



Bring energy to life

Annual Report and Accounts 2021/22



PRINCIPAL PARTNER
**COP26
PRESIDENCY
UK 2022**
DELIVERING THE
GLASGOW CLIMATE PACT

We see the future.
It's filled with infinite possibilities.
That's why we are...

Doing Right Now

Our vision is to be at the heart of a clean, fair and affordable energy future. Every day we do the right thing, find a better way, and make it happen.

We are working **right now** to deliver net zero and keep the network safe and reliable.



Read more about what we are 'Doing Right Now' to enable a clean energy transition in the case studies that feature throughout this report. You can identify these by looking for this icon.

Highlights

Group financial highlights

Statutory earnings per share
EPS (p)*

60.6p



Underlying EPS (p)*

65.3p



Group Return on Equity
(RoE) %

11.4%



* From continuing operations. Prior year comparatives restated for treatment of UK Gas Transmission as a discontinued operation.

Group operational highlights

Group safety performance
(lost time injuries per 100,000 hours
worked in 12-month period)

0.13



Scope 1 and 2 greenhouse
gas emissions
(CO₂ equivalent, m tonnes)

7.5



Employee
engagement (%)

81%



Further reading



Online report

The PDF of our Annual Report and Accounts 2021/22 includes a full search facility. You can find the document by visiting the 'About us' section at nationalgrid.com/investors/resources.



Responsible business

National Grid has published its annual Responsible Business Report (RBR). The RBR reports progress on the responsible business agenda, including towards the commitments made in our Responsible Business Charter (RBC). You can find both documents by visiting nationalgrid.com/responsibility.



Reporting currency

Our financial results are reported in sterling. We convert our US business results at the weighted average exchange rate during the year, which for 2021/22 was \$1.35 to £1 (2020/21: \$1.34 to £1).



QR codes

Throughout the report there are QR codes you can scan to view content online. Simply open the camera app on your smartphone to scan the code.



Further reading

Throughout this report you can find links to further detail within this document.



Front cover

The North Sea offers an incredible opportunity for the UK and our European neighbours to migrate to a cleaner energy system, as we increase connections to renewable energy sources from the North Sea.

We were excited to be a principal partner for COP26. COP stands for Conference of the Parties. You can read more about our involvement on pages 16 – 17.

For more information, visit nationalgrid.com/responsibility/environment/cop26.



Alternative performance measures

In addition to IFRS figures, management also uses a number of 'alternative measures' to assess performance. Definitions and reconciliations to statutory financial information can be found on pages 268 – 279. These measures are highlighted with the symbol above.



PwC Assured Data

Denotes information subject to limited assurance by PricewaterhouseCoopers LLP; see page 61 for full definition.

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Doing Right Now



Fossil-free future

We aim to fully eliminate fossil fuels from our US gas and electric systems, enabling the customers and communities we serve to meet their heating needs without using fossil fuels by 2050, if not sooner.

To achieve our ambition, we are proposing a hybrid approach, with a combination of electric heat pumps, fossil-free gas and hybrid gas-electric systems.

An aerial photograph of a city skyline at dusk. The foreground is dominated by a lush green park with a winding path and a small stream. In the middle ground, there are several multi-story residential or commercial buildings with lit windows. The background features a dense cluster of skyscrapers, some of which are illuminated. The sky is a deep blue with scattered white clouds.

Strategic Report

Business model

What we do

National Grid plc is one of the world's largest investor-owned energy utilities, committed to delivering electricity and gas safely, reliably and efficiently to the customers and communities we serve.



Further reading
Our business units on pages 50 – 55

Our business units

UK Electricity Transmission

We own and operate the high-voltage electricity transmission (ET) network in England and Wales.

UK Electricity Distribution

We own and operate the electricity distribution networks for the Midlands, the South West and South Wales. The combined network of Western Power Distribution (WPD), which became part of National Grid in June 2021, makes it the largest distribution network operator (DNO) group in the UK.

UK Gas Transmission*

On 27 March 2022, we announced the agreement for sale of a 60% stake in this business, which owns and operates the gas transmission network across Great Britain (including our UK metering business which previously formed part of NGV). The sale is subject to certain conditions.

UK Electricity System Operator

We operate as the electricity system operator (ESO) across Great Britain.

* Discontinued operations.

New England

We own and operate electricity transmission facilities and distribution networks across Massachusetts, New Hampshire and Vermont as well as gas distribution networks across Massachusetts. We sold our Rhode Island electricity transmission and gas and electricity distribution business (NECO) to PPL. The NECO Sale is expected to complete by the end of the first quarter of 2022/23.

New York

We own and operate electricity transmission facilities and distribution networks across upstate New York. We own and operate gas distribution networks across upstate New York, in New York City and on Long Island.

How we fit in the energy system

Generation

Generation is the production of electricity from fossil fuel and nuclear power stations, as well as renewable sources such as wind and solar. In the US, we own and operate electricity generation facilities on Long Island as well as wind and solar generation through our investment in the Emerald Joint Venture.

Electricity transmission

We are responsible for ensuring electricity is transported safely and efficiently from where it is produced, to reach homes and businesses reliably. We connect to industrial properties and distribution networks who deliver the electricity on to homes and commercial properties. We also facilitate the connection of generation assets to the transmission system.



We are also competing for large-scale electricity transmission projects across the US and the UK. To find out more, visit our website: nationalgrid.com/national-grid-ventures/what-we-do/competitive-transmission.



6,072

miles (9,768 kilometres) of electricity transmission cable and overhead lines
(2020/21: 6,240 miles; 10,042 kilometres)

2,939

miles (4,729 kilometres) of electricity transmission cable and overhead lines
(2020/21: 2,922 miles; 4,701 kilometres)

6,001

miles (9,655 kilometres) of electricity transmission cable and overhead lines
(2020/21: 6,050 miles; 9,734 kilometres)



4,740*

miles (7,630 kilometres) of high-pressure gas pipe
(2020/21: 4,740 miles; 7,630 kilometres)

Renewable energy

We are working with our partners to accelerate the development of our clean-energy future. In support of this goal, we've made significant investments in the US in large-scale renewable energy projects, including wind, solar and battery storage.

Visit our website to find out more information: nationalgrid.com/national-grid-ventures/what-we-do/renewable-energy.



Electricity System Operator

We are responsible for making sure the supply of and demand for electricity are balanced in real time every day across Great Britain.

In the US, similar services are provided by independent system operators.



Gas transmission

We are responsible for making sure Great Britain's gas is transported safely and efficiently from where it is produced, to reach homes and businesses reliably. As the gas system operator, we are also responsible for ensuring supply and demand are balanced in real time every day.



Some of our US businesses are not subject to state or federal ratemaking authority. This includes our interests in the New York Transco and Millennium Pipeline Company.

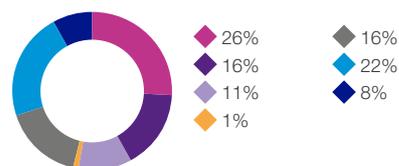


National Grid Ventures and Other activities

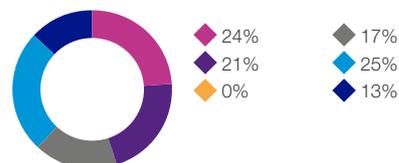
National Grid Ventures (NGV), which operates separately from our core regulated units, is focused on competitive markets across the UK and US. Its portfolio includes electricity interconnectors, liquefied natural gas (LNG) storage and regasification, large-scale renewable generation, conventional generation and competitive transmission.

Other activities primarily relate to National Grid Partners (NGP), the venture investment and innovation arm of National Grid, as well as UK property, insurance and corporate activities.

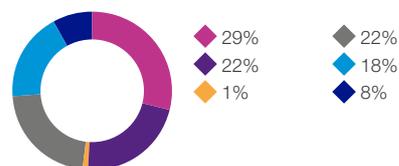
Regulatory asset value (RAV), rate base and other assets (%)



Statutory operating profit (%)*



Underlying operating profit (%)*



* From continuing operations.

Gas distribution

In the US, we deliver gas safely and reliably to millions of consumers connected to our distribution systems. Some of our customers pay us for distribution and gas supply costs. Where they choose to buy gas from third parties, they pay us for distribution only.

14,397

miles (23,165 kilometres) of gas pipelines (2020/21: 14,372 miles; 23,125 kilometres)

22,359

miles (35,975 kilometres) of gas pipelines (2020/21: 21,388 miles; 34,413 kilometres)

Electricity distribution

We own and operate the power lines and infrastructure that connect the transmission network to the properties of individual consumers. Distribution networks convert high-voltage electricity generated by large power stations, and delivered through the transmission network, to lower voltages. This is then delivered safely and reliably into homes and businesses via our networks.

141,261

miles (227,337 kilometres) of electricity distribution circuits (2020/21: 141,081 miles; 227,000 kilometres)

Electricity interconnection

Interconnectors are high-voltage cables used to connect the electricity systems of neighbouring countries. They allow us to trade excess power, such as renewable energy created by the sun, wind and water, between different countries.

We already have interconnectors linking us to France, Belgium, Norway and the Netherlands, and each year they power five million homes. We're currently working on another interconnector to link us with Denmark.

6.4 GW

capacity of interconnectors in operation (2020/21: 5 GW)

Storage

Grain LNG is one of three import terminals in the UK. Our world-class facility delivers the highest standards of performance for our customers.

We import LNG from a number of countries and also own storage facilities in the US.

63 ships

unloaded at the Grain LNG terminal (2020/21: 49 ships)

24,755

miles (39,831 kilometres) of electricity distribution circuits (2020/21: 24,706 miles; 39,752 kilometres)

44,536

miles (71,658 kilometres) of electricity distribution circuits (2020/21: 44,063 miles; 70,897 kilometres)

Innovation

We created NGP which is involved in incubating and investing in startups at the intersection of energy and emerging tech, launching new businesses from scratch, business development, and infusing an entrepreneurial culture into National Grid. NGP aims to create a smarter, renewable future.

How we operate

Our resources and relationships

Internal resources

Physical assets

We own electricity and gas networks that transmit energy over long distances from where it is produced, together with low voltage local networks that distribute energy to the consumers who rely on it. These networks are built to last for many decades and account for the vast majority of our asset base. We also own five subsea electricity interconnectors, with a further subsea cable to Denmark under construction, as well as LNG importation facilities and large-scale renewables in the US.

Funding

We fund our business through a combination of shareholder equity and long- and short-term debt. We maintain an appropriate mix of the two and manage financial risks prudently.

Colleagues

Our highly skilled, dedicated colleagues have a strong public-service ethos. They manage and maintain the physical energy infrastructure, and assist and develop the many stakeholder relationships crucial to the Company's success.

Strong stakeholder relationships

Our business relies on strong relationships with all our stakeholders. These include:

- Our customers, who depend on us to connect them to the energy they use and who (through a small portion of their energy bills) pay to use our networks. This also includes (in the case of our transmission businesses) the electricity generators and gas suppliers who own the electricity that flows through our cables and gas pipes.
- Our suppliers, who have complementary experience, skills and resources and with whom we agree mutually beneficial contractual arrangements and, wherever possible, take advantage of economies of scale and use sustainable and global sourcing opportunities.
- National and regional governments, local communities, and business and domestic consumers of the energy we transport.
- The economic regulators who set the prices we can charge for providing an economic, efficient and non-discriminatory service as well as the government agencies responsible for health, safety and environmental standards.



Further reading

Our stakeholders on pages 56 – 59.

Our strategy



Enable the energy transition for all



Deliver for customers efficiently



Grow our organisational capability



Empower colleagues for great performance

Why does this matter? Benefits to National Grid

Financial strength

By managing our operations efficiently, safely and for the long term, we generate substantial cash flows. This, coupled with long-term debt financing, enables us to invest in growing our asset base and fund our dividends.

Investment

Efficient investment in our networks will deliver strong and sustainable growth in our regulated asset base over the long term.

Lower capital costs

Using innovation and flexibility initiatives, we look to reduce the amount of network reinforcement costs that would otherwise be needed to deliver the additional capacity required for net zero.

Shareholder returns

Our dividend policy, approved by the Board in March 2021, is to deliver annual dividend per share growth in line with the rate of CPIH inflation. Our dividend has grown consistently for more than 20 years.

We rely on our internal resources and our strong relationships which we use to do business, drawing on our technical expertise and culture in order to deliver value for our stakeholders and for wider society.

How we create value

Our technical expertise

We combine our extensive skills, knowledge and capabilities with innovation to ensure we continuously create value for shareholders and wider stakeholders alike.

Our expertise includes:

Asset management

We invest in and maintain our assets across their life as cost effectively and efficiently as possible.

Engineering

The skills of our engineers are vital in performing safely, efficiently, reliably and sustainably for all our businesses. Our colleagues strive to:

- find practical and innovative solutions to complex problems;
- employ risk-based decision making; and
- adopt common approaches and make continuous improvements.

Our engineering expertise supports the provision of a reliable network.

Capital delivery

We add value for our stakeholders by ensuring safe and effective delivery of large and complex infrastructure projects, ranging from large portfolios of smaller works to more substantial standalone projects.

Our culture

National Grid's culture is the values, beliefs and behaviours that characterise our Company and guide what we do, so we can respond as the energy transition accelerates.

We maintain high standards of ethical business. We also promote behaviours that are aligned with our values and culture by recognising our employees through a Company-wide reward system. This supports both what they achieve and how they have achieved it.

Strategy and risk management

As the energy industry continues its transition to a cleaner future, our strategy articulates our priorities clearly, while positioning our business to continue to bring long-term economic benefits into the regions where we operate.

We have well-established governance structures that include comprehensive risk management, strong controls and financial discipline.



Further reading

Our strategy on pages 20 – 21.

Innovation on pages 22 – 23.

Internal control and risk management on pages 28 – 32.

Our commitment to being a responsible business on pages 60 – 69.

Our values on page 65.

The value we create



Customers

We aim to deliver safe, reliable, resilient and affordable energy to customers in the communities we serve, driving operational excellence and financial discipline to keep bills affordable for our customers.



Investors

We aim to be a low-risk, dependable investment proposition, focused on generating shareholder value through dividends, supported by asset growth from investing in essential assets under primarily regulated market conditions, and servicing long-term sustainable consumer-led demands.



Our colleagues

We aim to create an environment where our colleagues can make a positive contribution, develop their careers and reach their full potential.



Contractors and suppliers

We maintain responsible and efficient supply chains where we align our interests, and those of our suppliers, with the interests of customers.



Communities and governments

We help national and regional governments formulate and deliver their energy policies and commitments. The taxes we pay help fund essential public services. We have an important role to play in sustainability, enabling the transition to a low-carbon future.



Economic, health, safety and environmental regulators

Through constructive, transparent engagement and consistent, reliable fulfilment of our commitments, we build trust with our regulators.

Why does this matter? Benefits to society

Achieving net zero

In addition to our own commitment to reduce our Greenhouse Gas (GHG) emissions to net zero by 2050, we are working with governments and regulators to help them meet their carbon reduction targets.

Communities

The transition to clean energy must be affordable to all, and we will play our role in ensuring no one is left behind, helping the places where we operate reach their emissions targets.

Job creation

We are providing employment opportunities and supporting our colleagues in building the skills necessary to build a net zero energy system.

Tax contribution

We recognise that our tax contribution supports public services and the wider economy and we endeavour to pay the right amount of tax, at the right time, in accordance with relevant tax laws.

Our unique investment proposition

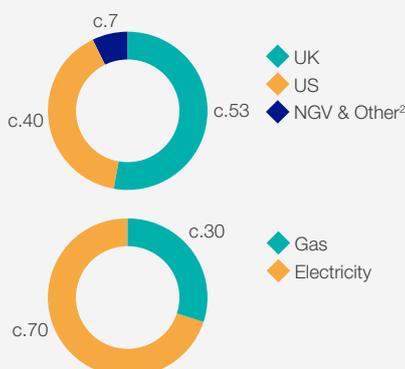
Our long-term value creation is underpinned by significant growth opportunity across the business, driven by our vital role as The Energy Transition Company

Reshaped portfolio

We've reshaped the portfolio and organisation for the opportunities ahead of us. These moves will increase our exposure to electricity, enhancing the long-term growth profile of the Group and better aligning to the energy transition.

Geographic and regulatory diversity

National Grid asset base post transactions¹



1. Calculated as an approximate proportion of actual 2021/22 asset base as at year end, including WPD, excluding NECO sale and 60% interest in UK Gas Transmission and Metering.
2. Includes NGV, UK property, insurance and corporate activities.

Delivering growth

Our forecast of £30 – 35 billion of capital investment between 2021/22 and 2025/26 will drive asset growth of 6 – 8% on average per annum (CAGR).

Over two thirds of this is already committed and visible through rate settlements and in our National Grid Ventures business.

History of strong financial performance



Capital investment £bn

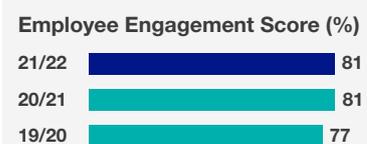
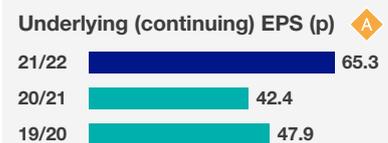
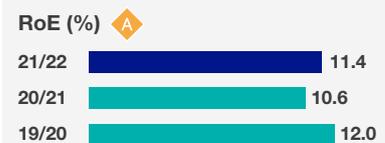


Strong operational and financial performance

We have a strong track record of delivering efficiently, and our new operating model will deliver a step change in productivity improvements.

Alongside our asset growth, we forecast to grow our underlying EPS by 5 – 7% compound annual growth rate (CAGR).

History of strong operational and financial performance



Our vision for our future energy networks aligns with the global push towards net zero, and demonstrates the vital role we play. And with that vision, as we look to the decades ahead, we believe the scale of opportunity across the business is significant.

1. Our pivot to electricity brings visibility and certainty of growth, right now and out to 2050.
2. Our scale magnifies our vital role at the heart of the energy transition.
3. We have a strong track record of delivering growth.
4. Green capex¹ in decarbonisation of energy systems, will make up around £24bn of our investment between 2021/22 and 2025/26.

1. Capital expenditure invested in decarbonisation of the energy systems and considered to be aligned with the principles of the EU Taxonomy legislation at the date of reporting.

Five-year outlook 2021/22 – 2025/26

Capital investment

c.£8bn

UK Electricity Transmission

c.£17bn

New York & New England regulated businesses

c.£5bn

UK Electricity Distribution

c.£2 – 3bn

NGV

Group asset growth

6 – 8% CAGR

Gearing

**Peaks in 2021/22, settles slightly above 70%.
Credit metrics within current rating band**

Earnings Per Share (EPS)

5 – 7% CAGR

Dividend Per Share (DPS)

Growth in line with CPIH

£30 – 35bn

Resilient balance sheet

We have visibility to maintain a resilient balance sheet and stable leverage (once all three transactions are complete), to fund asset growth of 6 – 8% on average per annum (CAGR) over the next five years.

Over the next five years we expect senior debt capacity to increase by £2 – 3 billion annually.

Balance sheet metrics

8.9% **4.7x**

RCF/Adjusted debt **A**

>7.0% Moody's rating threshold

FFO Interest cover **A**

>3.5x Moody's rating threshold (2020/21: 4.5x)

We monitor RCF/adjusted net debt in order to ensure the Group is generating sufficient cash to service its debts, consistent with maintaining a strong investment-grade credit rating. We calculate RCF/adjusted net debt applying the methodology used by the credit rating agency, Moody's Investors Services.

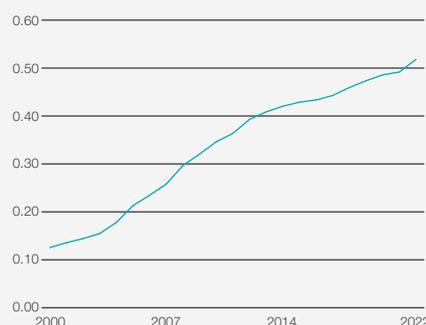
Progressive dividend

We have consistently grown our dividend for more than 20 years.

Full-year dividend 50.97 pence p/share in line with policy, 49.16 pence p/share in the prior period.

As our UK regulatory models move from Retail Price Index (RPI) to the Consumer Prices Index including Owner Occupiers' Housing Costs (CPIH), we aim from 2021/22 to grow the annual dividend per share in line with UK CPIH.

Dividend per share (DPS) (p)



Note: 2000 – 2010 DPS adjusted for 2010 Rights Issue, excludes special dividends.

Our responsible business

We continue to be vocal advocates for a fair and equitable energy transition across wider public policy.

We are a COP26 principal partner and are advocates of transforming commitments into action.

Our Responsible Business pillars

Communities

Deliver energy in a fair and affordable way to the communities we serve.

The economy

Work across our supply chains to ensure that, together, we reflect the diversity of the communities we serve and respond to the economic needs of those communities.

Governance

Achieve 50% diversity¹ in our Group Executive Committee

Our colleagues

Achieve 50% diversity¹ in all our new talent programmes by 2025.

The environment

Accelerate our net zero targets wherever possible.

1. A diverse employee is defined as a colleague who identifies as female, as a person with a disability, as gay, bi-sexual or lesbian or from an under-represented ethnic/racially diverse background.

Chair's statement

▶ Paula Rospot Reynolds
Chair



“National Grid finished the fiscal year in a position of strength. As nations now focus on energy security and affordability, as well as decarbonisation, we embrace our role in delivering the energy system of the future.”

The events of the past year – indeed, the past months – have tested the resolve, culture and resilience of all businesses. As I write this first letter to you in my role as Chair, Ukraine is engulfed in a brutal confrontation with Russia. At National Grid, we supported and adjusted quickly to the Russian sanctions put in place by the UK government. We have also been engaging with the UK government on assuring long-term security of energy supply, including through accelerating the roll-out of renewables. In the US, we continue to work on an agenda of decarbonisation, ranging from new high-voltage electric transmission infrastructure for delivery of low- or zero-carbon resources to operating one of that nation's first hydrogen blending projects. In both countries, we undertake our efforts against the backdrop of elevated energy prices for our customers and heightened concerns about balancing the costs of system enhancements with the affordability of these improvements.

It is a privilege to be the first American to serve as the Chair of National Grid, an iconic industrial company. National Grid has a proud and longstanding heritage, but it is also a business that has long been focused firmly on the future. We didn't start the process of being a state-of-the-art energy system yesterday. For more than two decades we have been working to decarbonise energy. We have been iterating and experimenting with our fulfilment capabilities – with the digital grid, with hydrogen, with multipurpose interconnectors. And we will keep iterating and collaborating until we achieve the necessary levels of performance to assure you that clean energy delivery will be utterly reliable and affordable as well.

At National Grid, we are witnessing the increasing intensity of impatience in society in its pursuit to see changes in the contours of our energy system. We are working on multiple fronts to deliver infrastructure and service more quickly and more cleanly than ever before, including: digitalisation of business systems and operations to ensure service reliability and rapid response time; increased cyber security barriers to protect our critical national infrastructure; and use of advanced technologies, such as artificial intelligence (AI), to optimise our operations. And we are focused on the best possible delivery on the front lines. Perhaps you have noticed that storms are more frequent and severe. Meanwhile, society is dependent on rapid restoration of service. We live in a connected world and none of us easily tolerates a power outage. My National Grid colleagues are thus working in increasingly harsh weather conditions to reconnect customers in ever shorter response times. This is complicated by the fact that we are managing the increased complexity of the grid itself, as renewables become a larger part of the generation mix in both countries.

These are among the issues of today and tomorrow. As Chair, my role is to ensure our governance both challenges and supports decision making that will ultimately lead to a decarbonised and digital future. Our business reorganisation, the refresh of the Board and the thoughtful adjustment of our investment mix are intended to meet these challenges.

A Board for the future

As you will note, several distinguished Board members have reached the ends of their terms. Sir Peter Gershon, Dr Paul Golby, Mark Williamson, and Jonathan Dawson have all served nine-year terms. In addition, Amanda Mesler, who has been a member of our Board for the last four years, has decided not to stand for re-election as her career in technology takes her in some different directions. On behalf of my Board colleagues, I express my appreciation to all of them.

Nevertheless, from this loss comes opportunity. We are fortunate to have recruited five new Directors who bring fresh perspectives and experience to the Board. Ian Livingston, Tony Wood, Martha Wyrsh, Anne Robinson and Iain MacKay, bring strategic thoughtfulness, engagement, constructive challenge, independence and gravitas to tackling the issues we face.

Operating with purpose

Moments of societal reckoning over recent times have further cemented my belief that National Grid must respond as a responsible business. It is clear: we are here to serve. Our sense of the larger purpose we play in society helps us keep doing the right thing at the heart of our decision making. As I have travelled around the National Grid system in both countries, I am heartened by the ethos of our people. I have also seen this ethos of community engagement first-hand in the work that is done by Grid for Good, Project C and our Grid Employability programmes, to name but a few examples. Our RBR, which you can find at nationalgrid.com/responsibility, provides an update on our excellent progress to date on key commitments.

Along with purpose comes partnership. Working with regulators, customers, communities, stakeholders and business partners is key to our long-term health as a company. I have appreciated the candour of those of you with whom I have met in the past year. This input – unvarnished and honest exchanges – helps guide the Board deliberations.

Solutions to the challenges of our time must be rooted in an overarching sense that we are in this together, working for the collective good. Geopolitical upheaval only deepens the sense within society that we must embrace change urgently. Across the UK and US, we are working with governments and communities to determine the best way forward for the delivery of net zero. In recognising that National Grid must change,

I see that governments, regulators and stakeholders are grappling with how to drive progress as well. I would offer the observation that we all need to break old habits and get on with the business of change.

Looking forward

In the previous fiscal year, we set a strategic course to pivot to a greater focus on electricity as the energy mix of the future. With the acquisition of WPD and the announced sale of a majority stake of our UK natural gas transmission business, our portfolio is changing. The Board will continue to assess the businesses we will participate and grow in as the energy landscape evolves. For example, we welcome the UK government moving forward with the development of a Future System Operator (FSO). This initiative is expected to see us divest our ESO in the future. Similarly, our investments in the various interconnectors which link the UK to continental Europe and our partnership with RWE in the New York Bight auction for offshore wind, are examples of investments where we are leaning into the future energy system.

As you will note in the Notice of Meeting which accompanies this Annual Report, our climate transition plan is being put to a vote by shareholders at our 2022 AGM. I hope you will find that this plan provides tangible evidence of National Grid's resolve to move to net zero, including metrics that facilitate tracking of our progress. We ask for your support of our Climate Transition Plan, your Board of Directors, and various other business matters on which you are asked to vote.

In closing, I would like to recognise our National Grid colleagues with this oft-repeated phrase: if it were easy, everyone would be doing it. The Board recognises your singular efforts, your dedication and your tenacity. Your enthusiasm for delivering net zero and a fair energy transition is, I believe, unparalleled. Thank you for living our values and for Doing Right Now.



Paula Rosput Reynolds
Chair

Final dividend of

33.76p

per share proposed to be paid
on 17 August 2022

Full-year dividend (pence per share)

21/22	50.97
20/21	49.16
19/20	48.57
18/19	47.34
17/18	45.93

The 2022 Annual General Meeting (AGM) of National Grid plc will be held as a hybrid event at 10.00am on Monday 11 July 2022. More details on the arrangements for this year's AGM and how to view the live webcast of the AGM vote and attend virtually can be found on our website in the Investors section at: nationalgrid.com/investors.

Chief Executive's review

▶ John Pettigrew
Chief Executive



“We will enhance our role in the energy transition and drive long-term shareholder value.”

Context in which we are operating

Over the last 12 months, as the world took tentative steps out of the depths of the COVID-19 pandemic, it also witnessed unprecedented climate events, an increasingly divided geopolitical landscape, and – in the UK and US – rising costs of living. As I write, we continue to witness terrible events in Ukraine. The combined turmoil and change of the past year means that all three points of the energy trilemma (security, affordability and sustainability) are now in sharp focus as one.

In a rapidly changing world, it is more important than ever that our vision is clear and our journey to achieve it is well executed. National Grid will be at the heart of a clean, fair and affordable energy future.

There is no doubt that rising gas prices and a higher cost of energy in the UK and US have highlighted the challenge of affordability. Our political stakeholders in all jurisdictions are also grappling with this challenge, and we continue to take a partnership approach with both

governments and regulators to deliver an energy transition that leaves nobody behind. Whilst we do not have control over energy prices, we are playing our part by innovating at speed on projects and making significant capital investment to bring cheaper, greener energy to our customers.

I was particularly pleased to see clean energy sitting at the heart of the British Energy Security strategy – net zero is a clear route to a reduction in consumer bills over the long term, increased energy independence and lower carbon emissions. As a sector, we must now work at pace to deliver the ambitious targets set and remain conscious, too, of other opportunities to reach our collective goals, such as increased energy efficiency.

In the UK, we have been working closely with government, industry and the regulator to create the FSO that enables long-term holistic thinking, drives progress towards net zero, and lays the foundations for the regulatory reform necessary to deliver the energy system of the future. As announced in April 2022, the ESO is expected to transfer out of National Grid to become part of the newly created FSO by 2024. We will continue to work closely with all relevant parties to ensure a smooth transition, subject to parliamentary approval and conclusion of the transaction process.

In a fast-moving world, we must remember that the challenge of reaching net zero cannot be underestimated, and significant policy and regulatory change will be needed to get there. We are committed to working together with all our stakeholders to create the right policy and regulatory frameworks to deliver the investment needed at the lowest long-term cost to consumers in all our markets.

Business highlights

Delivering for our customers remains my key focus and I am very clear that this must underpin all that we do. A clear example is our vision for a fossil-free future in the US, launched in April 2022, which places consumer choice and affordability at the heart of fighting climate change.

This vision to fully eliminate fossil fuels from our US gas networks, replacing it with renewable natural gas and green hydrogen, will enable the customers and communities we serve to meet their heating needs without using fossil fuels by 2050, if not sooner. Combined with targeted electrification and enhanced energy efficiency, a 100% fossil-free gas network can deliver a clean energy future that is more affordable and more reliable to more than 20 million people across New York and Massachusetts.

We have made significant progress throughout the year towards a clean energy future in the US. In December, we launched a joint project with the town of Hempstead to build one of the first and largest clean hydrogen projects in the US. The HyGrid project, on Long Island, will blend green hydrogen into the existing distribution system to heat approximately 800 homes and fuel 10 municipal vehicles.

A key highlight of the year for me was National Grid's role as a Principal Partner of COP26. This enabled us to drive action on the fight against climate change more directly than ever before. From meeting with world leaders, to hosting the launch of the global Green Grids Initiative, and sharing our work to enable clean transport, it was a unique opportunity to discuss our learnings with delegations from across the globe and collaborate on how best we can work together to accelerate action.

It is important we match talking with doing. Since COP26, we have had new Science Based Targets approved; with both our UK ET and ED businesses and the ESO limiting their greenhouse gas emissions to a 1.5°C warming scenario. And against a 1990 baseline, I can now report our carbon emissions are down by 65% across the Group.

The year also saw us deliver on the strategic transactions we announced 12 months ago. The transactions represented a strategic pivot for National Grid and underlined our belief that the journey to net zero will see increased electrification across the UK and US. The Group expects the NECO Sale to complete by the end of Q1 2022/23.

The year saw us make good progress on regulatory matters. In the first half, the Competition Markets Authority (CMA) upheld part of our appeal on RIIO-T2, which saw the removal of the outperformance wedge. In the US, new rate agreements for KEDNY-KEDLI, Massachusetts Gas and Niagara Mohawk were agreed during the year, giving us long-term visibility.

Our National Grid Ventures business continues to deliver clean, green energy through its interconnectors. We completed our fifth interconnector, North Sea Link (NSL), which connects the UK with Norway and is the world's longest subsea interconnector. NSL, which is a joint venture with Norwegian system operator Statnett, can provide enough clean electricity to power 1.4 million homes.

The fire at our IFA interconnector saw a 50% reduction in its capacity. However, I am pleased that our team's fast response and focus on recovery means we now expect the IFA interconnector to return to full service in December 2022, significantly earlier than planned.

WPD, our electricity distribution business, which will shortly be rebranding under the National Grid name, has submitted a highly ambitious business plan for 2023 – 2028 outlining £6.7 billion of investment to drive the pathway to net zero for our customers in the Midlands, South Wales and the South West. This will act as an additional £1.4 billion of investment from present-day levels, whilst maintaining affordability for our customers.

We have reported good operational performance in a year of significant strategic change. We have reported a strong set of results. In May, Ofgem agreed to our request to pay £200 million of interconnector profits back ahead of the planned timeframe, as we took action to lower bills for consumers.

We are investing around £24 billion over the next five years directly into decarbonising energy networks, starting now. This is measured in accordance with the EU taxonomy, and excludes 'clean' spend in areas such as connecting nuclear power and lowering methane emissions through gas pipeline replacement. In every sense, this investment cements our position as The Energy Transition Company.

Doing Right Now

National Grid is a responsible business, because it is the right thing to do. Our RBR, which is published alongside the Annual Report, details our progress to date on the commitments we set out in our RBC.

Communities sit at the heart of our RBC, and I am delighted that our Grid for Good initiative has positively impacted the lives of thousands of young people to date, with participation from hundreds of National Grid volunteers. Grid for Good was created to drive lasting and positive change for disadvantaged young people and we are well on the way to achieving our goal of 125,000 volunteering hours by 2030.

Diversity is critical to business success and I am pleased to report this year that we have no material gender pay gap in the UK business. Of course, this is just one measure, and we recognise that there is more work to do to bring greater diversity to all levels at National Grid.

Key highlights in 2021/22

11.4%

RoE ▲

£6.7bn

investment in critical infrastructure for the Group (continuing operations) ▲

In the US, our pay gap sits at 12.6% and we continue to address this as a matter of high priority. I am very clear that we can achieve more with a diverse organisation, and it is vital that we represent the communities we serve.

Over the last year, I am pleased to say we have continued to deliver energy reliably, safely and efficiently for our customers in all jurisdictions, and continue to focus on our safety performance.

Of course, it would not be possible to deliver these results without the hard work of the teams across the business. I would like to take this opportunity to say a sincere and heartfelt thank you to all National Grid colleagues, who, despite living through the most extraordinary and challenging of times, continue to serve the Company with hard work, dedication and outstanding skill.

Looking ahead

As we look ahead, we do so with optimism. National Grid is uniquely positioned as The Energy Transition Company, at a time when climate goals, customer demands and geopolitics align on the imperative need to fully decarbonise our economies.

In the UK, we will support the government in delivering its British Energy Security Strategy and the ambitious target of delivering 50 GW of offshore wind by 2030, including up to 5 GW floating wind, by developing and delivering transmission project proposals in alignment with the national blueprint. We will work with government and regulators to reform the consenting and regulatory frameworks to deliver the unprecedented levels of new transmission capacity required to deliver the strategy much faster than under the current arrangements. We will complete the integration of WPD into our new Electricity Distribution business and seek a successful outcome in our RIIO-ED2 regulatory process that gives us the flexibility to invest in our distribution networks to support the Strategy and the expected growth in heat pumps, electric vehicles and solar generation.

In the US, we will continue the work started to make fossil-free gas a reality on our networks by supporting legislative and regulatory policies to grow fossil-free gas, developing voluntary tariffs for customer participation in fossil-free gas offerings and running neighbourhood pilots for green H₂ network blending, networked geothermal, and targeted electrification of heating.

National Grid has a key strategic role to play in delivering the legacy of COP26 and we will become even more vocal on this over the next 12 months. We are working side by side with the

Q&A

How can we solve the huge challenge of achieving net zero?

Partnership and collaboration hold the key to unlocking some of the biggest global challenges we face. Communities, government, regulators and industry all have a critical role to play in reaching net zero and it is only by working together and challenging each other to be bolder, more innovative, and to deliver at pace that we will achieve this. For the industry, delivering the energy system of the future, while operating and safeguarding the energy system of today, will require a huge shift in mindset. We must rise to this challenge and embrace the opportunity we have to create a fair and affordable future for all.

Why did National Grid feel it was important to be a principal partner of COP26?

Climate change is the biggest challenge we will face as a society – and there is a ticking clock. National Grid is uniquely positioned to lead the energy transition across the UK and Northeast US, but COP26 gave us the opportunity to go further and to collaborate and learn from partners on a global scale.

Why should I invest in National Grid?

The fundamentals of our business are strong; they underpin long-term value creation. We are at the forefront of the green revolution. There is huge business opportunity and we are fully

aligned with government and societal demands to deliver greener, cleaner energy. We are Doing Right Now.

Can you share an update on the transactions?

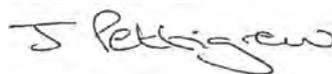
The transactions that we announced in March 2021 and have implemented over the past 12 months represented a strategic pivot for the Company. The acquisition of WPD in the UK, the sale of Rhode Island in the US and an agreement to sell a majority stake in Gas Transmission in the UK, will leave our business split equally between the UK and the US, and with a focus that is 70% on electricity and 30% on gas. This is aligned with our view of the energy transition – gas will continue to have a key role to play, representing around 30% of the energy system by 2050 as we see increased electrification in the journey to net zero.

As CEO, what are you most proud of?

My colleagues. Living and working through a global pandemic has been challenging for everyone in different ways. I am very proud of the way everyone working at National Grid has carried out their duties with skill and professionalism in the most difficult and extraordinary circumstances to keep the lights on and the gas flowing for our customers.

UK, India and US governments on the Green Grids Initiative to accelerate the decarbonisation of electricity grids globally; we are engaged in the Glasgow Breakthroughs to share learning and drive progress in different sectors; and we will share our views on progress and policy needed globally. We must now move fast to seize the opportunity this decade to keep 1.5°C in sight.

We are leading a clean, fair and affordable energy transition across the jurisdictions we serve, and we do so with pride. No one will be left behind. Our pace will accelerate, our efforts will increase, and our action will be bold. The business is positioned for long-term success.



John Pettigrew
Chief Executive



[Scan here to view our video](#)

Our business environment

As well as managing the business through the COVID-19 pandemic, rising living costs, and the conflict in Ukraine, our societal ambition remains to achieve net zero. We will work with governments and regulators in the UK and US to help them meet their own carbon-reduction targets in a fair and affordable way.



Fairness and affordability

We are committed to delivering energy safely, reliably and affordably to the communities we serve. As well as affordability, we will play our role in ensuring no one is left behind in the short term due to increased energy prices, or in the longer-term transition to clean energy.

£30 – 35bn

2020/21 – 2025/26 investment across our UK and US businesses

2021/22 developments

UK

Supply and demand mismatches due to factors such as COVID-19 and the conflict in Ukraine have driven surges in energy prices that have challenged many customers; 2021 saw a 330% rise in European gas prices.

In February 2022, Ofgem announced a 54% increase in the energy price cap, caused by the record rise in wholesale energy prices. National Energy Action has anticipated that the number of households in fuel poverty will rise from 4.5 million to around 6 million because of the increased cap.

As a result, the Treasury announced that households will receive up to £350 of government support to help protect them from the rising energy costs. This includes a £200 discount on electricity bills for all consumers from October 2022, and a £150 council tax rebate from April for 80% of council taxpayers in England based on their tax bands.

US

Economy-wide inflation has been amplified in the energy sector. The energy price index rose 26% from February 2021 to February 2022, with all major energy component indexes increasing; natural gas and electricity rose 24% and 9%, respectively.

COVID-19 also brought serious economic hardship to many of our customers, elevating affordability concerns even further, and many moratoria on disconnection for non-payment have expired.

In response, Congress's American Rescue Plan included an additional \$4.5 billion in Low Income Home Energy Assistance Program funding, including \$535 million for New York and \$187 million for Massachusetts.

Our response

- We donated £1 million to support the relief effort in Ukraine, split equally between the British Red Cross, the United Nations refugee agency, and UNICEF.
- We published our first Responsible Business Report in June 2021, providing an update on commitments in our Responsible Business Charter across five key areas: the environment, our communities, our people, the economy and our governance.
- In the UK, our Grid for Good Programme is in its second year of having a positive impact on socio-economically disadvantaged young people during this economic downturn. To date we have helped over 2,750 young people and have over 1,000 National Grid employees registered as volunteers.
- Our Electric Transmission business in the UK leveraged new technologies such as deploying soil stabilisation technology that decreased road-building costs by 30% for the Hinkley Connection Project or using drones to inspect overhead power line networks at lower cost and hazard.
- WPD announced a £500,000 fund to help those in fuel poverty through the 2021/22 winter period, as part of a wider annual £1 million Community Matters Fund. The Fund supported more than 79 grassroots organisations and local authorities, saving an estimated £2 million for 29,000 people in our communities.
- We launched Project C, our community engagement and neighbourhood development programme, across our New York service area. Company employees volunteered at food banks, Habitat for Humanity and Meals on Wheels, and stocked student backpacks and food warehouses, supplied PPE, cleaned up neighbourhoods and parks, offered energy affordability solutions, and much more.
- We gained approval from the New York Public Service Commission in January 2022 for our Expanded Solar for All programme through which we will share approximately \$800,000 in community solar savings per month with 160,000 low-income to moderate-income customers, the largest such programme in the country.



Net zero

We are focused on delivering the energy transition while balancing key societal issues for the regions in which we operate. We are continuing to progress towards our own net zero commitment to reduce our greenhouse gas emissions to net zero by 2050. In this 'critical decade' (2020 – 2030) for climate action, we are committed to working with governments and regulators in the UK and US to help them meet their carbon reduction targets.

Net zero

emissions commitment by 2050

2.5 GW

new renewable energy connected to our transmission and distribution grids in 2021/22

2021/22 developments

UK

Along with hosting COP26, the UK has made a binding commitment to net zero emissions by 2050. Additionally, it committed to phasing out inefficient fossil-fuel subsidies in hopes of limiting global temperature rise to 1.5°C.

In April 2022, in response to the war in Ukraine, the UK increased its ambition further by publishing the British Energy Security Strategy with the vision to produce 95% of electricity from low carbon sources by 2030. It included targets for 50 GW of wind by 2030, 70 GW of solar by 2035, and an additional 24 GW of nuclear by 2050. The strategy highlighted the critical role of network infrastructure in delivering on its ambitions, including recognising the need for a national planning regime and expedited approvals processes.

The UK's carbon intensity dropped to a record-low 39 gCO₂ on 5 April 2021. On that day, over three quarters of the UK's power came from zero-carbon sources: 39% wind, 21% solar, and 16% nuclear.

US

The Biden Administration continued to make climate change a top priority for the federal government.

The \$1 trillion Infrastructure Investment and Jobs Act was passed, providing roughly \$550 billion of new federal funding for roads, bridges, transit and other physical infrastructure programmes, and contained several National Grid priorities.

The Biden Administration committed the US to the Global Methane Pledge at COP26 to cut emissions 30% by 2030.

Offshore wind is a major growth focus for the Biden Administration, with a 30 GW goal by 2030 and 110 GW by 2050.

By 2030, New York is targeting 10 GW of solar, 9 GW of offshore wind, and 8 GW of onshore wind, and recently doubled its storage goal to 6 GW. Massachusetts' goal is to have 8 GW of solar, 4 GW of offshore wind, and 2.8 GW of storage by 2030.



National Grid booth at COP26 in Glasgow, Scotland, UK

Our response

- We sponsored COP26 as a principal partner, leading the conversation and working closely with the UK government and other sponsors to create a successful and ambitious climate change conference in November 2021.
- In April 2021, our commitments to reduce our emissions in line with climate science were approved by the United Nations' Science Based Targets initiative (SBTi). The targets we have set are consistent with the reductions required to keep warming to well below 2°C. We have also identified where we can accelerate our targets further.
- We worked with the Electric Power Research Institute, the Gas Technology Institute and other utilities to sponsor the Low-Carbon Resources Initiative to accelerate the development and demonstration of low-carbon and zero-carbon energy technologies.
- With 60% of all offshore wind developments in the UK planning to bring their energy onshore through the East Coast, we progressed projects such as the one in Yorkshire Green to increase capacity and relieve constraints on the network.
- We worked with industry players to support decarbonisation projects in heavy industry in Humber and Teeside. The East Coast Cluster won a bid to be one of the UK's first two industrial carbon capture clusters, and it has the potential to transport and store 50% of all UK industry carbon emissions securely, up to 27 million tonnes of CO₂ emissions a year by 2030.
- We worked with Hitachi Energy in a pilot project at Richborough Substation in Kent to replace sulphur hexafluoride (SF₆) gas with a greener alternative. This change forms part of our ambition to reduce SF₆ emissions by 50% by 2030 and remove SF₆ gas from our electricity assets by 2050.
- WPD published an environment strategy in April 2021 that details commitments to ensure environmental responsibility underpins all its activities in RIIO-ED2 and beyond. It provides an overarching pathway to achieving net zero by 2028 (excluding network losses), ahead of the government's target date of 2050.
- We announced our vision for a fossil-free future, fully eliminating fossil fuels from our US gas and electric systems, enabling the customers and communities we serve to meet their heating needs without using fossil fuels by 2050. Our plan is based on energy-efficient buildings, a 100% fossil-free gas network, hybrid electric-gas heating systems, and targeted electrification and networked geothermal.
- We joined seven major US utilities in the Electric Highway Coalition, which will enable more electric-vehicle charging stations along highways across the US.
- In June 2021, we commenced operations of two solar projects totalling 40 MW in Michigan. These employed over 150 workers from communities within 100 miles of each site during construction.



Onsite gas cart used to retro fill existing gas-insulated, high-voltage switchgear, with an alternative low global warming g³ gas, designed for high-voltage transmission equipment, Richborough Substation, Kent, UK



Decentralisation

The energy system continues its transition from high to net zero carbon. This change coincides with a shift to more decentralised resources, including renewables and battery storage. As the volume of this intermittent and distributed generation increases, a more resilient and flexible system will be required; one that makes best use of available energy resources to meet consumers' needs in a balanced, efficient and economical way.

30%

of generation in the UK is connected at the distribution level

11%

of generation in Massachusetts and New York is connected at the distribution level

2021/22 developments

UK

Europe is projected to decentralise faster and further than any other region between now and 2050. The median power plant in Europe could reduce in size by up to 95% due to the scale of distributed generation.

Decentralised electricity systems are increasingly made possible by developments in smart systems and flexibility solutions, and supported by local initiatives to develop decarbonisation pathways.

This increasingly decentralised network presents a paradigm shift for the ESO as we work to enable the transition away from a system developed for a small number of large generation plants. The ESO will continue to innovate to enable Great Britain's electricity system as it transitions to becoming a separate, independent public corporation known as the Future System Operator.

The six UK DNO groups submitted their RIIO-ED2 business plans in 2021, describing the role of decentralised electricity systems in achieving net zero, including the role of the distribution system operator in the future.

US

The US is seeing one of the highest levels of grid investment in the world to meet demand for more decentralised assets such as distributed generation and electric vehicle charging.

In Massachusetts, the Department of Energy Resources officially approved the doubling of the current solar programme to 3.2 GW. The Department of Public Utilities passed a provisional programme regarding cost allocation to support distributed generation. The state also allocated \$13.1 million in grants to install 306 direct current fast charging electric vehicle charging ports at 150 locations.

New York's Governor called for a doubling of the energy-storage target to 6 GW by 2030 and intends to establish a world-class battery research and manufacturing centre. Proposals also included a \$1 billion investment to support electric vehicle (EV) adoption and charging; \$500 million to develop offshore wind supply chains and port infrastructure; and the creation of a green hydrogen hub to compete for \$10 billion federal funding.

Our response

- In the UK, we are running three Network Option Assessment Pathfinder projects to pilot innovative ways to ensure grid reliability as we prepare to operate a zero-carbon grid by 2025.
- We connected 406 smaller, distributed generation customers to the network in the UK, double the number we connected two years ago.
- The Equitable Novel Flexibility Exchange (Equinox) project allows WPD customers with heat pumps in their homes to participate in a flexible energy future. This project will assist in the deferral or avoidance of network reinforcement due to the predicted high uptake of heat pumps in the upcoming RIIO-ED2 and beyond.
- WPD published reports for each local authority as part of the Distribution Future Energy Scenarios process, outlining the expected uptake of different demand and generation technologies at a decentralised level. The reports are used to assist local stakeholders with local area energy planning and for WPD to identify areas of strategic investment in the distribution network.
- We connected 207 MW of distributed energy resources in New York in 2021. This is the most distributed generation we have ever connected and earned us the maximum incentive payment.
- Funding was approved for our Active Resource Integration pilot by New York's Public Service Commission. This aims to reduce interconnection costs for up to 15 MW of distributed solar projects.
- We began construction on the New York Energy Solution project to address bottlenecks between demand and distributed renewable generation in New York, enabling further decentralisation.
- We secured \$150 million of funding in a joint venture with Emerald Energy Venture to support growth in our distributed renewable energy portfolio.
- We have entered a partnership with Massachusetts-based Form Energy to work on breakthrough long-term energy storage and invested in Viridi Parente's innovative high-density storage technology.



Digitalisation

Our digital aspiration is to be an intelligent connected enterprise bringing customers, employees and assets together to create the most resilient and secure utility. Our vision is to create insights from a single source of consumable and consistent data.

\$345m

National Grid Partners' investment in companies whose transformational technologies are making grids greener and more resilient

2021/22 developments

Frontier technologies such as connected sensors, appliances and devices have exceeded the number of people on the planet in 2021. Additionally, the declining cost of computer storage is enabling the management of large volumes of data.

Customers desire a seamless experience, though only 21% felt their utility provider made life easy for them in 2021.

Effective digital transformations of utilities across the globe are enabling them to decarbonise, decentralise and democratise energy resources.

Driven by increased regulator demands, these trends are accelerating in utilities, driving 20% annual growth in global investment in digital electricity infrastructure and software for the past few years.

Our response

- We developed WhenToPlugIn, a new online application in the UK that suggests how to reduce consumers' carbon footprints by identifying periods of the day to use appliances when the energy mix is dominated by renewable and low-carbon sources.
- The launch of the Connected Data Portal enabled WPD to become the first UK DNO to provide all customers and stakeholders with open access to its data, further digitalising customer interactions in areas such as applications for new connections and flexibility service provision.
- We launched the new My Account page to streamline US users' digital experience across any device, enabling electric and gas customers to view energy use, manage account information and enrol in programmes.
- We began using satellite imagery and AI in the US to optimise vegetation management.



Case studies



North Sea Link – specialist barge laying undersea cable in Norway

North Sea Link goes live

The North Sea Link is our latest interconnector to go into operation. It is a joint venture with the Norwegian system operator, Statnett, and cost €1.6 billion over six years to build. The 1,400 MW link stretches 447 miles (720 kilometres) between the UK and Norway under the North Sea, and can power approximately 1.4 million homes. Enabling the trade of renewable energy will help reduce the UK's carbon emissions by 23 million tonnes of carbon by 2030, save customers money, and bolster energy security.

WPD and ET response to Storm Arwen

Winds of over 92 miles per hour (148 kilometres per hour) and heavy snow hit the UK in November 2021, impacting electricity distribution and transmission. All four of WPD's distribution networks were affected, requiring power restoration to over 243,000 properties, answering 98,745 customer calls, and resolving over 1,600 incidents. Our transmission network was also affected, with 45 network faults reported. Fortunately, our automatic protection mechanisms worked well to deal with the faults reported. Overall, well-versed preparation, action and communication resulted in a successful response in our service areas to the worst storm to affect power supplies in 15 years.

Offshore wind lease awarded in the New York Bight

In February 2022, the Bureau of Ocean Energy Management hosted the country's largest offshore wind lease auction to date for seabed development rights between New York and New Jersey. In partnership with RWE, we won the largest of the six sites. The awarded area has the potential to host 3 GW of capacity, enough to power over a million homes. The joint venture, Community Offshore Wind, combines RWE's world-leading offshore wind capabilities with our local expertise in the Northeast and experience with High-Voltage Direct-Current interconnectors. This award supports both companies' efforts to advance a clean energy future and achieve our states' offshore wind and climate targets in the coming decades.

Succeeding with our strategy

Our vision is to be at the heart of a clean, fair and affordable energy future. To deliver our vision in a focused way, we have a strategy which sets the bounds of our business, guided by four strategic priorities.



Further reading:
Internal control and risk management on pages 28 – 32

<h2>Strategic priority</h2>	<h2>Enable the energy transition for all</h2> 	<h2>Deliver for customers efficiently</h2> 
<h3>What this means</h3>	<p>We will increase the positive impact we have on society, environmentally and socially, primarily through enabling a transition to a clean energy future. By innovating how our networks deliver energy, investing for a changing climate and influencing policy and regulation, we will enable clean electricity, heat and transport, and promote better outcomes for all where we develop skills and where no one is left behind.</p> <p>Business environment link:</p> 	<p>Delivering safe, reliable, resilient and affordable energy for customers in our communities has always been at the heart of what we do. As we invest to decarbonise the energy system, using our operational excellence and financial discipline to keep bills affordable for customers is more important than ever.</p> <p>Business environment link:</p>  
<h3>2021/22 achievements</h3>	<ul style="list-style-type: none"> We received the prestigious climate change 'A' score from CDP Climate Change for the sixth consecutive year for our corporate sustainability work in cutting emissions and moving towards a low-carbon economy. We have 22 GW of renewables connected to our UK and US electricity transmission and distribution networks. Ofgem's strategic innovation fund awarded us £400,000 for three projects that will help develop a net zero electric transmission network, including replacing SF₆ with a low-carbon alternative and utilising satellite data analytics to future-proof against the impacts of climate change. WPD is the only DNO to fit three-phase services as standard to all new connections, boosting capacity for EVs and heat pumps. In the US, our onshore renewables team has secured over 2 GW of power offtake agreements with partners such as Walmart and Home Depot. We started operations of the 200 MW Prairie Wolf Solar Project in Illinois, which is projected to offset 285,000 tonnes of CO₂ annually. The New York Power Authority partnered with us in May 2021 on the Smart Path Connect project to rebuild 110 miles of transmission lines. This will support existing renewable resources and result in production cost savings, emissions reductions and decreases in transmission congestion. 	<ul style="list-style-type: none"> The Edison Electric Institute (EII) announced us as a recipient of its Emergency Response Award and the Emergency Recovery Award, recognising recovery and assistance efforts following service disruptions caused by extreme weather or other natural events. We launched the Digitalising Work Management app across 50 Electricity Transmission operations sites in the UK to schedule, dispatch and complete work more efficiently. WPD achieved the British Institution Standard for Inclusive Service Provision for the ninth year running and was re-accredited with the Customer Service Excellence Standard. We successfully reached new agreements in regulatory rate cases across our US service areas to continue to serve our customers. In the US, we were honoured with the ReliabilityOne award for Outstanding Reliability Performance from PA Consulting, recognising reliable electric service, technology and innovation, and customer engagement. We launched a revamped bill assistance campaign in the US to remind customers about the services and programmes we offer during prolonged cold weather or increasing energy prices.
<h3>Key highlights</h3>	<h1>19.5 GW</h1> <p>of wind power on Britain's electricity system on 29 January 2022, setting a new wind power record</p>	<h1>99%</h1> <p>of our UK customers affected by the worst storm to affect power supplies in 15 years had power returned within 48 hours</p>
<h3>Looking ahead</h3>	<ul style="list-style-type: none"> We are developing a Cap and Floor regulatory regime with the UK Department for Business, Energy & Industrial Strategy and Ofgem to apply to future multi-purpose interconnectors. This will reduce the number of radial connections limiting distribution to coastal communities, providing significant cost reductions for consumers, and enable wind developers to access multiple markets. The Hinkley Point connection transmission project we are developing will enable six million homes to access low-carbon electricity. WPD will work to ensure the network is ready to enable stakeholders to achieve their net zero ambitions. It will prepare the network for at least 1.5 million additional EVs, 600,000 heat pumps and a significant increase in renewable energy over the next six years. In the US, we will be working with stakeholders to build towards an integrated clean gas and electric system that would eliminate fossil fuel gas from both the gas delivery and electric systems, as the most practical and affordable path for our customers. In our US jurisdictions, we have committed to 20,000 EV charging points by 2025 and have applied for funding for an additional 32,000 in Massachusetts. 	<ul style="list-style-type: none"> Customer focus is something we will continue to improve, building on best practice through our US Customer team and learning from WPD's excellence in customer service. We have committed to 5,000 volunteer hours in the US and \$5 million annually to community organisations for the next decade. For RIIIO-ED2, WPD intends to ensure that power cuts will be at their lowest ever levels and customer satisfaction will be at its highest at over 93%. Crucially, it will achieve all of this whilst maintaining affordability for its customers.

<p>Strategic priority</p>	<p>Grow our organisational capability </p>	<p>Empower colleagues for great performance </p>
<p>What this means</p>	<p>In the context of a rapidly changing energy sector, we will need to build on and evolve our organisational capabilities. We will digitally transform our processes, strengthen our customer focus and sharpen our commercial edge. To successfully make this transformation and achieve results, our ability to implement change effectively will be paramount.</p> <p>Business environment link:</p>  	<p>All our people shape the culture and ways of working needed to perform and achieve outcomes that will exceed all our stakeholders' expectations, including those of customers, communities, regulators and investors.</p> <p>Our leaders will encourage people to be at their best when it matters. From attracting diverse talents, developing our people and recognising great achievements, we will ensure our colleagues are engaged and able to work towards a clean energy future.</p> <p>Business environment link:</p>    
<p>2021/22 achievements</p>	<ul style="list-style-type: none"> • At COP26 we launched the AiDash satellite tech partnership to improve the green value of our sites. • We began creating a digital copy of Great Britain's energy system, a central tool that brings together every element of our system to create a collective and dynamic view. The virtual environment allows for testing and modelling to make accurate forecasts which enables commercial decision making and understanding of the impact for customers. • WPD has conducted significant roll-out of innovative flexibility initiatives, including procurement of flexibility services via the Flexible Power brand, which has procured 270 MW of flexibility services during 2021/22, affecting 2.4 million customers and achieving £49 million of deferred or avoided reinforcement. • In the US, we launched Pathfinder, a custom end-to-end solution that digitises and streamlines field force work, enabling work assignment, scheduling, dispatch, field work, data capture, tracking and reporting. • We signed an offshore partnership agreement with RWE Renewables to successfully bid jointly in the New York Bight seabed lease auction. Fifty people worked collaboratively across companies. 	<ul style="list-style-type: none"> • We were named in the Top 10 Outstanding Employers list by the Ethnicity Awards, which recognise companies working to ensure all people are afforded equal opportunity, regardless of race or ethnicity. • We launched MyHub Mentoring, our new mentoring programme that connects our experienced and skilled leaders with colleagues looking to develop professionally in specific areas. • We launched the 'Grid Guide to Our People: Inclusion and Diversity' podcast. • We were ranked 1st in the UK and 3rd globally for gender equality in a report published by Equileap. • As a diversity and inclusivity measure, WPD signed up to participate in the 10,000 Black Interns programme, which aims to help transform the prospects of young black people in the UK by offering internships to black students. • In the US, we received a score of 100 on the Human Rights Campaign Foundation's 2022 Corporate Equality Index, and were named the Best Place to Work for LGBTQ Equality. • We signed up to the Valuable 500 initiative, in line with a core focus of our Responsible Business Charter: strengthening diversity and representation of the workforce. This initiative puts disability on the business leadership agenda with the aim of catalysing inclusive action.
<p>Key highlights</p>	<p>6 GW</p> <p>of network boundary capacity in the UK</p>	<p>46%</p> <p>of our Board seats are held by women</p>
<p>Looking ahead</p>	<ul style="list-style-type: none"> • We will be a leader in pioneering smarter, low-carbon energy networks which at their core are made of resilient transmission and distribution grids. Our focus now is on building the diverse pipeline of employees that will get us to net zero. • The UK energy industry needs 400,000 additional people in new and existing jobs by 2050. • WPD is forecast to avoid £94 million of network reinforcement costs by using flexibility services. 	<ul style="list-style-type: none"> • We will continue to establish our purpose, vision and values, and reinforce our third value to 'make it happen'. • We strive to achieve 50% diversity in all new talent programmes by 2025. • We will look to be included in the 2022 Bloomberg Gender-Equality Index, which tracks transparency in gender reporting. • WPD plans to demonstrate exceptional and embedded employment practices by achieving Gold accreditation with Investors in People by the end of RIIO-ED2.

Innovation

Our commitment to net zero continues to shape our innovation strategy, with our key aim being to deliver cleaner and cheaper energy. Our innovation and Research and Development (R&D) portfolio enables us to identify and target carbon savings for our own operations and we are also developing innovation projects to ensure we are prepared for, and play a pivotal role in, the decarbonisation of energy for power, heat, transport and industry.

We place a high value on collaboration to inform, generate ideas and solve the challenges we see

ahead of us, and we work with technical organisations, academia and suppliers in the energy sector that align with our goals and objectives.

We set out here some of the key innovation projects our business units have been working on over the financial year. In addition, NGP, our corporate investment and innovation arm, continued to progress investments in emerging technologies and embedded these innovations across our US and UK core operations. You can find more detail about our R&D portfolio for our business units on pages 264 to 267.



Vulnerability and Energy Networks, Identification and Consumption Evaluation (VENICE) in UK Electricity Distribution

WPD has started its largest vulnerability Network Innovation Allowance (NIA) funded project, focusing on developing ways to predict consumer vulnerability and ensure we can target our support and investment in our communities, or even households, that need it most. Working with our partners, the community energy group WREN, Frazer-Nash Consultancy and Frontier Economics, we are looking at how WPD can support vulnerable customers. We are assessing which commercial models would work best to: enable fuel poor consumers to participate in the decarbonisation of the energy system so as to benefit the community and achieve net zero; explore whether we can use smart meter data to identify vulnerable customers, and thus enable us to target support to those in our communities where it would be most effective and who need it most; and the effect of changes in electricity use as a result of the pandemic and whether, for instance, the shift to home working will have an impact on customers in vulnerable situations.

WPD Innovation Engineer, Stuart Fowler said: "VENICE is no ordinary innovation project – it will shine a real light on energy use and help us to reach out to the people who need it most."



Virtual Energy System in ESO

The ESO manages the supply and demand to meet the needs of Great Britain, but it also has a clear mission: to decarbonise the energy system and bridge the gap to net zero. Continuing to innovate and adapt the energy system will require a range of new tools and a reimagining of how the entire industry can come together to have a lasting impact.

To achieve this, in 2021, the ESO launched an ambitious, industry-wide mission to digitalise our energy system by constructing real-time digital twin replicas of our entire energy landscape, working in parallel to our physical system, thereby creating a virtual environment through which we can share data and model and test scenarios to make our decision making more robust. This will create valuable insight to help guide and govern how we generate, manage, store and consume energy, helping us make better decisions for Great Britain's aim of achieving net zero targets more quickly and efficiently.

On 1 December 2021, along with panellists from across Ofgem, BEIS, the Energy Digitalisation Taskforce, Energy Systems Catapult and more, the ESO hosted a one-day conference for the energy industry and wider stakeholders to find out more about the programme, and how to get involved. A series of advisory groups and engagement opportunities are taking place throughout 2022.



Deeside Centre for Innovation – UK ET

National Grid's Deeside Centre for Innovation in North Wales has facilities set up ready for industry participants to trial and assess new technological developments before they go into service on the network. This unique environment allows designs to be validated under more realistic conditions than have been available ever before, with equipment being tested at 4,000 A and up to 600 kV outside of laboratory conditions, in an outdoor environment for extended periods of time – days, months or even years.

UK ET is currently trialling two new innovative projects to cut harmful environmental emissions. Working with UK-based Rawwater, we have started work on delivering a novel method of sealing harmful environmental SF₆ leaks by reducing emissions from small-bore pipework.

Another key innovation project currently underway is the testing of a new patented concrete mixture called Cemfree (owned by DB Group), which potentially has a carbon footprint of 80% less than conventional types. Typical barriers to adoption of innovative concrete products include how they will behave on site and long-term durability. To address this, UK ET is currently testing two large-scale slabs (c.50 cubic metres) to identify the differences in performance between Cemfree and a conventional concrete.



Deeside Centre for Innovation, North Wales, UK



National Grid Partners

NGP, our corporate investment and innovation arm, continued achieving impact for the Group by investing in emerging technologies such as AI, data security and cyber security, and embedding these innovations across our US and UK core operations. NGP's portfolio as at 31 March 2022 comprised 38 companies and four fund investments at a fair value of \$491 million.

During the past fiscal year, NGP invested in 13 new startups – AptEdge, Baffle, Cogniac, Compute North, Cyolo, Finite State, Incorta, Pathr, Resilience, Sensat, Sync Computing, TS Conductor and Viridi Parente – whose technology can make power grids greener, more secure and more customer friendly. Existing portfolio company Dragos announced a \$200 million funding round in which NGP participated as a returning investor. The Series D round is believed to be the largest ever for an operational technology (OT) cyber security company. NGP first invested in Dragos in 2018, when National Grid began using the company's industrial threat intelligence service to monitor global threats to industrial control systems.

NGP continues to build use cases of its portfolio innovations across our core businesses. Working with NGP portfolio

company Cogniac, for example, National Grid Metering is using AI to train an AI model to identify different makes and models of gas-meter regulators (which may benefit from early replacement), using a variety of photographs taken from multiple angles and in various lighting conditions. This is increasingly critical for keeping customers safe and warm.

More than 70% of NGP's portfolio companies have strategic engagements with National Grid to help transform our operations – such as AiDash, which combines satellite data and AI to protect critical infrastructure. After a successful deployment in our US service territories to spot overgrown vegetation that can spark outages or fires, at COP26 AiDash unveiled an environmental stewardship product developed with National Grid and NGP's Innovation team.

In November, at COP26 in Glasgow, NGP hosted the Innovating our Way to Net Zero panel discussion with National Grid CEO John Pettigrew and the chief executives of Edison International and the Electric Power Research Institute on how corporate investments in startups can supercharge new clean energy technologies. Additionally, NGP's NextGrid Alliance (NGA) continues to grow from 60+ member utilities at its launch in 2020

to 80+ global utility companies today. Nearly half the world's regulated energy utilities have participated in NGA workshops in the past year to help advance innovation and accelerate the decarbonisation transition. NGP launched a new online community for Alliance members, at ngalliance.energy, in November.

Since its launch in November 2018, NGP has led more than 50% of its startup investment rounds and achieved four portfolio exits – including October's initial public offering of Vancouver-based Copperleaf Technologies, which helps National Grid and other critical infrastructure companies ensure their capital spending generates the highest strategic value, including planning for net zero.

Framing the pathway to the energy transition is a combination of looking at the mega trends known as the three Ds: digitalisation, decentralisation and decarbonisation. Getting there will require enabling technologies like IoT, data analytics, storage cloud, cyber security, and, in turn, investment in areas such as asset modernisation, increased customer focused solutions and smart enterprise. More details can be found at ngpartners.com, including details of each of our portfolio investments.



HyGrid – hydrogen blending project in New York

We are excited to have launched the HyGrid project, the largest green hydrogen-blending project for direct use by utility customers in the northeastern US and one of the first in the country. In the town of Hempstead on Long Island, HyGrid is expected to heat approximately 800 homes and fuel 10 municipal vehicles at no additional cost to customers. Much of the equipment required to create zero-carbon

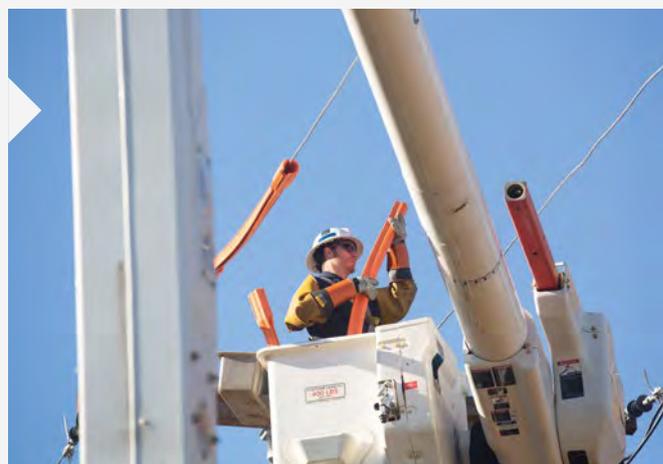
hydrogen is already in place at the site; this includes existing wind and solar equipment for generating hydrogen fuel for vehicles, and an adjacent National Grid facility that provides energy for the local neighbourhood. Rudy Wynter, President of National Grid New York, said: "We believe that hydrogen can transform the energy industry, and we are at the forefront."



Fault Location, Isolation and Service Restoration (FLISR) in New England

FLISR is a scheme-based system that monitors and responds to electrical faults along our networks. It identifies and isolates the location of a fault to minimise impact to the grid and the number of customers affected, while enabling a speedier return to service for uninvolved customers when this is safely possible. Creating FLISR capabilities involves installing reclosers and feeder monitors at substations, with preprogrammed logic, to enable near real-time responses to faults.

The technology was installed as part of the Advanced Data Analytics programme. In the midst of the 2021 nor'easter, the FLISR scheme was active on feeders from West Salem and Saugus in the North Shore District in New England. A tree limb created a mainline fault condition between the West Salem substation circuit breaker and the first downstream pole-top recloser on the line. FLISR logic was activated and quickly restored service to 1,531 customers in 16 seconds. The remaining 2,356 customers experiencing the outage had their service restored in 141 minutes after the repairs to the feeder were completed. Had this FLISR scheme not been implemented, all 3,887 customers would have experienced the full outage.



FLISR: installation of recloser. New England, US

Key performance indicators

The Board uses a range of metrics¹, reported periodically, against which we measure Group performance. These metrics are aligned to our strategic priorities.

Link to strategy



Enable the energy transition for all



Deliver for customers efficiently



Grow our organisational capability



Empower colleagues for great performance



Indicates an alternative performance measure



PwC Assured Data

Denotes information subject to limited assurance by PricewaterhouseCoopers LLP see page 61 for full definition.

Link to remuneration

Remuneration of our Executive Directors, and our employees, is aligned to successful delivery of our strategy. We use a number of our KPIs/ alternative performance measures as specific measures in determining the Annual Performance Plan (APP) and Long-Term Performance Plan (LTPP) outcomes for Executive Directors. While not explicitly linked to APP and LTPP performance outcomes, the remaining KPIs¹ and wider business performance are considered. For further detail, please see our Directors' Remuneration Report, on pages 108 – 131.

1. Two of our previously reported KPIs: Contribution of our corporate responsibility work and Education, skills and capabilities, have been retired as similar metrics are reported in our RBR.

Financial measures

Strategy link	KPI and performance	Progress in 2021/22
	<p>Group RoE (%) </p> <p>In calculating Group RoE, we measure our performance in generating value for shareholders by dividing our regulated and non-regulated financial performance, after interest and tax, by our measure of equity investment in all our businesses, including the regulated businesses, NGV and Other activities and joint ventures.</p> <p>Target: 9.75 – 11% each year</p> <p>2021/22 11.4 2020/21 10.6 2019/20 12.0</p>	<p>Group ROE of 11.4% was higher than 2020/21 (10.6%) with higher regulated financial performance mainly due to the acquisition of WPD and an improved contributions from our non-regulated businesses mainly due to higher interconnector revenues.</p>
	<p>Total regulated asset growth (%) </p> <p>Maintaining efficient growth in our regulated assets ensures we are well positioned to provide consistently high levels of service to our customers and increases our future revenue allowances. This includes investment for a changing climate, enabling clean electricity, heat and transport.</p> <p>Target: 6 – 8% growth each year</p> <p>2021/22 8.7 2020/21 5.6 2019/20 9.0</p>	<p>Asset growth during the year was 8.7% (2020/21: 5.6%). Capital investment of £7.0 billion (including UK GT), driven by the growth in WPD, along with higher RAV indexation (due to higher inflation) resulted in this increase. Asset growth in 2020/21 was adversely impacted by lower RAV indexation and the impact of COVID-19.</p>
	<p>Cumulative investment in delivering new low-carbon energy sources (£m)</p> <p>We invest in new low-carbon energy sources primarily through our interconnector businesses (North Sea Link, IFA, IFA2 BritNed and Viking Link), investments in, and partnerships with, companies delivering low-carbon energy sources (for example, our partnership with Sunrun) and investments into large-scale renewables (for example, our new investment in NGR).</p> <p>2021/22 2,610 2020/21 1,874 2019/20 1,440</p>	<p>Investment in delivering new low carbon energy sources increased in the year by £300 million (69%), largely driven by investment in US Offshore Wind (purchase of 3.2 GW seabed lease) and increased investment in onshore renewables, with the latter reflecting the construction of the Noble and Yellowbud projects.</p>

Financial measures continued

Strategy link	KPI and performance	Progress in 2021/22
	<p>NGV capital investment (£m) ▲</p> <p>NGV is focused on investment in a broad range of energy businesses across the UK and US, including our interconnector business, large-scale renewable generation, LNG storage and regasification, and energy metering.</p>	<p>NGV capital investment, including Long Island Power Authority (LIPA) Gen ('Genco') has increased year-on-year by £383 million (72%). This is principally due to investment in US offshore wind (purchase of 3 GW seabed lease), increased investment in onshore renewables, reflecting the construction of the Noble and Yellowbud projects, and the Cap.25 project within Grain LNG.</p> <p>Prior year data has been restated to include Genco and exclude NG Metering. This is to align to NGV's current structure. 2019/20 data is not included to align with the data in the financial statements.</p>
	<p>2021/22  913</p> <p>2020/21  530</p>	

Non-financial measures

Strategy link	KPI and performance	Progress in 2021/22
	<p>Cumulative low-carbon generation connected to our UK ET network (GW)</p> <p>Low-carbon generation supported by our network to date.</p>	<p>A total of 20.9 GW of low-carbon generation is currently connected to our network, following additional offshore wind capacity connecting at Triton Knoll (540 MW), Hornsea 2 (1320 MW) and Lincs Offshore Wind farm (9 MW). The government's 10 point plan alongside the new Energy Strategy and commitment to annual Contract for Difference (CfD) allocation rounds, indicates further increases in low-carbon capacity over the coming years.</p>
	<p>2021/22  20.9</p> <p>2020/21  19.0</p> <p>2019/20  18.0</p>	
	<p>Connections of renewable schemes to US electric distribution network (MW)</p> <p>The table represents the amount of customer-owned renewable energy capacity installed on our distribution network across our US footprint. Given the variability and unpredictability of customer-driven projects, the Company does not presently have a MW target. Current targets primarily focus on regulatory compliance and customer need date attainment.</p>	<p>The Company interconnected 569 MW of distributed renewable energy resources in 2021/22 across our service territory, an all-time high and a 20% increase compared with the previous fiscal year. The Company interconnected a record number of distributed renewable energy applications in 2021/22 across our service territory, totalling to 13,400 applications.</p> <p>The State of Massachusetts, New York and Rhode Island installed a record amount of distributed renewable energy capacity (216 MW, 244 MW and 109 MW respectively).</p>
	<p>2021/22  569</p> <p>2020/21  470</p> <p>2019/20  329</p>	
	<p>Cumulative low-carbon generation connected to our UK Electricity Distribution network (GW)</p> <p>Low-carbon generation connected to our UK ED network, to date.</p>	<p>A total 10.2 GW distribution generation is connected to our network to date, of which 6.7 GW is low-carbon generation. This includes biofuels, wind, solar, hydro and storage.</p>
	<p>2021/22  6.7</p> <p>2020/21  6.2</p> <p>2019/20  6.2</p>	

Further reading:

You can find out additional detail to support some of these KPIs in our Responsible Business Report. This document can be found by visiting: nationalgrid.com/responsibility

Non-financial measures continued

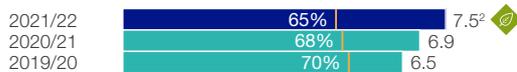
Strategy link	KPI and performance	Progress in 2021/22
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Climate change – Scope 1, 2 and 3 emissions

This is a measure of our reduction of Scope 1, Scope 2 and Scope 3 emissions of the six primary Kyoto greenhouse gases. Our target is to reduce our combined Scope 1 and 2 greenhouse gas emissions by 80% by 2030, 90% by 2040 and to net zero by 2050, compared with our 1990 emissions of 21.6 million tonnes¹. Furthermore, we target reducing our Scope 3 emissions by 37.5% by 2034 from 2019 emissions of 33.2 million tonnes.

The percentages in the chart below reflect a reduction in our Scope 1 and 2 emissions, from the relevant baseline. The figures are million tonnes of CO₂ equivalent.



The figures in the chart below represent our Scope 3 emissions and are million tonnes of CO₂ equivalent.



1. This 1990 baseline will be updated to reflect portfolio changes in 2022/23. The 1990 baseline does not include emissions from our newly acquired UK ED business (WPD).
2. PwC Assured Data: total Scope 1 and 2 emissions only.



Further reading

You can read more about the Task Force on Climate-related Financial Disclosures and our wider sustainability activities and performance on pages 70 – 83.

Our Scope 1 greenhouse gas emissions for 2021/22 equate to 5.3 million tonnes of CO₂ equivalent (2020/21: 4.7 million tonnes) and our Scope 2 emissions (including electricity line losses) equate to 2.2 million tonnes (2020/21: 2.2 million tonnes). This is a total of 7.5 million tonnes of CO₂ equivalent for Scope 1 and 2 emissions. These figures include line losses and are equivalent to an intensity of around 411 tonnes per £1 million of revenue (2020/21: 467 tonnes). Our Scope 3 emissions for 2021/22 were 30.0 million tonnes of CO₂ equivalent (2020/21: 28.9 million tonnes). 75% of Scope 1 and 2 emissions were in our US business, with 25% in the UK. For our Scope 3 emissions, 91% were in our US business with 9% in our UK business.

Our total energy consumption is 3,502 GWh where the UK and US are responsible for 2,341 GWh and 1,161 GWh respectively. This excludes fuels consumed for power generation in the US which is 19,610 GWh and system losses which are 11,117 GWh.

We measure and report in accordance with the World Resources Institute and World Business Council for Sustainable Development Greenhouse Gas Protocol. Scope 1, 2 and 3 emissions are subject to independent limited assurance against ISAE 3410 Assurance Engagements on Greenhouse Gas Statements. This data complies with the UK government's Streamlined Energy and Carbon Reporting (SECR) requirements. For further detail, please see page 68.



Network reliability

We aim to deliver reliability by planning our capital investments to meet challenging demand and supply patterns, designing and building robust networks, having risk-based maintenance and replacement programmes, and detailed and tested incident response plans. We measure network reliability separately for each of our business areas. The table below represents our performance across all our networks in terms of availability.

%	2021/22	2020/21	2019/20
UK Electricity Transmission	99.99993	99.99997	99.99997
UK Gas Transmission	100.00000	100.00000	99.99960
UK Electricity Distribution	99.99469	99.99455	99.99469
NE Electricity Transmission	99.97636	99.95428	99.91471
NY Electricity Transmission	99.95261	99.95429	99.98194
NE Electricity Distribution	99.92725	99.91239	99.95205
NY Electricity Distribution	99.95681	99.92788	99.93180
Interconnector availability			
IFA interconnector	61.3	95.4	91.4
IFA2 interconnector	90.4	96.5	–
BritNed interconnector	80.4	75.1	98.6
NSL interconnector	63.3	–	–
Nemo Link interconnector	99.0	99.2	96.1

In both the UK and US, we continued to maintain high levels of reliability on all our networks.

The fire at our IFA interconnector resulted in reduced capacity. The NSL interconnector started commercial operations in 2021/22.

Strategy link

KPI and performance

Progress in 2021/22

**Customer satisfaction**

We measure customer and stakeholder satisfaction, while also maintaining engagement with these groups and improving service levels.

	2021/22	2020/21	2019/20	Target
UK Electricity Transmission (/10)	7.78	8.4	8.2	7.78
UK Electricity System Operator (/10)	7.3	7.5	7.6	8.15
UK Electricity Distribution	9.03	9.18	9.11	—
UK Gas Transmission (/10)	8.6	8.2	8.0	7.9
NE residential — Customer Trust Advice survey (%)	59.9	63.3	55.0	—
NY residential — Customer Trust Advice survey (%)	64.3	68.1	63.1	—
Metering NPS score (index)	+53	+61	+40	—

2021/22 was the trial year for the UK ET Quality of Connections Incentive introduced by Ofgem. This measures key touchpoints throughout the Customer Connection journey and gives us the ability to target specific areas of improvement. UK ET and GT figures represent our baseline targets set by Ofgem for reward or penalty under RIIO-T2 (maximum score is 10). Prior year information is based on RIIO-T1. The change in target in 2021/22 reflects the new Incentive mechanism and change in methodology going forward.

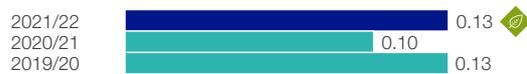
The US metrics measure customers' sentiment with National Grid by asking customers their level of trust in our advice to make good energy decisions. These metrics are tied to the value customers feel they receive from National Grid.

The NPS score reported represents the UK metering business. Although this has seen a decline in 2021/22, action plans are in place to improve the score, going forward.

**Group lost time injury (LTI) frequency rate (LTIs per 100,000 hours worked)**

This is the number of worker LTIs per 100,000 hours worked in a 12-month period (including fatalities) and includes our employee and contractor population.

Target: <0.1 LTIs



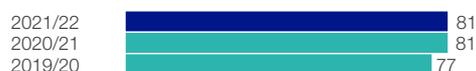
As at 31 March 2022, our Group lost time injury frequency rate (LTIFR) was 0.13, which is higher than the Group target of 0.10. This is a combined employee and contractor LTI rate, which reflects our continued focus on encouraging good safety behaviours across the entire workforce. This result excludes WPD data which can be found on page 51. We are working to harmonise WPD's LTIFR records for data collection, with those of the Group.

We have had a number of disappointing months regarding incidents, the proportion of which relate to slips trips and falls and musculoskeletal strains and twists, where lack of concentration and complacency play a part. In recent months, we completed a review of safety and we are using the outputs to define a Group-wide programme to address these going forward. The programme will include focus on effective behavioural programmes.

The 2019/20 result has been restated. The change results from a review of data collation processes that identified a small anomaly regarding collation of hours worked information

**Employee engagement index (%)**

This is a measure of how engaged our employees feel, based on the percentage of favourable responses to questions repeated annually in our employee engagement survey. Our target is to increase engagement compared with the previous year.



We measure employee engagement through our employee engagement survey (EES) called Grid:voice.

Our engagement score was 81%. The result also includes WPD colleagues.

**Workforce diversity (%) – ethnicity**

We measure the percentage of ethnic minorities in our workforce. We aim to develop and operate a business that has an inclusive and diverse culture (see page 65 – 66).



Our ethnic diversity data for 2021/22 does not include WPD colleagues. We are working to harmonise WPD's ethnicity records for data collection, with those of the Group. We will look to include WPD data next year.

**Workforce diversity (%) – gender**

We measure the percentage of women in our workforce. We aim to develop and operate a business that has an inclusive and diverse culture (see page 65 – 66).



Our gender diversity data for 2021/22 has been updated to include WPD colleagues, following the acquisition of WPD.

Internal control and risk management

The Board is committed to protecting and enhancing our reputation and assets, while safeguarding the interests of our shareholders.

Managing our risks

National Grid is exposed to a variety of uncertainties that could have a material adverse effect on the Group's financial condition, our operational results, our reputation, and the value of our shares.

The Board oversees the Company's risk management and internal control systems; it sets and monitors the amount of risk the Company is prepared to seek or accept in pursuing our strategic objectives – our risk appetite. The Board assesses the Company's Group Principal Risks (GPRs) and monitors the risk management process through risk review and challenge sessions twice a year.

Risk management process

Risk strategy, policy and processes are set at Group level with the business responsible for implementation. Our Enterprise Risk Management (ERM) process provides a framework to identify, assess, prioritise, manage, monitor and report risks. It supports achieving our vision, strategy and business model as described on pages 4 – 7. This year we established a new risk governance structure with the creation of the Group Executive Ethics, Risk and Compliance Committee (Group ERC), along with equivalent committees in the business units, providing enhanced oversight and governance of risk top-down and bottom-up across the Group.

Our corporate risk profile contains the GPRs that the Board considers to be the main uncertainties currently facing the Group as we endeavour to achieve our strategic objectives. These top risks are agreed through discussions on the Group's risk profile with the Group ERC, Audit & Risk Committee and the Board. The risks are reported and debated with the Group ERC every two months, and with the Board at least every six months.



Ukraine-Russia

When the conflict began, we immediately established a crisis assessment team, of multi-disciplined leaders, to oversee and coordinate our response. We evaluated the immediate threat, analysed the risk profile across time horizons including scenario planning, and completed a strategic impact assessment. Although the immediate impact to National Grid was minimal, we increased our focus on risks and strengthened controls associated with cyber and physical security, security of energy supply, political and societal expectations, our supply chains, and sanction compliance.

We supported the UK government with advice on stabilising energy markets, reducing UK (and EU) dependence on Russian energy and developing the British Energy Security Strategy. We made charity donations and provided electrical equipment to support the Ukrainian people (including 500 diesel generator units).

The war, heightened energy bills, and changes to UK and EU energy policy have increased uncertainty across the energy sector. We are continually evaluating how we manage our risks, deliver for our customers, and fulfil our role as The Energy Transition Company.

Governance (Board and Audit & Risk Committee)

Establishes the strategy, operating model and risk framework. Evaluates reports.

Business

First Line

The business units and functions that are responsible for taking, owning and managing risks. The First Line works closely with the Second Line to agree policies and risk limits that align with risk appetite.

Maturity

Business Assurance

Second Line

The risk oversight teams provide independent oversight of risks, and establish policies and limits for the First Line. The assurance teams monitor risks and controls in support of the business. Assurance provides advice, but also effective challenge to the First Line.

Top-down, bottom-up assessment

Risk management activities take place at all levels of our organisation. Through a 'top-down, bottom-up' approach, all business areas identify the main risks to our business model and our business objectives. For each risk the effectiveness of our internal controls is assessed when calculating the financial, operational and reputational impacts, and how likely the risk is to materialise. Where current risk levels are outside of agreed target scores and our risk appetite, the business area identifies and takes actions to close the gap. Cascade and escalation mechanisms are in place throughout the organisation as appropriate for risk appetite, risks, controls and action plans.

Internal Audit

Third Line

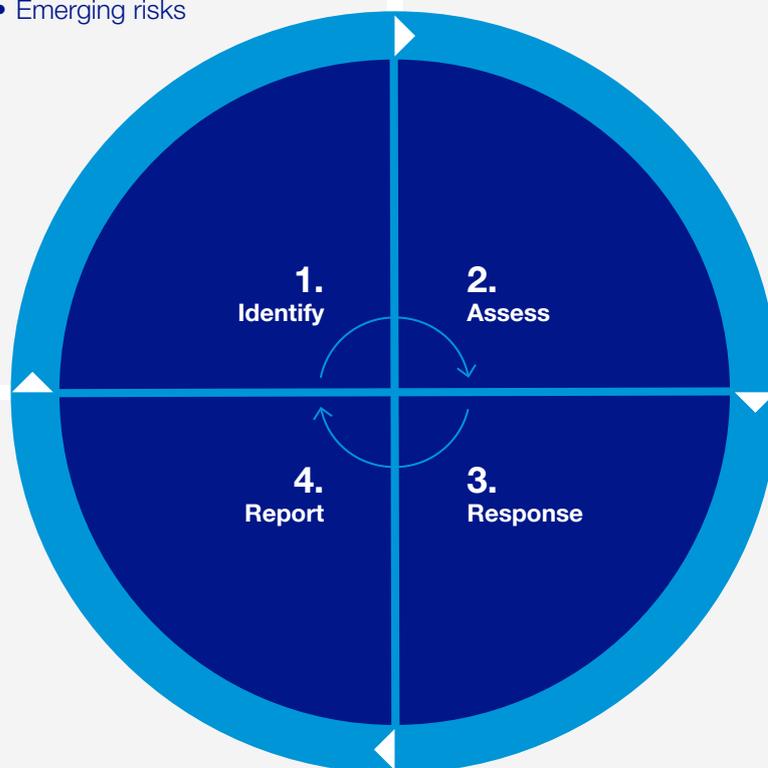
The Internal Audit function provides independent assurance over risks and controls. The Third Line function communicates directly with the Board and senior management regarding the effectiveness of risk and controls management.

Emerging risks

Emerging risks (ERs) are less defined than GPRs and typically do not pose an immediate threat. They are future focused, with greater uncertainty and are more difficult to quantify; however, they could threaten the future achievement of our strategy. Utilising future scenarios, horizon scanning and emerging risk assessments, we identify ERs that could potentially threaten the achievement of our strategic objectives in the future. Our ongoing ER process includes the identification, assessment, response, and reporting of ERs. Assessment includes the potential impact and velocity (time to impact) and our response is to then either watch, monitor or manage the risks that are reported to the Board and Group ERC using our emerging risk radar.

- Future scenarios (strategy)
- Horizon scanning
- Emerging risks

- Emerging risk assessments



- Reporting of emerging risk watchlists, radar and risk management

- Assessment outcomes determine how we will manage the emerging risk (watch, monitor, manage)

Changes during the year

The Company's risk profile has been developed drawing upon the most significant risks across our business profiles. Eight GPRs are now carried at Group ERC and Board level as detailed below. We reviewed all GPRs at least twice during the year, including an assessment of the key controls, the key risk indicators (KRIs), risk scores, alignment to risk appetite, and future mitigation actions. Through these reviews, our data management and disruptive forces risks were identified for de-escalation or retirement. There are no significant flags or hot spots that indicate a shift in risk exposure.

This year we split our principal climate change risk to establish a discrete transition climate change risk and incorporated the physical impacts from climate change on our assets (adaptation) into our significant disruption of energy risk, to ensure a clear focus on the actions needed to mitigate these different risks. The significant disruption of energy risk focuses on network reliability and resilience.

Following our agreement to sell a 60% stake in the UK GT business and completion of our preliminary integration activities associated with the acquisition of WPD, we retired our 'transaction-related' GPR.

Continued economic and political turmoil is significant, with years of global energy policy and strategy increasingly being affected. For National Grid, while our current risk levels are predominantly unchanged, the rapidly evolving situation and uncertainty require very careful monitoring and assessment of our GPRs and ERs. They have created an increase in the underlying (inherent) threat across our cyber, disruption of energy, political and societal expectations, and satisfactory regulatory risks, which we are continuously monitoring.

Our principal risks and uncertainties

Accepting that it is not possible to identify, anticipate or eliminate every risk that may arise, and that risk is an inherent part of doing

business, our risk management process aims to provide reasonable assurance that we understand, monitor and manage the main uncertainties we face in achieving our objectives. This aim includes considering inherent risks, which in turn exist because of the nature of day-to-day operations in our industry, including financial risks, which exist because of our financing activities. Our GPRs, and a summary of actions taken by management, are provided on pages 30 – 32. We have provided an overview of the key inherent risks we face on pages 253 – 256, and specifically our key financial risks, which are incorporated within note 32 to the consolidated financial statements on pages 211 – 223. Risk trends reported on the pages that follow take into account controls and any additional mitigation actions, and may be influenced by internal or external developments.

Internal control and risk management continued

People risks

It is through the high-quality work of our employees that we will achieve our vision, respond to the changing needs of our stakeholders and create a competitive advantage. Building and fostering an engaged and talented team that has the knowledge, training, skills and experience to achieve our strategic objectives is vital to our success. We must attract, integrate and retain the talent we need at all levels of the business. These risks link to our strategic priority to 'empower colleagues for great performance'.

Risk	Actions taken by management
<p>Capability and leadership</p> <p>There is a risk that we do not have sufficient capability and leadership capacity.</p> <p> *Risk trend: Neutral (2020/21: Neutral)</p> <p> Strategic priority link</p> <p><small>* Risk trends are assessed to include any external factors outside our control as well as the strength and effectiveness of our controls and additional mitigations as reviewed by management up to 31 March 2022.</small></p>	<p>We are involved in a number of initiatives to help secure the future engineering talent we require, including industrial placements and internships in the UK and US, advanced and higher apprenticeships in the UK and a graduate development programme across both the US and UK. We are focused on ensuring we have high levels of diversity in these future talent pools. Our entry-level talent development schemes (graduate training and apprenticeships) are a potential source of competitive advantage in the marketplace.</p> <p>We also continue to develop the rigour of our succession planning and development planning process, particularly at senior levels. We are now applying it deeper into the organisation as well as giving continued attention to the ethnic diversity of both our management and field force.</p> <p>There are multiple activities underway to support this agenda, including 'neutral' talent and selection processes, development interventions and a global launch of our diversity, equality and inclusion (DEI) strategy and resources.</p>

Financial risks

While all risks have a direct or indirect financial impact, financial risks are those which relate to financial objectives and performance. Financial risk management is a critical process used to make investment decisions and aims to maximise investment returns and earnings for a given level of risk. None of our financial risks are currently classified as GPR. Our key financial risks are described in note 32 to the financial statements on pages 211 – 223.

Strategic risks

Strategic risk is the risk of failing to achieve our overall strategic business plans and objectives, as well as failing to have the 'right' strategic plan. We intentionally accept some risk so we can generate the desired returns from our strategy.

Management of strategic risks focuses on reducing the probability that the inherent risk would materialise, while improving our ability to respond to the risk effectively should it occur. The risk owners, executive leaders and their teams develop and monitor ways to control the risks. These risks link to our strategic priorities of 'enable the energy transition for all' and 'deliver for customers efficiently'. The political climate and policy decisions of our regulators were key considerations in assessing our risks.

Risk	Actions taken by management
<p>Climate change</p> <p>There is a risk that we fail to identify and/or deliver upon actions necessary to address the transitional impacts (from a changing energy system) of climate change on our business and demonstrate our leadership of climate change in the energy sector.</p> <p> Risk trend: Neutral (2020/21: Neutral)</p> <p> Strategic priority link</p>	<p>Putting in place measures to:</p> <ul style="list-style-type: none"> • evolve our environmental sustainability metrics to better reflect our strategy, measure our impact and track our progress; • address our GHG emissions and meet our sustainability commitments, including net zero by 2050, hosting our first environmental, social and governance (ESG) investor seminar, including the publication of our Responsible Business Charter setting out what responsibility means for us and our commitments and ambitions over the coming years – progress is reported in our annual Responsible Business Report; • advocate for legislative and policy changes that advance decarbonisation, while proposing and delivering actions in the regions we operate to accelerate decarbonisation for the public and our customers. This work is wide-ranging from system improvements to supporting renewable generation connections, EV proposals, oil to gas/electricity heat conversions, energy efficiency, interconnectors, thought leadership and investment in new and emerging areas. <p>Note that a number of the above measures also address the physical impacts of climate change on our operations;</p> <ul style="list-style-type: none"> • regularly assess the potential range of net zero pathways and future impact on our gas assets, including evaluation of new and evolving technologies and alternative fuel sources (e.g. hydrogen); • work to include renewable gases in our US gas distribution networks; • commit to making disclosures which are aligned with the Task Force on Climate-related Financial Disclosures (TCFD), including physical and transitional scenario analysis (see pages 70 – 83); • support the charging infrastructure required for increased use of EVs; • promote energy-efficiency programmes for customers in the US; • facilitate decarbonisation in the US and UK, including zero-carbon operation of the GB electricity system through ESO in the UK; and • continue work on programmes to develop skills in our current and future workforce.

Risk

Satisfactory regulatory outcomes

There is a risk that we fail to influence future energy policies and secure satisfactory regulatory agreements.



Risk trend: Neutral
(2020/21: Neutral)



Strategic priority link

Actions taken by management

In both the UK and the US, we strive to maintain a good understanding of the regulatory agenda and emerging issues, so that we can select and develop robust, public interest aligned responses in good time. Our reputation as a competent operator of important national infrastructure is critical to our ability to do this. We have plans and governance structures in place to address key regulatory proceedings such as UK price controls and US rate case filings.

Ongoing work to support our regulatory relationships includes:

- in the UK, influencing policy through a range of avenues, including inputting and responding to government consultations and other outputs, direct engagement with government departments and engagement with wider stakeholders such as parliamentarians, trade associations and third parties;

- in the US, influencing policy through a range of avenues, including inputting and responding to legislative proposals, regulatory rulemakings and requests for information and other outputs; advocating with Congress and the Administration; and engagement with wider stakeholders such as trade associations, think tanks and other non-government organisations;
- establishing a regulatory strategy focusing on a transition to performance-based regulation;
- establishing US and UK regulatory steering committees; and
- increased focus on understanding the needs and expectations of all our stakeholders through regulatory relationship surveys, investor surveys and review of media sentiment.

Political and societal expectations and perceptions

There is a risk that we do not position ourselves appropriately to political and societal expectations.



Risk trend: Neutral
(2020/21: Increasing)



Strategic priority link

Processes and resources are in place to review, monitor and influence perceptions of our business and our reputation by:

- enhancing and consolidating our digital roadmap and social channels;
- developing an internal forum to increase management of stakeholder and media reputational issues;
- meeting our commitment to be a responsible business (see pages 60 – 69); and
- promoting partnerships and proactive policy-change discussions across the jurisdictions where we operate.

Considerations on emerging risks and horizon-scanning activities have also been addressed as part of financial and reputational impact assessments. These processes, along with twice-yearly Board strategy discussions, are reviewed regularly to ensure they continue to support our short- and long-term strategy. We regularly monitor and analyse market conditions, competitors and their potential.

Operational risks

Operational risks relate to the losses resulting from inadequate or failed internal processes, people and systems, or due to external events. These risks normally fall within our low-risk appetite level as there is no strategic benefit from accepting the risk, as it will not be in line with our vision and values.

Our operational principal risks have a low inherent likelihood of occurring. However, should an event occur, without effective prevention or mitigation controls, it would be likely to have a high level of impact. The risk owners, executive leaders and their teams develop and monitor actions to control the risks. Operational risks are managed through policy, standards, procedure-based controls, active prevention and monitoring. The operational risks link to our strategic priority to 'deliver for customers efficiently'. Principal risk assessment includes reasonable worst-case scenario testing, e.g. gas transmission pipeline failure, loss of licence to operate, cyber security attack, and the financial and reputational impact should a single risk or multiple risks materialise.

Risk

COVID-19

There is a risk that we fail to respond to significant disruptive factors caused by the COVID-19 pandemic.



Risk trend: Decreasing:
driven by the move to 'living with COVID-19' policies in the UK and US
(2020/21: Decreasing)



Strategic priority link

Actions taken by management

The COVID-19 pandemic affected several areas of our business, and we responded with a comprehensive plan, supporting the safety of our workforce and customers.

- Mitigating procedures are now part of business as usual, with further improvements to the Crisis Management Framework (CMF) planned.
- As COVID-19 rates reduce and the UK and US begin to move to an endemic status, we expect the risk will be retired as a GPR in 2022/23.

Throughout 2021/22 we have monitored effects on our people, operations, strategic objectives, regulatory and political engagement, and financial implications. Our approach has been proactive to ensure our business can continue to serve its customers appropriately.

Risk

Cyber security

There is a risk that we are unable to adequately anticipate and manage disruptive forces on our systems because of a cyber-attack, or poor recovery of critical systems or malicious external or internal parties.



Risk trend: Increasing: driven by increased threat from global geopolitical tensions (2020/21: Decreasing)



Strategic priority link

Actions taken by management

We are committed to providing secure and resilient services and continue to commit significant resources and financial investment to maintaining the security of our systems and our data. Our approach is holistic and includes:

- close partnerships with UK and US government agencies, including the Department for Business, Energy and Industrial Strategy (BEIS), the Centre for Protection of National Infrastructure (CPNI), the Department of Energy and Climate Change and the Department of Homeland Security, to understand risks and collaborate on risk management activities;
- utilising good practice frameworks including the National Institute of

Standards and Technology Cybersecurity Framework to ensure we can identify, protect, detect, respond and recover from cyber security threats (i.e. implementation of control frameworks across our security programmes in IT, operational technologies and Critical National Infrastructure (CNI)); and

- a strong focus on compliance with our regulatory obligations including the European Union Directive on Security of Network and Information Systems Regulation (the 'NIS Directive') and US North American Electric Reliability Corporation Critical Infrastructure Protection.

Asset failure

There is a risk of a catastrophic asset failure leading to a significant safety or environmental event.



Risk trend: Neutral (2020/21: Neutral)



Strategic priority link

We continue to focus on risk mitigation actions designed to reduce the risk and help meet our business objectives, including the following:

Ongoing preventative measures:

- inspection and maintenance programmes including defect management;
- UK and US winter-preparedness plans;
- US storm-hardening programme; and
- outage planning.

Event response:

- emergency response plans;
- incident-management system;
- disaster recovery; and
- business continuity management.

Embedded Group-wide process safety management system:

- to make sure a rigorous and consistent framework of risk management exists across our high-hazard asset portfolio, with safety-critical assets clearly identified on the asset register.

Implemented asset management and data management standards, including:

- supporting guidelines to provide clarity on what is expected; and
- a strong focus on what we need in place to keep us safe, secure and legally compliant.

Established capability frameworks to make sure our workforce has the appropriate skills and expertise to meet the performance requirements in these standards.

Significant disruption of energy

There is a risk that we fail to predict and respond to a significant disruption of energy supply.



Risk trend: Neutral (2020/21: Increasing)



Strategic priority link

We continue to apply a holistic approach to managing this risk through preventative mitigating actions to maintain network reliability, and timely and effective response plans. Key management actions include the following:

Ongoing preventative measures:

- inspection and maintenance programmes including defect management;
- flood contingency plans for substations;
- System Operator supply and demand forecasting;
- UK and US winter-preparedness plans;
- US gas-mains replacement programmes;
- US storm-hardening programme;

- outage planning; and
- diversity of suppliers in our US gas procurement.

Event response:

- emergency response plans;
- incident-management system;
- disaster recovery; and
- business continuity management.

We have also reviewed market resource adequacy and balancing (where applicable). The short-term controls and investments needed for a resilient network are in place, but further work remains to be done to build our climate adaptation forecasting and control framework for the next decade.

The Board's consideration of the longer-term viability of the Company is an extension of our business planning process. The process includes financial forecasting, a strict risk management assessment and regular budget reviews and scenario planning incorporating industry trends, considering any emerging issues and economic conditions. Our business strategy aims to enhance our long-term prospects by making sure our operations and finances are sustainable.

Using our established top-down, bottom-up risk-management process, we monitor and challenge the GPRs facing the Company as described on pages 28 – 32. Over the year, the Board has considered the preventative and mitigating controls and risk management actions in place for the GPRs and discussed the potential financial and reputational impact of the GPRs on our ability to achieve the Company's business plan.

The assessment of the potential impact of our GPRs on the longer-term viability of the Company tests the significant solvency and liquidity risks involved in achieving our business objectives and priorities. Although it has considered adopting varying time periods, the Board believes five years is the most appropriate timeframe over which we should assess the long-term viability of the Company.

Our GPRs are subject to annual stress testing to assess whether we have a reasonable expectation that the Company will be able to continue in operation and meet its liabilities as they fall due (our continued viability). Viability is assessed considering the following criteria:

Reasonable worst-case scenario (RWCS)	A theoretical generic representation of a challenging yet plausible manifestation of a risk. The RWCS is considered worst-case once the high-impact, low-likelihood manifestations of a risk have been discounted.
Five-year horizon	A five-year assessment period represents a reasonable time horizon that coincides with our more detailed annual business plan models that reflect the UK price control periods. It is a period over which we can foresee and quantify reasonably accurately the potential impact of future risk events.
Cliff-edge risks	Cliff-edge risks are threats that would occur beyond the assessment period, have a reasonably certain impact and are sufficiently large to threaten our viability. We consult the business to look for significant and potential cliff-edge risks beyond the five-year period. If any such risks are identified, then an assessment period beyond five years is considered.
Financial and reputational risk capacity	We primarily assess our viability from the RWCS in two ways: financial risk capacity and reputational risk capacity.
Business plan stress testing	We assess the financial impact and financial risk capacity of our risk testing using the latest business plan.
Individual risk testing	For each principal risk we assess the potential financial and reputational impact.
Risk cluster testing	We also test for risk clusters. This is the impact of more than one of the principal risks materialising during the assessment period, or where the materialisation of one risk could exacerbate another.
Mitigation actions	Where a risk scenario would potentially exceed our financial risk capacity, we consider reasonable management mitigation.

We considered each GPR for inclusion within the testing and, where appropriate, identified and assessed a RWCS for impacts on operations or financial performance over the five-year assessment time period as detailed below:

Operational impacts

- Scenario 1** A significant cyber-attack.
- Scenario 2** Significant supply disruption event occurring in the US during peak season.
- Scenario 3** A significant process safety gas pipeline failure in NY.

Performance impacts

- Scenario 4** Poor outcome of future US rate case filings, and low performance under RIIO-T2 and RIIO-ED2.
- Scenario 5** A breach of compliance rules for onshore competition in electricity transmission by ET. NY legislation and political relationships leading to loss of NY licences.
- Scenario 6** Inability to recover NY/NE COVID-19-related bad debts through future regulatory agreements.
- Scenario 7** Not meeting our net zero targets.

In addition to testing individual GPRs, we also considered the impact of a cluster of the GPRs materialising over the assessment period. By assessing the interconnectivities of our GPRs we have selected the risk cluster RWCS that poses the most significant threat to our viability. Our cluster RWCS is a catastrophic cyber-attack, contributing to a catastrophic asset failure and a significant safety event, causing a significant disruption of energy, and ultimately to a loss of our regulatory licences. The scenario is assumed to occur in our US NY gas businesses.

We considered the reputational and financial impacts for each scenario. The GPR relating to leadership capacity was not tested, as the Board did not feel this would threaten the viability of the Company within the five-year assessment period.

The Board assessed our reputational and financial headroom and reviewed GPR testing results using that headroom. The testing of risk clusters also included an assessment of the impact upon the business plan. No GPR or cluster was found to have an impact on the

viability of the Company over the five-year assessment period. Preventative and mitigating controls in place to minimise the likelihood of occurrence and/or financial and reputational impact are contained within our assurance system.

In assessing the impact of the GPRs on the Company, the Board has considered the fact that we operate in stable markets and the robust financial position of the Group, including the ability to sell assets, raise capital and suspend or reduce the payment of dividends.

Each Director was satisfied that they had sufficient information to judge the viability of the Company. Based on the assessment described above and on pages 28 – 32 the Directors have a reasonable expectation that the Company will be able to continue operating and meet its liabilities over the period to May 2027.

Principal risk	Viability scenario	Matters considered and overseen by the Board
<p>Cyber security: there is a risk that we are unable to adequately anticipate and manage disruptive forces on our systems because of a cyber-attack, poor recovery of critical systems or malicious external or internal parties.</p>	<p>Scenario 1 – A significant cyber-attack.</p> <p>Included in the risk cluster testing.</p> <p>£1.5 billion total cost impact.</p>	<p>The Board reviewed and discussed cyber security reports:</p> <ul style="list-style-type: none"> as part of digital immersion sessions in September 2021 and March 2022, which included the conflict in Ukraine and risk associated with cyber security posed by Russia. <p>The Audit & Risk Committee reviewed and discussed cyber security reports:</p> <ul style="list-style-type: none"> as part of a cyber risk deep dive at the Audit & Risk Committee in September 2021 and March 2022, including IAM updates.
<p>Significant disruption of energy: there is a risk that we fail to predict and respond to a significant disruption of energy supply.</p>	<p>Scenario 2 – Significant supply disruption event occurring in the US during peak season.</p> <p>Included in the cluster testing.</p> <p>£50 million total cost impact.</p>	<p>Two Board strategy sessions were held during the year covering:</p> <ul style="list-style-type: none"> energy transition in June 2021; the CEO's update on UK and US gas markets, amidst rising prices in October 2021; and a UK businesses overview in November 2021. <p>In addition, the following occurred:</p> <ul style="list-style-type: none"> The Finance Committee conducted a review of the black-swan event (Texas). The Audit & Risk Committee conducted a Risk Deep Dive in March 2022.
<p>Asset failure: there is a risk of a catastrophic asset failure leading to a significant safety or environmental event.</p>	<p>Scenario 3 – A significant process safety gas pipeline failure in the US.</p> <p>Included in the cluster testing.</p> <p>£3.14 billion total cost impact.</p>	<p>The Board reviewed and evaluated the current safety performance of the Company at each meeting during the year. In addition, there was:</p> <ul style="list-style-type: none"> an ET performance update in July 2021; a US Business overview evaluation in September 2021; a UK Businesses overview in November 2021, including WPD; and a leading indicators deep dive in May 2022. <p>Furthermore:</p> <ul style="list-style-type: none"> the Safety & Sustainability Committee conducted an Annual Safety Review in July 2021; and the IFA fire investigation was reviewed and discussed at the Safety & Sustainability Committee; with the insurance items discussed at the Finance Committee.
<p>COVID-19: there is a risk that we fail to respond to significant disruptive factors caused by the COVID-19 pandemic.</p>	<p>Scenario 6 – Inability to recover US COVID-19-related bad debts through future regulatory agreements.</p> <p>\$369 million net COVID-19 bad debt impact as at 31 March 2022.</p>	<ul style="list-style-type: none"> Board briefings including weekly update from the Chief Executive (CEO) and Chief Financial Officer (CFO) on our COVID-19 impacts and response. COVID-19 updates on operational issues, people absences and wellbeing to the Board; and Finance Committee consideration of liquidity. Review of our business continuity planning response and effectiveness of the crisis-management controls through a management exercise.

Principal risk

Satisfactory regulatory outcomes: there is a risk that we fail to influence future energy policies and secure satisfactory regulatory agreements.

Viability scenario

Scenario 4 – Poor outcome of future US rate case filings, and low performance under RIIO-T2 and RIIO-ED2.

£500 million cost impact from lower average allowed RoE in US rate cases.

£780 million cost impact from nil outperformance under RIIO-T2 and RIIO-ED2.

Matters considered and overseen by the Board

The Board received updates and performed reviews in relation to:

- the CMA appeal;
- WPD Regulatory strategy;
- NY Monitor;
- RIIO-T2 overview;
- US business overview evaluation;
- UK and US gas market amidst rising prices;
- the UK regulatory landscape and regulatory framework; and
- ESO future outlook.

Climate change: there is a risk that we fail to identify and/or deliver upon actions necessary to address the transitional impacts (from a changing energy system) of climate change on our business and demonstrate our leadership of climate change in the energy sector.

Scenario 7 – Not meeting our net zero targets.

No immediate financial impacts; various reputational impacts were considered.

The Board and its Committees discussed sustainability metrics and strategy to reflect and track our impact and progress, including:

- a bi-annual review of GPR climate change and climate risk, plus the energy policy environment in the UK;
- ESG discussions around energy transition and climate change, including investor expectations;
- a discussion on the climate resolution at the 2021 AGM;
- disclosures in line with the TCFD recommendations;
- the review and approval of the publication of the Responsible Business Charter;
- a review of GHG emissions performance by the Safety & Sustainability Committee; and
- active participation as a Principal Partner in COP26.

Political and societal expectations and perceptions: there is a risk that we do not position ourselves appropriately to political and societal expectations.

Scenario 5 – A breach of compliance rules for onshore competition in electricity transmission by UK ET. NY legislation and political relationships leading to loss of NY licences.

£400 million UK fines and penalties.

Reasonable (rate base) consideration for US assets.

The Board received updates and reviews in relation to:

- Western Link outcomes;
- the NY Monitor update and review meeting with NY Monitor;
- the US business overview evaluation;
- Audit & Risk Committee-led meetings which were specific to the Federal Investigation (Fraud and Bribery) during July to October 2021;
- COP26, leading up to the event in Glasgow;
- the Bid Defence Plan;
- the UK political landscape;
- UK and US gas markets amidst rising prices;
- a deep dive on the energy policy environment in the UK; and
- the short-, medium- and long-term impacts of the war in Ukraine.

Capability and leadership: there is a risk that we do not have capability and leadership capacity.

N/A

Capability and leadership is an integral part of the Board's vision and strategy. The Board's approach included:

- the approval of Board Committee changes which were made effective from 1 September 2021;
- regular leadership updates throughout the year, including a deep dive on leadership in September 2021;
- bi-annual updates on people matters;
- the People & Governance (P&G) Committee's consideration of the structure, size and composition of the Board and Committees (the P&G Committee also led on Board succession planning – identifying and proposing individuals to be Directors of the Company and establishing the criteria for new positions); and
- a review of the Diversity Policy.

Financial review

1

Revenue and profits

The vast majority of our revenues are set in accordance with our regulatory agreements (see pages 245 – 252), and are calculated based on a number of factors including investment in network assets, performance on incentives, allowed returns on equity and cost of debt, and customer satisfaction.

2

Cash flows

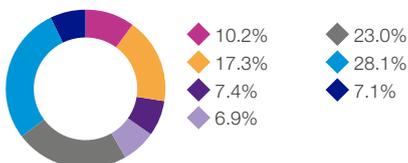
Our ability to convert revenue to profit and cash is important. By managing our operations efficiently, safely and for the long term, we generate substantial operating cash flows. Coupled with long-term debt financing, as well as additional capital generated through the take-up of the shareholder scrip dividend option during periods of higher investment, we are able to invest in growing our asset base and fund our dividends.

3

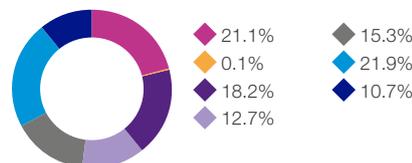
Investment

We invest efficiently in our networks to achieve strong and sustainable growth in our regulated asset base over the long term. We also invest in assets in our non-regulated businesses. We continually assess, monitor and challenge investment decisions so we can continue to run safe, reliable and cost-effective networks.

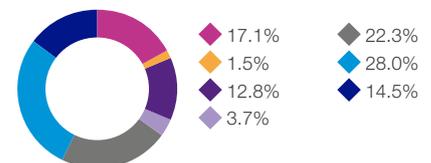
Revenue (%)



Statutory operating profit (%)



Capital investment (%)



◆ UK Electricity Transmission
 ◆ UK Electricity System Operator
 ◆ UK Electricity Distribution
 ◆ UK Gas Transmission
 ◆ New England
 ◆ New York
 ◆ National Grid Ventures and Other activities

Capital allocation

Our capital allocation is determined by the need to make the investments and outputs required under our regulatory frameworks in the UK and US (which accounted for over 90% of our capital expenditure in 2021/22), balanced with the desire to invest in our other businesses, such as NGV and NGP, which may achieve higher growth. The investments we make

seek a balance between growth through investments, such as the WPD acquisition, investments in our higher-growth NGV businesses and through NGP, and the continued growth of our steady cash flow core regulated operations, while ensuring we continue to deliver a consistent and reliable dividend to our shareholders.

Summary of Group financial performance

Performance management framework

In managing the business, we focus on various non-IFRS measures which provide meaningful comparisons of performance between years, monitor the strength of the Group's balance sheet as well as profitability and reflect the Group's regulatory economic arrangements. Such alternative and regulatory performance measures are supplementary to, and should not be regarded as a substitute for, IFRS measures, which we refer to as statutory results. We explain the basis of these measures and, where practicable, reconcile these to statutory results in 'Other unaudited financial information' on pages 268 – 279. Our regulatory performance measures have only been calculated for the total Group (or individual entities where relevant), as these are not based on IFRS measures.

Specifically, we measure the financial performance of the Group from different perspectives:

- **Capital investment and asset growth:** Currently we expect to invest c. £7 billion per year.
- **Accounting profit:** In addition to statutory IFRS measures we distinguish between adjusted results, which exclude exceptional items and remeasurements, and underlying results, which further take account of: (i) volumetric and other revenue timing differences arising from our regulatory contracts; and (ii) major storm costs, which are recoverable in future periods, neither of which give rise to economic gains or losses. In doing so, we intend to make the impact of such items clear to users of the financial information in this Annual Report.
- **Economic profit:** Measures such as Return on Equity (RoE) and Value Added take account of the regulated value of our assets and of our regulatory economic arrangements to illustrate the returns generated on shareholder equity.
- **Balance sheet strength:** Maintaining a strong investment grade credit rating allows us to finance our growth ambitions at a competitive rate. Hence, we monitor credit metrics used by the major rating agencies to ensure we are generating sufficient cash flow to service our debts.

This balanced range of measures of financial well-being informs our dividend policy, which from 2021/22 is to grow the dividend per share at least in line with rate of CPIH each year.

Summary of Group financial performance for the year ended 31 March 2022

Financial summary for continuing operations

Last year we announced that we would make a strategic pivot towards higher growth electricity. On 14 June 2021, we acquired Western Power Distribution plc (WPD) an electricity distribution business based in the South West of the UK. Our planned disposals of the Narragansett Electric Company (NECO) business in Rhode Island and UK Gas Transmission (and metering) are expected to complete during 2022/23. The combination of these transactions has resulted in a change to the Group's structure and a new organisational structure has been implemented.

As a result, the operating segments reported to our Board have changed from those reported in 2020/21. Our segmental reporting for continuing operations is aligned with our five regulated business units, along with National Grid Ventures (NGV) and Other non-regulated businesses. The UK Electricity System Operator is now separately reported from UK Electricity Transmission. The acquisition of WPD introduces a UK Electricity Distribution segment. Our US Regulated segment has been divided between the jurisdictions of New England and New York, to align more closely with our regulatory framework. Lastly, as part of the new organisational structure, our generation business on Long Island in New York is now reported as part of NGV.

The expected disposal in the third quarter of 2022/23 of a majority stake in our UK Gas Transmission businesses (including metering, which was previously reported within NGV) means that this business is now classified as a discontinued operation. The expected disposal of NECO does not meet the definition of a discontinued operation under IFRS, so is reported within New England as part of continuing operations. Both UK Gas Transmission and NECO are classified as held for sale in the balance sheet as at 31 March 2022. NECO was also reported as held for sale in the comparative balance sheet at 31 March 2021.

Unless otherwise stated, the following commentary and analyses are for the continuing operations of the Group (as defined by IFRS 5 'Non-current Assets Held for Sale and Discontinued Operations'). Within the Financial review, 'Total Group' refers to results and balances including discontinued or held for sale businesses (as defined by IFRS 5). Where applicable, comparative amounts have been restated accordingly.

Financial summary for continuing operations

£m	2021/22	2020/21	Change
Statutory results:			
Operating profit	4,371	2,401	82%
Profit after tax	2,183	1,304	67%
Earnings per share (pence)	60.6p	37.0p	64%
Dividend per share (pence), including proposed final dividend	50.97p	49.16p	4%
Capital expenditure	6,185	4,727	31%
Alternative performance measures:			
Underlying operating profit	3,992	2,688	49%
Underlying profit after tax	2,351	1,493	57%
Adjusted earnings per share (pence)	61.4p	36.7p	67%
Underlying earnings per share (pence)	65.3p	42.4p	54%
Underlying dividend cover	1.3	0.9	49%
Capital investment	6,739	4,843	39%

Financial summary total – including discontinued operations

£m	2021/22	2020/21	Change
Statutory results:			
Operating profit	5,008	2,895	73%
Profit after tax	2,354	1,641	43%
Earnings per share (pence)	65.4p	46.6p	40%
Capital expenditure	6,446	4,931	31%
Alternative performance measures:			
Adjusted operating profit, pre timing and major storm costs ¹	4,726	3,283	44%
Adjusted profit after tax, pre timing and major storm costs ¹	2,760	1,911	44%
Adjusted earnings per share (pence)	71.0p	46.4p	53%
Adjusted earnings per share, pre timing and major storm costs (pence)	76.7p	54.2p	42%
Capital investment	7,000	5,047	39%
Retained cash flow/adjusted net debt	8.9%	6.6%	230bps
Regulatory performance measures:			
Asset growth	8.7%	5.6%	310bps
Group Return on Equity ²	11.4%	10.6%	80bps
Value Added	3,833	1,808	112%
Regulatory gearing	81%	65%	1600bps

1. Comparable to 'underlying' results, but including discontinued operations.
2. Group RoE methodology amended in 2021/22 to calculate accretion charge on inflation-linked debt at long-run inflation rates. This provides alignment to treatment of RAV indexation in the metric. Prior year comparatives have not been restated.

Statutory results from continuing operations of £2,183 million were up £879 million from the prior year. Statutory EPS for continuing operations of 60.6p was 23.6p higher than the prior year. The Group's statutory results for the year were impacted by net exceptional charges of £320 million (2021: £52 million net charge) and remeasurement gains of £292 million (2021: £62 million gains). Our 'adjusted' results exclude exceptional items, but are impacted by revenue timing and major (deferrable) storm costs, as explained on page 39. Our 'underlying' results are presented excluding the total impact of exceptional items, remeasurements, timing and major storm costs. A reconciliation between these alternative performance measures and our statutory performance is detailed on page 38 and in the section 'Other unaudited financial information' on pages 268 – 279.

Financial review continued

Underlying operating profit for continuing operations was up 49%, driven by the acquisition of WPD, improved performance in NGV, NG Partners and UK Electricity Transmission, along with higher property sales, no depreciation on NECO in New England (held for sale treatment) and a lower adverse impact from COVID-19 compared with 2020/21. Our joint ventures and associates contribution increased (mainly UK interconnector revenues). These factors were partly offset by higher net financing costs from both inflation on RPI-linked debt and interest on a higher level of borrowings related to the acquisition of WPD. Other interest was favourable year-on-year. The tax charge was higher driven by increased taxable profits and additional deferred tax charges in the UK and the US. Underlying profit after tax increased by 57% and resulted in a 54% increase in underlying EPS to 65.3p.

Profit after tax for discontinued operations of £171 million was down £166 million compared with the prior year principally due to exceptional

Profitability and earnings

The table below reconciles our statutory profit measures for continuing operations, at actual exchange rates, to adjusted and underlying versions.

Reconciliation of profit and earnings from continuing operations

£m	Operating profit			Profit after tax			Earnings per share		
	2021/22	2020/21	Change	2021/22	2020/21	Change	2021/22	2020/21	Change
Statutory results	4,371	2,401	82%	2,183	1,304	67%	60.6p	37.0p	64%
Exceptional items	(166)	60		320	52		8.9p	1.5p	
Remeasurements	(392)	(34)		(292)	(62)		(8.1)p	(1.8p)	
Adjusted results	3,813	2,427	57%	2,211	1,294	71%	61.4p	36.7p	67%
Timing	16	111		19	88		0.5p	2.5p	
Major storm costs	163	150		121	111		3.4p	3.2p	
Underlying results	3,992	2,688	49%	2,351	1,493	57%	65.3p	42.4p	54%

Reconciliation of profit and earnings from discontinued operations

Statutory operating profit for discontinued operations of £637 million (2021: £494 million) includes £17 million of exceptional items (2021: £5 million) and timing under-recovery of £80 million (2021: £96 million). Depreciation of the assets in UK Gas Transmission was ceased following reclassification to held for sale (in accordance with IFRS 5) on 1 September 2021. Tax on exceptional items for discontinued operations comprises a £1 million credit in respect of other exceptional items (2021: £nil) and a deferred tax exceptional charge related to the change in the UK corporation tax rate of £145 million (2021: £nil). In our adjusted results for discontinued operations, tax on timing was £15 million (2021: £18 million). Statutory earnings per share from discontinued operations was 4.8p (2021: 9.6p) and underlying earnings per share from discontinued operations was 11.4p (2021: 11.8p).

Exceptional income/(expense) from continuing operations

£m	Impact on operating profit		Impact on profit after tax		Impact on EPS	
	2021/22	2020/21	2021/22	2020/21	2021/22	2020/21
Environmental insurance recovery and change in environmental provisions	38	14	28	11	0.8p	0.3p
Transaction and separation costs	(223)	(24)	(204)	(24)	(5.7)p	(0.7)p
New operating model implementation costs	(66)	(50)	(52)	(39)	(1.4)p	(1.1)p
Net gain on disposal of St William joint venture and release of deferred income	417	—	366	—	10.1p	—p
Deferred tax arising on the change in UK corporation tax rate	—	—	(458)	—	(12.7)p	—p
Total	166	(60)	(320)	(52)	(8.9)p	(1.5)p

This year we have classified the following items as exceptional:

- **Environmental insurance recovery:** a £38 million gain related to an insurance receivable for site remediation costs related to our US Superfund sites environmental provision, recorded as exceptional in line with the treatment of the related costs;
- **Transaction and separation costs:** £223 million of transaction costs associated with the acquisition of Western Power Distribution (WPD), the sale of NECO and the sale of UK Gas Transmission (2021: £24 million);
- **New operating model implementation costs and efficiency programme:** £66 million of costs in relation to the design and implementation of our new operating model that is designed to transform our operating framework (2021: £50 million);
- **Gain on disposal of St William property joint venture and release of deferred income:** £228 million gain on the divestment of a 50% interest in an equity investment in March 2022 along with release of £189 million of deferred income arising on historical sales made to that joint venture; and
- **Change in UK corporation tax rate:** a £458 million deferred tax charge for the increase in UK corporation tax rate from 19% to 25% which takes effect from 1 April 2023.

In the prior year we also classified as exceptional the £14 million credit for partial release of US environmental provisions previously treated as exceptional.

We also exclude certain unrealised gains and losses on mark-to-market financial instruments from adjusted profit; see notes 5 and 6 to the financial statements for further information. Net remeasurement gains of £392 million on commodity contract derivatives (i.e. 'mark-to-market' movements on derivatives used to hedge the cost of buying wholesale gas and electricity on behalf of our US customers) occurred during the year, in addition to net remeasurement gains of £59 million on financing-related instruments (used to hedge interest and currency risk on net borrowings); along with a further £56 million of remeasurement losses related to our share of post-tax results of joint ventures.

The expected future exceptional costs related to the new operating model and cost efficiency programme are expected to be in the region of £100 million.

Exceptional items for discontinued operations

Discontinued operations includes an exceptional item of £17 million (2021: £5 million) related to cost efficiency programme and separation costs ahead of the sale of the UK Gas Transmission and Metering business.

Timing over/(under)-recoveries

In calculating underlying profit, we exclude regulatory revenue timing over- and under-recoveries and major storm costs (as defined below). Under the Group's regulatory frameworks, most of the revenues we are allowed to collect each year are governed by regulatory price controls in the UK and rate plans in the US. If more than this allowed level of revenue is collected, an adjustment will be made to future prices to reflect this over-recovery; likewise, if less than this level of revenue is collected, an adjustment will be made to future prices in respect of the under-recovery. We also collect revenues from customers and pass these on to third parties (e.g. NYSERDA). These variances between allowed and collected revenues and timing of revenue collections for pass-through costs give rise to over- and under-recoveries.

The following table summarises management's estimates of such amounts for the two years ended 31 March 2022 for continuing and discontinued operations. All amounts are shown on a pre-tax basis and, where appropriate, opening balances are restated for exchange adjustments and to correspond with subsequent regulatory filings and calculations. All amounts are translated at the current year average exchange rate of \$1.35:£1.

£m	2021/22	2020/21 ¹
Balance at start of year (restated)	43	259
In-year (under)/over-recovery – continuing operations	(16)	(111)
In-year (under)/over-recovery – discontinued operations	(80)	(96)
Balance at end of year	(53)	52

1. March 2021 balances restated for segmental changes and to correspond with 2020/21 regulatory filings and calculations.

In 2021/22, we experienced timing under-recoveries of £85 million in UK Electricity Transmission, over-recoveries of £22 million in UK Electricity Distribution, under-recoveries of £47 million in UK Electricity System Operator, under-recoveries of £32 million in New England and over-recoveries of £126 million in New York. In calculating the post-tax effect of these timing recoveries, we impute a tax rate, based on the regional marginal tax rates, consistent with the relative mix of UK and US balances.

Major storm costs

We also take account of the impact of major storm costs in the US where the aggregate amount is sufficiently material in any given year. Such costs (net of certain deductibles and allowances) are recoverable under our rate plans but are expensed as incurred under IFRS. Accordingly, where the net total incurred cost exceeds \$100 million in any given year, we exclude the net costs from underlying earnings. In 2021/22, we incurred deferrable storm costs, which are eligible for future recovery of \$220 million (2021: \$201 million).

Segmental operating profit

The tables below set out operating profit on adjusted and underlying bases.

Adjusted operating profit

£m	2021/22	2020/21	Change
UK Electricity Transmission	1,067	1,094	(2)%
UK Electricity Distribution	909	—	n/a
UK Electricity System Operator	7	(60)	(112)%
New England	743	611	22%
New York	780	665	17%
NGV and Other activities	307	117	162%
Continuing operations	3,813	2,427	57%
Discontinued	654	499	31%
Total	4,467	2,926	53%

Underlying operating profit

£m	2021/22	2020/21	Change
UK Electricity Transmission	1,152	1,052	10%
UK Electricity Distribution	887	—	n/a
UK Electricity System Operator	54	70	(23)%
New England	886	727	22%
New York	706	722	(2)%
NGV and Other activities	307	117	162%
Continuing operations	3,992	2,688	49%

Statutory operating profit increased in the year, primarily as a result of the 9.5 months' contribution from WPD, the exceptional gain on disposal of our St William joint venture, higher UK Electricity Transmission revenues, increased interconnector revenues and fair value gains in NG Partners, no depreciation of our Rhode Island business and a lower adverse impact from COVID-19 compared with 2020/21. These benefits were partly offset by higher exceptional charges than in 2020/21 along with adverse year-on-year movements on timing recoveries. The reasons for the movements in underlying operating profit are described in the segmental commentaries below. Unless otherwise stated, the discussion of performance in the remainder of this Financial review focuses on underlying results.

UK Electricity Transmission

£m	2021/22	2020/21	Change
Revenue	2,035	1,974	3%
Operating costs	(980)	(894)	10%
Statutory operating profit	1,055	1,080	(2)%
Exceptional items	12	14	(14)%
Adjusted operating profit	1,067	1,094	(2)%
Timing	85	(42)	(302)%
Underlying operating profit	1,152	1,052	10%

Analysed as follows:

Net revenue	1,883	1,823	3%
Regulated controllable costs	(227)	(192)	18%
Post-retirement benefits	(26)	(32)	(19)%
Other operating costs	(55)	(44)	25%
Depreciation and amortisation	(508)	(461)	10%
Adjusted operating profit	1,067	1,094	(2)%
Timing	85	(42)	(302)%
Underlying operating profit	1,152	1,052	10%

UK Electricity Transmission statutory operating profit was £25 million lower in the year, mainly due to adverse year-on-year timing movements. In 2021/22, there were £12 million of exceptional costs related to establishing our new operating model (2021: £14 million). Timing under-recoveries of £85 million in 2021/22 compared with over-recoveries of £42 million in 2020/21 are primarily due to the under-recovery of pass-through costs, inflation true-ups and last year's collection of prior period under-recoveries, partly offset by an over-collection of Transmission Network Use of System (TNUoS) revenues in the current year.

Adjusted operating profit reduced by £27 million (2%), but this included £127 million adverse year-on-year timing movements. Underlying operating profit increased by 10%. Net revenues (adjusted for timing) were higher under the first year of RIIO-T2, with indexation and lower totex capitalisation rates (increased 'fast money') offsetting the lower returns in the current year. In the prior year, revenue was impacted by an adverse MOD adjustment in the final year of the RIIO-T1 price control.

Regulated controllable costs were higher from additional workload agreed for RIIO-T2, inflationary increases and the non-recurrence of favourable credits in 2020/21, which more than offset 2021/22 efficiency savings and the absence of prior period COVID-19-related costs. Other costs were higher, mainly relating to a £10 million settlement related to Western Link.

The increase in depreciation and amortisation reflects continued investment. In 2021/22, a benefit arising from the review of assets' useful economic lives was broadly offset by asset write-offs.

Financial review continued

UK Electricity Distribution

£m	2021/22	2020/21	Change
Revenue	1,482	—	n/a
Operating costs	(573)	—	n/a
Statutory operating profit	909	—	n/a
Exceptional items	—	—	n/a
Adjusted operating profit	909	—	n/a
Timing	(22)	—	n/a
Underlying operating profit	887	—	n/a
Analysed as follows:			
Net revenue	1,357	—	n/a
Regulated controllable costs	(180)	—	n/a
Post-retirement benefits	(24)	—	n/a
Other operating costs	(86)	—	n/a
Depreciation and amortisation	(158)	—	n/a
Adjusted operating profit	909	—	n/a
Timing	(22)	—	n/a
Underlying operating profit	887	—	n/a

'UK Electricity Distribution' refers to WPD, which was acquired on 14 June 2021. The results presented are for the 9.5-month period of ownership and no amounts for WPD are included in the consolidated results of the Group for year ended 31 March 2021.

Statutory operating profit of £909 million for the 9.5 months included £22 million of timing over-recoveries of 'Distribution Use of System' (DUoS) volumes and the adverse impact on our revenues from UK corporation tax capital allowance 'super deductions', partly offset by an under-collection of earned incentives and inflation true-ups. Excluding timing, underlying profit was £887 million for the 9.5 months of ownership since June 2021. Controllable costs and post-retirement benefit costs of £204 million were lower than the estimated equivalent period in the prior year, mainly as a result of the disruption arising from COVID-19 during 2020/21. These costs include engineering management costs, supporting our customers and the maintenance of our four electricity distribution networks, including activities such as vegetation management in order to prevent line damage. Depreciation and amortisation charges include amortisation of fair value adjustments applied to property, plant and equipment (PP&E) at the date of acquisition.

UK Electricity System Operator

£m	2021/22	2020/21	Change
Revenue	3,455	2,018	71%
Operating costs	(3,450)	(2,071)	67%
Statutory operating profit/(loss)	5	(53)	(109)%
Exceptional items	2	(7)	(129)%
Adjusted operating profit/(loss)	7	(60)	(112)%
Timing	47	130	(64)%
Underlying operating profit	54	70	(23)%
Analysed as follows:			
Net revenue	240	107	124%
Controllable costs	(129)	(99)	30%
Post-retirement benefits	(16)	(13)	23%
Other operating costs	(5)	(9)	(44)%
Depreciation and amortisation	(83)	(46)	80%
Adjusted operating profit/(loss)	7	(60)	(112)%
Timing	47	130	(64)%
Underlying operating profit	54	70	(23)%

UK Electricity System Operator statutory operating profit increased £58 million in the year. In 2021/22 there were £2 million of exceptional costs related to establishing our new operating model, compared to a £7 million credit related to release of previous reorganisation provisions in the prior year. Timing under-recoveries of £47 million in 2021/22 compared with under-recoveries of £130 million in the prior year. Timing in 2021/22 predominately included £44 million for the Balancing Services Use of System (BSUoS) price cap deferral support scheme compared with £109 million in 2020/21 for TNuoS demand under-recovery during COVID-19 and £22 million for the BSUoS Covid Support Scheme.

Adjusted operating profit increased by £67 million almost entirely driven by the £83 million year-on-year timing movement, partly offset by asset impairments. Excluding the impact of timing, underlying operating profit decreased by 23%. Net revenue (adjusted for timing) was £50 million higher, reflecting higher revenues under RIIO-2 related to additional workload agreed under the new price control and higher earned incentives. Regulated controllable costs including pensions were £33 million higher in total, in line with the expected higher volume of work required to deliver the ambitious RIIO-2 business plan. Depreciation and amortisation was £37 million higher as a result of our investment in transformational IT systems, in addition to asset impairments for work that may no longer be required.

New England

£m	2021/22	2020/21	Change
Revenue	4,550	4,214	8%
Operating costs	(3,786)	(3,600)	5%
Statutory operating profit	764	614	24%
Exceptional items	80	8	900%
Remeasurements	(101)	(11)	818%
Adjusted operating profit	743	611	22%
Timing	32	11	191%
Major storm costs	111	105	6%
Underlying operating profit	886	727	22%
Analysed as follows:			
Net revenue	2,500	2,430	3%
Regulated controllable costs	(813)	(810)	—
Post-retirement benefits	(40)	(43)	(7)%
Bad debt expense	(45)	(127)	(65)%
Other operating costs	(494)	(450)	10%
Depreciation and amortisation	(365)	(389)	(6)%
Adjusted operating profit	743	611	22%
Timing	32	11	191%
Major storm costs	111	105	6%
Underlying operating profit	886	727	22%

New England statutory operating profit increased by £150 million, as a result of the £90 million year-on-year favourable movements in commodity contract remeasurements (which are passed on to customers), mostly offset by exceptional charges booked in the current year for the disposal of our Rhode Island business and the cost efficiency programme. In 2020/21, exceptional charges were lower, comprising £8 million of costs related to establishing our new operating model and transaction costs. Timing under-recoveries of £32 million in 2021/22 compared with timing under-recoveries of £11 million in 2020/21, related to revenue decoupling and recovery of cost on our energy efficiency programme. Storm costs (deferrable and non-deferrable) were broadly flat year-on-year, with a lower number of storm events occurring during 2021/22, but a higher 'per storm' cost. These factors, along with an adverse impact from COVID-19 in the prior year and exchange movements, resulted in an overall increase in statutory operating profit and adjusted operating profit.

Adjusted operating profit increased by £132 million (22%), including £21 million year-on-year adverse timing under-recoveries. Major storm costs of £111 million exceed our threshold to be excluded from underlying, but were a repeat of the high level of deferrable storm costs we incurred in 2020/21. Underlying operating profit increased by 22%. Net revenues (adjusted for timing) increased by £91 million from the benefits of rate case increments in Massachusetts Gas and Massachusetts Electric, capital trackers and higher revenues from new customer connections along with income from sale of property. New England controllable costs were held broadly flat year-on-year, with increases from higher workload, IT costs and inflationary impacts, being mostly offset by efficiency savings, favourable settlements and non-recurrence of costs incurred in the prior period including COVID-19 disruption costs. Provisions for bad and doubtful debts of £45 million were £82 million lower than 2020/21, which had additional provision for receivables related to the impact of COVID-19. Depreciation and amortisation increased due to the growth in assets, but was more than offset by a benefit from cessation of depreciation in NECO as a result of it being reclassified to held for sale. Other costs were higher due to increased property taxes and increases in environmental reserves.

New York

£m	2021/22	2020/21	Change
Revenue	5,561	4,605	21%
Operating costs	(4,466)	(3,910)	14%
Statutory operating profit	1,095	695	58%
Exceptional items	(24)	(7)	n/a
Remeasurements	(291)	(23)	n/a
Adjusted operating profit	780	665	17%
Timing	(126)	12	n/a
Major storm costs	52	45	16%
Underlying operating profit	706	722	(2)%
Analysed as follows:			
Net revenue	3,400	3,136	8%
Regulated controllable costs	(963)	(981)	(2)%
Post-retirement benefits	(44)	(47)	(6)%
Bad debt expense	(87)	(198)	(56)%
Other operating costs	(989)	(792)	25%
Depreciation and amortisation	(537)	(453)	19%
Adjusted operating profit	780	665	17%
Timing	(126)	12	n/a
Major storm costs	52	45	16%
Underlying operating profit	706	722	(2)%

New York statutory operating profit increased by £400 million, principally as a result of the £268 million year-on-year favourable movements in commodity contract remeasurements (which are passed on to customers) and net exceptional gains including £38 million environmental insurance recovery for costs related to our obligations to clean up Superfund sites, compared to a £14 million environmental credit (reversal of cost previously booked as exceptional) in the prior year. Timing over-recoveries of £126 million in 2021/22 compared with timing under-recoveries of £12 million in 2020/21, driven by commodity price fluctuations and high auction sale prices on transmission wheeling. Major (i.e. deferrable) storm costs of £52 million were £7 million higher year-on-year, but as in 2020/21, the total costs passed our threshold (\$100 million in aggregate with New England) and so are excluded from our underlying results. These factors, along with a prior year adverse impact from COVID-19 disruption resulted in an overall increase in statutory operating profit and in adjusted operating profit.

Adjusted operating profit increased by £115 million (17%), aided by £138 million year-on-year favourable timing swings and lower year-on-year impact of COVID-19, but partly offset by higher environmental charges in 2021/22. After further adjusting to exclude the impact of timing and major storm costs, underlying operating profit decreased by 2%. Net revenues (adjusted for timing) increased by £126 million from the benefits of rate case increases in KEDNY, KEDLI and Niagara Mohawk (partly offset by use of deferral credits to reduce the impact on customer bill increases and a 'make whole' adjustment for the rate case settlement in downstate New York). Regulated controllable costs were lower year-on-year, with increased workload and IT costs and also inflationary impacts, more than offset by cost efficiency savings, favourable credits in 2021/22 and the non-recurrence of costs arising in 2020/21. Provisions for bad and doubtful debts decreased by £111 million, driven by 2020/21's additional provision for receivables related to the impact of COVID-19. Depreciation and amortisation increased due to the growth in assets and the accelerated depreciation of certain gas assets and IT systems. Other costs were higher due to an increase in environmental provisions (mostly driven by inflation), increased property taxes, cost of removal and customer funded work, partly offset by receipt of a historical property tax refund.

NGV and Other activities

£m	2021/22	2020/21	Change
Statutory operating profit	543	65	735%
Exceptional items	(236)	52	(554)%
Adjusted operating profit	307	117	162%
Timing	—	—	n/a
Underlying operating profit	307	117	162%
Analysed as follows:			
NGV	286	185	55%
Property	40	22	82%
Corporate and Other activities	(19)	(90)	(79)%
Underlying operating profit	307	117	162%

NGV's statutory operating profits were £100 million higher than 2020/21, driven by higher interconnector revenues, which benefited from a full year's contribution from our second French interconnector (IFA2) and the commissioning of North Sea Link earlier than expected, along with the impact of higher commodity prices and increased revenues in our onshore renewables in the US. These were partly offset by a write-down for assets damaged by a fire at Sellindge in September 2021, which caused an unplanned outage for our legacy French interconnector (IFA1) and a £3 million exceptional charge in relation to establishing our new operating model (2021: £2 million).

In Other activities, we incurred an exceptional gain of £417 million related to the disposal of our 50% interest in the St William property joint venture and release of associated deferred income on historical sales made to the joint venture. We also incurred an exceptional charge of £22 million related to establishing our new operating model (2021: £26 million), £95 million (2021: £24 million) of transaction costs for the acquisition of WPD, and £61 million of costs incurred for the separation of NECO and UK Gas Transmission. In 2021/22, underlying operating profit of £21 million (including corporate costs), compared with net costs of £68 million in 2020/21. This increase included benefits from higher fair value gains on our NG Partners investments and the release of an aged liability related to historical balances for unclaimed dividends in the Group. Excluding the gain on disposal of St William, the underlying performance of the property business was up £18 million, driven by increased sales compared with 2020/21.

Financial review continued

Financing costs and taxation – continuing

Net finance costs

Net finance costs (excluding remeasurements) for the year were 25% higher than last year at £1,081 million, with the £216 million increase driven by interest costs of £130 million (net of amortisation of debt fair value adjustments) for debt acquired with WPD, £99 million of interest and fees for £8 billion of additional borrowings used to finance the acquisition, a £145 million impact of higher inflation on our RPI-linked debt and an increase in borrowings as a result of organic asset growth. These higher costs were partly offset by favourable year-on-year non-debt interest income, with benefits from interest on pension and other post-employment benefit (OPEB) liabilities, increased capitalised interest and higher levels of other interest income from US financial investments compared with 2020/21. The effective interest rate for continuing operations of 3.2% is in line with the prior year rate.

Joint ventures and associates

The Group's share of net profits from joint ventures and associates increased by £82 million compared with 2020/21, mainly as a result of higher interconnector revenues in both Nemo Link up £37 million and in BritNed up £28 million and higher sales in our St William property joint venture (prior to disposal of this investment in March 2022) and an improved contribution from our joint venture investment in NG Partners.

Tax

The underlying effective tax rate (excluding joint ventures and associates) of 24.3% was 260bps higher than last year (2020/21: 21.7%). The tax charge in 2021/22 included additional deferred tax charges in the UK for the change in the UK corporation tax rate and the unitary state deferred tax remeasurement which occurred as a result of the expected sale of our Rhode Island business in the US. The Group's tax strategy is detailed later in this review.

Discontinued operations

On 27 March 2021, we announced the agreed sale of 100% of our UK Gas Transmission business (including metering) to a new entity (the 'Acquiring Entity') in exchange for £2.2 billion cash consideration, £2.0 billion of debt financing and a 40% interest in the Acquiring Entity on completion. The other 60% in the Acquiring Entity will be owned by a consortium of Macquarie Infrastructure and Real Assets and British Columbia Investment Management Corporation. The sale is expected to complete in the third quarter of this financial year subject to the receipt of all regulatory approvals. The results of our 100% share of this business (including metering) are presented as 'discontinued operations' in 2021/22, with comparatives restated accordingly. On 1 September 2021, this business met the IFRS 5 criteria to be classified as held for sale and depreciation was stopped from that date. As described in note 10 to the financial statements, separation and transaction costs relating to the disposal of this business are included within discontinued operations.

UK Gas Transmission (including metering)

£m	2021/22	2020/21	Change
Revenue	1,374	1,122	22%
Operating costs	(737)	(628)	17%
Statutory operating profit	637	494	29%
Exceptional items	17	5	240%
Adjusted operating profit	654	499	31%
Timing	80	96	(17)%
Adjusted operating profit (excluding timing)	734	595	23%
Analysed as follows:			
Net revenue	977	889	10%
Regulated controllable costs	(160)	(157)	2%
Post-retirement benefits	(17)	(18)	(6)%
Other operating costs	(55)	(28)	96%
Depreciation and amortisation	(91)	(187)	(51)%
Adjusted operating profit	654	499	31%
Timing	80	96	(17)%
Adjusted operating profit (excluding timing)	734	595	23%

UK Gas Transmission statutory operating profit increased £143 million in the year. In 2021/22, there were £14 million of costs incurred in separating the business from the Group and transaction-related costs in preparation of the sales process; and £3 million (2021: £5 million) of exceptional costs related to the reorganisation and cost efficiency programme. Timing under-recoveries of £80 million arose in 2021/22, mainly related to recovery of shrinkage costs from higher gas prices. This compared with under-recoveries of £96 million in the prior year from under-collections relating to the change to the gas capacity charging regime and lower demand, partly offset by a lower return of prior period over-recoveries.

Adjusted operating profit increased by £155 million (31%), including £16 million less adverse timing year-on-year. Excluding the impact of timing, adjusted operating profit increased by 23%, mostly from the cessation of depreciation since 31 August 2021, when the business was classified as held for sale. In 2021/22, depreciation of £91 million was £96 million lower than the prior year. Net revenue was £88 million higher, reflecting new prices under RIIO-T2 and the impact of the change to CPIH and regulatory depreciation profile change under the new price control. Regulated controllable costs (including pensions) and other costs were £29 million higher as a result of increased customer-funded works, higher Network Innovation Competition costs, higher meter displacements and a beneficial provision release in the prior period.

Within UK Gas Transmission, our non-regulated metering business's operating profit of £150 million was in line with the prior year, with the benefit from lower depreciation being offset by the adverse impact of fewer meters as these are being phased out and replaced by smart meters.

Capital investment, asset growth and Value Added

Value Added is a measure that reflects the value to shareholders of our dividend and the growth in National Grid's regulated and non-regulated assets (as measured in our regulated asset base, for regulated entities), net of the growth in overall debt. It is a key metric used to measure our performance and underpins our approach to sustainable decision-making. Value Growth, which is derived from Value Added, forms part of our long-term management incentive arrangements.

A key part of our investor proposition is growth in our regulated asset base. The regulated asset base is a regulatory construct, representing the invested capital on which we are authorised to earn a cash return. By investing efficiently in our networks, we add to our regulatory asset base over the long term and this in turn contributes to delivering shareholder value. Our regulated asset base comprises our regulatory asset value in the UK, plus our rate base in the US. We also invest in related activities that are not subject to network regulation and this further contributes to asset growth.

Capital investment

Capital investment comprises capital expenditure in critical energy infrastructure, equity investments, funding contributions and loans to joint ventures and associates and, in the case of National Grid Partners, investments in financial assets.

£m	At actual exchange rates			At constant currency		
	2021/22	2020/21	Change	2021/22	2020/21	Change
UK Electricity Transmission	1,195	984	21%	1,195	984	21%
UK Electricity Distribution	899	—	n/a	899	—	n/a
UK Electricity System Operator	108	88	23%	108	88	23%
New England	1,561	1,437	9%	1,561	1,429	9%
New York	1,960	1,738	13%	1,960	1,729	13%
NGV and Other activities	1,016	596	70%	1,016	596	70%
Continuing	6,739	4,843	39%	6,739	4,826	40%
Discontinued	261	204	28%	261	204	28%
Total Group	7,000	5,047	39%	7,000	5,030	39%

Capital investment in UK Electricity Transmission increased by £211 million compared with 2020/21, primarily due to London Power Tunnels 2 and Hinkley-Seabank, partly offset by lower Smartwires spend. The acquisition of WPD during the year resulted in a £899 million increase in reported capital investment year-on-year. In New England, capital investment was up £132 million on a constant currency basis, reflecting higher spend on gas assets driven by decreased COVID-19 restrictions compared with 2020/21 and higher investment in electric assets related to asset condition. In New York, capital investment was £231 million higher (on a constant currency basis), as a result of accelerated leak-prone pipe replacement work in our gas businesses, investment in Northwest Nassau connection, higher investment in our electric assets to reinforce the network and increase capacity and reliability, investment in SmartPath Connect and Energy Highway, and decreased COVID-19 restrictions compared with 2020/21. Capital investment in NGV was significantly higher than in 2020/21, with continued investment in the Viking Link interconnector (Denmark), increased spend on our Grain LNG facility, partly offset by completion of the North Sea Link interconnector (Norway) this year, but a £373 million step up in US Ventures' capital investment, including purchase of a 3.2 GW potential offshore wind seabed lease in New York. In addition, a total amount of £93 million was invested by National Grid Partners in 2021/22, compared to £38 million in the prior year.

In UK Gas Transmission, capital investment increased by £57 million from non-load spend, with increased work at St Fergus, continued investment at Peterborough and Huntingdon compressor stations, increased investment at Hatton and higher cyber spend compared to 2020/21.

Asset Growth and Value Added

To help readers' assessment of the financial position of the Group, the table below shows an aggregated position for the Group, as viewed from a regulatory perspective. The measures included in the table below are calculated in part from financial information used to derive measures sent to and used by our regulators in the UK and US, and accordingly inform certain of the Group's regulatory performance measures, but are not derived from, and cannot be reconciled to, IFRS. These alternative performance measures include regulatory assets and liabilities and certain IFRS assets and liabilities of businesses that are classified as held for sale under IFRS 5.

There are certain significant assets and liabilities included in our IFRS balance sheet, which are treated differently in the analysis below, and to which we draw readers' attention. Our UK OpCo RAVs are different to the IFRS carrying value of PP&E and intangibles in these entities. This is a result of the annual indexation (inflationary uplift) adjustment applied to RAV compared with the IFRS value of these assets (which are held at amortised cost), or in the case of WPD, the result of acquisition fair value adjustments (where PP&E at acquisition has been valued above RAV). In addition, under IFRS we recognise liabilities in respect of US environmental remediation costs, and pension and OPEB costs. For regulatory purposes, these are not shown as obligations because we are entitled to full recovery of costs through our existing rate plans. The impact of US tax reform in 2017/18 which resulted in a reduction in IFRS deferred tax liabilities, and from a regulatory perspective remains as a future obligation, results in a regulatory liability within US rate base (£0.7 billion in New England and £0.9 billion in New York at 31 March 2022). In our Value Added calculation, we have recognised an asset to reflect expected future recovery of £202 million COVID-19-related provision for bad and doubtful debts that we have included in 2021/22 (2021: £179 million). Regulatory IOUs which reflect net over- or under-recoveries compared with our regulatory allowances are treated within this table as obligations but do not qualify for recognition as liabilities (or assets) under IFRS. The increase in regulatory assets and other balances (including goodwill) and the increase in net debt as a result of the WPD acquisition along with associated transaction costs have been excluded when calculating the in-year Value Added for 2021/22. However, these balances are included within amounts reported as at 31 March 2022. Adjusted net debt movements exclude movements on derivatives which are designated in cash flow hedging arrangements and for which there is no corresponding movement in total assets and other balances. Within our Value Added calculation, total assets and other balances, goodwill and adjusted net debt movement all exclude the impact of reclassifications to held for sale for NECO in 2020/21 and the UK Gas business in 2021/22. Separation and transaction costs related to the disposal of these entities are also excluded from in-year Value Added and have been deferred to match against the anticipated proceeds on disposal of these businesses in 2022/23.

Financial review continued

The table below includes related balances and net debt for UK Gas Transmission and Metering and NECO, despite being reclassified as held for sale under IFRS.

£m	2021/22					2020/21		
	31 March 2022	Acquisition of WPD ¹	31 March 2021 ²	Value Added	Change	31 March 2021	31 March 2020	Change
UK RAV	31,593	8,476	20,876	2,241	11%	20,872	20,431	2%
US rate base	22,178	—	20,687	1,491	7%	20,041	18,598	8%
Total RAV and rate base	53,771	8,476	41,563	3,732	9%	40,913	39,029	5%
NGV and Other	5,226	—	4,920	306	6%	4,458	3,942	13%
Total assets	58,997	8,476	46,483	4,038	9%	45,371	42,971	6%
UK other regulated balances ³	84	230	(140)	(6)		(160)	(368)	
US other regulated balances ⁴	2,621	—	1,995	626		1,974	1,613	
Other balances	(878)	(168)	(336)	(374)		(336)	(514)	
Total assets and other balances	60,824	8,538	48,002	4,284		46,849	43,702	3,147
Cash dividends				922				1,413
Adjusted net debt movement ¹				(1,373)				(2,752)
Value Added				3,833				1,808

1. The acquisition of WPD on 14 June 2021 resulted in an increase in assets which has been excluded from the total change in the year used to calculate Asset Growth and Value Added for 2021/22. The increase in goodwill and intangible licence recognised on the acquisition of WPD and the associated fair value of net debt acquired and cash proceeds (along with associated transaction costs) are excluded from the total adjusted net debt movement in the year used to calculate Asset Growth and Value Added.

2. March 2021 balances restated for segmental changes and to correspond with 2020/21 regulatory filings and calculations.

3. Includes totex-related regulatory IOUs of £271 million (2021: £293 million), under-recovered timing balances of £346 million (2021: £153 million over-recovered) and under-recovered legacy balances related to previous price controls of £9 million (2021: £nil).

4. Includes assets for construction work-in-progress of £2,139 million (2021: £1,671 million), other regulatory assets related to timing and other cost deferrals of £759 million (2021: £714 million) and net working capital liabilities of £277 million (2021: £390 million).

Figures relating to prior periods have, where appropriate, been re-presented at constant currency, for opening balance adjustments following the completion of the UK regulatory reporting pack process in 2021 and finalisation of US balances.

During 2021/22, our combined regulated asset base and NGV and Other businesses' assets grew by £4.0 billion or 9% on a constant currency basis compared with an increase of 6% in the prior year. UK RAV growth was 10.7% including CPIH indexation of 6.2% and RPI indexation of 9.0% while US rate base grew strongly by 7.2%.

Value Added, which reflects the key components of value delivery to shareholders (i.e. dividend and growth in the economic value of the Group's assets, net of growth in net debt) was £3.8 billion in 2021/22. This was higher than last year's £1.8 billion, with £1.0 billion of the year-on-year increase arising from higher RAV indexation in UK Transmission, £0.8 billion of RAV growth from WPD (for the 9.5 months owned in 2021/22), stronger NGV and Other performance, higher US returns and a smaller adverse impact from COVID-19 compared with 2020/21, offset by higher interest and increased tax paid. Of the £3.8 billion Value Added, £0.9 billion was paid to shareholders as cash dividends and £2.9 billion was retained in the business. Value Added per share was 106.5p compared with 51.3p in 2020/21.

Cash flow, net debt and funding

Net debt is the aggregate of cash and cash equivalents, borrowings, current financial and other investments and derivatives (excluding commodity contract derivatives) as disclosed in note 29 to the financial statements. 'Adjusted net debt' used for the RCF/adjusted net debt calculation is principally adjusted for pension deficits and hybrid debt instruments. For a full reconciliation see page 274. The following table summarises the Group's cash flow for the year, reconciling this to the change in net debt.

Summary cash flow statement

£m	2021/22	2020/21	Change
Cash generated from continuing operations	5,788	3,967	46%
Cash capital expenditure and acquisition of investments	(5,781)	(4,741)	22%
Disposal of St William joint venture	413	—	n/a
Dividends from joint ventures and associates	166	80	108%
Business net cash inflow/(outflow) from continuing operations	586	(694)	(184)%
Net interest paid	(1,013)	(737)	37%
Net tax paid	(298)	(91)	227%
Ordinary dividends	(922)	(1,413)	(35)%
Other cash movements	30	14	114%
Net cash outflow from continuing operations	(1,617)	(2,921)	(45)%
Acquisition of WPD ¹	(7,837)	—	n/a
Discontinued operations	657	408	n/a
Proceeds from bridge loan taken out to acquire WPD	8,200	—	n/a
Other net cash flows from investing and financing transactions	628	2,608	n/a
Increase/(decrease) in cash and cash equivalents	31	95	(67)%
Reconciliation to movement in net debt			
Increase/(decrease) in cash and cash equivalents	31	95	(67)%
Increase in borrowings for bridge loan	(8,200)	—	n/a
Less: other net cash flows from investing and financing transactions	(628)	(2,608)	n/a
Cash and borrowings reclassified as held for sale at end of year	4,063	1,119	n/a
Fair value of net debt acquired with WPD	(8,147)	—	n/a
Other non-cash movements in net debt	(1,382)	1,438	n/a
Increase in net debt	(14,263)	44	n/a
Net debt at start of year	(28,546)	(28,590)	—%
Net debt at end of year	(42,809)	(28,546)	50.0%

1. Includes £44 million cash and cash equivalents acquired with WPD

Cash flow generated from continuing operations was £5.8 billion, £1,821 million higher than last year, mainly due to the contribution from WPD, lower adverse year-on-year timing under-recoveries, higher revenues compared to 2020/21, higher spend on provisions and exceptional charges, offset by favourable working capital inflows on payables. Cash expended on investment activities increased as a result of continued organic growth in our regulated and non-regulated businesses, the impact of acquiring WPD, partly offset by disposal of financial investments.

The disposal of our St William investment in March 2022 generated £413 million of proceeds in the year. The cash acquisition of WPD in June 2021 for £7.9 billion increased net debt, along with a further £8.2 billion increase from the fair value of net debt acquired. Net interest paid increased as a result of the bridge loan taken out to finance the purchase of WPD, interest for borrowings acquired with WPD and increased base rates on borrowings. The Group made net tax payments of £298 million during 2021/22. The cash dividend of £922 million, reflected a higher scrip uptake of 48% (2021: 17%).

Discontinued operations represents UK Gas Transmission and Metering which generated higher cash inflows in 2021/22, principally as a result of improved year-on-year performance and no pension deficit payments in 2021/22. Non-cash movements primarily reflect changes in the sterling-dollar exchange rate, accretions on index-linked debt, lease additions and other derivative fair value movements, offset by the amortisation of fair value adjustments on the debt acquired with WPD. Closing net debt of £42.8 billion excludes £1.2 billion of net debt in NECO and £4.1 billion of net debt in NG Gas plc which has been classified as held for sale on 31 March 2022.

During the year we raised over £4.2 billion of new long-term senior debt to refinance maturing debt and to fund a portion of our significant capital programme. The new bonds issued include further borrowings under our Green Financing Framework. In addition, we raised £8.2 billion under a bridge financing facility to fund the purchase of the UK Electricity Distribution business. This bridge facility remained outstanding at 31 March 2022 as we continue to progress the sales of our US Rhode Island business and our UK Gas Transmission business. We expect the proceeds from these sales to be received, and for the bridge facility to be repaid in full, this financial year (2022/23).

As at 18 May 2022, we have £6.8 billion of undrawn committed facilities available for general corporate purposes, including £350 million related to National Grid Gas plc, all of which have expiry dates beyond May 2023. National Grid's balance sheet remains robust, with strong investment grade ratings from Moody's, Standard & Poor's (S&P) and Fitch.

The Board has considered the Group's ability to finance normal operations as well as funding a significant capital programme, taking account of the disruption caused by the energy crisis. This includes stress-testing of the Group's finances under a 'reasonable worst case' scenario, assessing the timing of the NECO and National Grid Gas plc transactions, and the further levers at the Board's discretion to ensure our businesses are adequately financed. As a result, the Board has concluded that the Group will have adequate resources to do so.

Financial review continued

Financial position

The following table sets out a condensed version of the Group's IFRS balance sheet.

Summary balance sheet

£m	31 March 2022	31 March 2021	Change
Goodwill and intangibles	12,804	6,031	112%
Property, plant and equipment	57,532	47,043	22%
Assets and liabilities held for sale	2,812	3,557	(21)%
Other net assets/(liabilities)	(334)	(1,896)	(82)%
Tax balances	(6,685)	(4,817)	39%
Net pension asset/(liabilities)	3,075	715	330%
Provisions	(2,539)	(2,227)	14%
Net debt	(42,809)	(28,546)	50%
Net assets	23,856	19,860	20%

Goodwill and intangibles increased as a result of the acquisition of WPD during the year. Property, plant and equipment increased as a result of the continuing capital investment programme, the acquisition of WPD and foreign exchange gains offset by reclassifications to held for sale. Assets held for sale comprises assets and liabilities of NECO and UK Gas Transmission (including metering) both of which we expect to sell during 2022/23 (see note 10 to the financial statements). Tax balances increased principally as a result of the acquisition of WPD, deferred tax on actuarial gains on pension assets, accelerated tax depreciation from ongoing capital investment and the impact of the UK tax rate change on deferred tax balances. Net pension assets increased in both the US and UK as a result of higher asset valuations from investment returns, higher discount rates on liabilities and foreign exchange movements along with the acquisition of WPD. Provisions were higher principally as a result of increases in environmental and other provisions, the impact of acquiring WPD and foreign exchange movements. Other movements are largely explained by net working capital inflows, reclassifications to held for sale, the impact of the acquisition of WPD and changes in the sterling-dollar exchange rate.

Regulatory gearing, measured as net debt as a proportion of total regulatory asset value and other business invested capital increased significantly in the year to 81% as at 31 March 2022. This was up from 65% at the previous year end, principally as a result of an £8 billion 'bridge loan' used to acquire the equity of WPD and £8 billion fair value of net debt acquired with WPD. The proceeds from the sales of NECO and UK Gas Transmission expected to occur in 2022/23 will be used to repay this loan, which would substantially reduce the level of gearing in the Group. Taking into account the benefit of our hybrid debt, adjusted gearing as at 31 March 2022 was 80%. Once this bridge loan is repaid, gearing should return to a level appropriate for the current overall Group credit rating of BBB+/Baa1 (S&P/Moody's).

Retained cash flow as a proportion of adjusted net debt was 8.9%. This is above the long-term average level of 7% indicated by Moody's, as consistent with maintaining our current Group rating.

Off-balance sheet items

There were no significant off-balance sheet items other than the commitments and contingencies detailed in note 30 of the financial statements.

Economic returns

In addition to Value Added, one of the principal ways in which we measure our performance in generating value for shareholders is to divide regulated financial performance by regulatory equity, to produce RoE.

As explained on page 274, regulated financial performance adjusts reported operating profit to reflect the impact of the Group's various regulatory economic arrangements in the UK and US. In order to show underlying performance, we calculate RoE measures excluding exceptional items of income or expenditure.

Group RoE is used to measure our performance in generating value for our shareholders by dividing regulated and non-regulated financial performance, after interest and tax, by our measure of equity investment in all our businesses, including the regulated businesses, NGV and Other activities and joint ventures. Group RoE includes our UK Gas Transmission business.

Regulated RoEs are measures of how the businesses are performing compared with the assumptions and allowances set by our regulators. US jurisdictional and UK entity regulated returns are calculated using the capital structure assumed within their respective regulatory arrangements and, in the case of the UK, assuming inflation of 3% RPI under RIIO-1 and 2% CPIH under RIIO-2. As these assumptions differ between the UK and the US, RoE measures are not directly comparable between the two geographies. In our performance measures, we compare achieved RoEs to the level assumed when setting base rate and revenue allowances in each jurisdiction.

Return on Equity

£m	2021/22	2020/21	Change
UK Electricity Transmission	7.7%	13.8%	-610bps
UK Electricity Distribution	13.6%	n/a	n/a
UK Gas Transmission	7.8%	9.6%	-180bps
New England	8.3%	7.5%	80bps
New York	8.8%	6.7%	210bps
Group Return on Equity¹	11.4%	10.6%	80bps

1. Group RoE methodology amended in 2021/22 to calculate accretion charge on inflation-linked debt at long-run inflation rates. This provides alignment to treatment of RAV indexation in the metric. Prior year comparatives have not been restated.

As a result of the new RIIO-2 price control, the allowed returns that UK Electricity Transmission and UK Gas Transmission can earn have decreased compared with the allowed returns under RIIO-1. In 2021/22, UK Electricity Transmission achieved operational returns of 7.7%, 140bps higher than base allowed return under RIIO-2, mainly from totex performance related to savings on capital delivery. UK Electricity Distribution achieved an operational return of 13.6% in 2021/22 under RIIO-1, or 400bps outperformance, mostly as a result of strong incentives performance, but also totex outperformance driven by efficient capital expenditure. UK Gas Transmission's return decreased due to lower returns allowed under the new RIIO-2 price control, but achieved operational returns in 2021/22 were 7.8%, 110bps higher than allowed, from totex outperformance, driven by cost efficiencies and incentives.

New England's achieved return of 8.3% was 85% of the allowed return of 9.8% in 2021/22 as a result of higher IT and workforce costs, but this was an improvement on the achieved return of 7.5% or 77% of the allowed return in 2020/21, driven by rate increases and a smaller adverse impact from COVID-19 compared with the prior year. New York's achieved return of 8.8% was 99% of the allowed return of 8.9% in 2021/22. This was an improvement compared with an achieved return of 6.7% in 2020/21, as a result of new rate agreements and a property tax rebate in the current year, and non-deferrable storm costs exceeding allowances plus non-recurring charges in the prior year. The quoted returns for New England and New York represent the weighted average return across OpCos within each jurisdiction. US returns were not affected by the COVID-19-related bad debt provisions recognised in 2020/21 which included an adjustment reflecting our expectation for future recovery of these bad debt costs.

Overall Group RoE, which incorporates NGV, Property, Corporate and Other plus financing and tax performance was 11.4%.

Tax transparency

As a responsible taxpayer, we have voluntarily included additional tax disclosures, which we believe are of significant interest to many of our stakeholders.

Tax strategy

National Grid is a responsible taxpayer. Our approach to tax is consistent with the Group's broader commitments to doing business responsibly and upholding the highest ethical standards. This includes managing our tax affairs, as we recognise that our tax contribution supports public services and the wider economy. We endeavour to manage our tax affairs so that we pay and collect the right amount of tax, at the right time, in accordance with the tax laws in all the territories in which we operate. We will claim valid tax reliefs and incentives where these are applicable to our business operations, but only where they are widely accepted through the relevant tax legislation such as those established by government to promote investment, employment and economic growth. We do not have operations in tax havens or low tax jurisdictions without commercial purpose.

We have a strong governance framework and our internal control and risk management framework helps us manage risks, including tax risk, appropriately. We take a conservative approach to tax risk. However, there is no prescriptive level or pre-defined limit to the amount of acceptable tax risk.

Our financial statements have been audited. The figures in the tax transparency disclosures in the Annual Report and Accounts have been taken from our financial systems, which are subject to our internal control framework.

We act with openness and honesty when engaging with relevant tax authorities and seek to work with tax authorities on a real-time basis. We engage proactively in developments of external tax policy and engage with relevant bodies where appropriate. Ultimate responsibility and oversight of our tax strategy and governance rests with the Finance Committee, with executive management delegated to our Chief Financial Officer who oversees and approves the tax strategy on an annual basis. For more detailed information, please refer to our published global tax strategy on our website.

Country-by-country reporting summary

We have disclosed in the table below data showing the scale of our activities in each of the countries we operate in. This allows our stakeholders to see the profits earned, taxes paid and the context of those payments.

2021/22	Revenue			Profit/(loss) before income tax ³ £m	Income tax accrued – current year ⁴ £m	Tangible assets/(liabilities) other than cash and cash equivalents ⁵ £m
	Unrelated party ¹ £m	Related party ² £m	Total £m			
United Kingdom	9,165	122	9,287	2,501	290	27,846
United States	10,646	45	10,691	1,395	6	29,686
Isle of Man	–	18	18	(48)	–	–
Luxembourg	–	–	–	–	–	–
Netherlands	–	33	33	–	–	–
Guernsey ⁶	–	4	4	–	–	–
Cross-border consolidation	–	–	–	–	–	–
Total	19,811	222	20,033	3,848	296	57,532

2020/21	Revenue			Profit/(loss) before income tax ³ £m	Income tax accrued – current year ⁴ £m	Tangible assets/(liabilities) other than cash and cash equivalents ⁵ £m
	Unrelated party ¹ £m	Related party ² £m	Total £m			
United Kingdom	5,482	106	5,588	1,718	213	20,796
United States	9,297	43	9,340	341	3	26,247
Isle of Man	–	15	15	23	–	–
Luxembourg	–	–	–	1,667	–	–
Netherlands	–	52	52	1	–	–
Guernsey	–	–	–	–	–	–
Cross-border consolidation	–	–	–	(1,667)	–	–
Total	14,779	216	14,995	2,083	216	47,043

- Unrelated party revenue comprises revenue from continuing operations of £18,449 million (2021: £13,665 million) and revenue from discontinued operations of £1,362 million (2021: £1,114 million).
- Related party revenue only includes cross-border transactions and comprises related party revenue from continuing operations of £189 million (2021: £164 million) and related party revenue from discontinued operations of £33 million (2021: £52 million).
- Profit/(loss) before income tax (PBT) from operations after exceptionals comprises continuing operations PBT of £3,441 million (2021: £1,664 million) and discontinued operations PBT of £407 million (2021: £419 million).
- Current year income tax accrued comprises current year income tax from continuing operations of £261 million (2021: £160 million) and current year income tax from discontinued operations of £35 million (2021: £56 million). See the tax charge to tax paid reconciliation below for further information.
- Tangible assets comprises property, plant and equipment and excludes tangible fixed assets for business classified as held for sale of £7,892 million (UK Gas Transmission £4,719 million, NECO £3,173 million) (2021: NECO £2,713 million).
- The Guernsey captive was acquired as part of the acquisition of the WPD Group during the year ended 31 March 2022.

Our Hong Kong entity is UK tax resident and is now dormant and our entities in Australia and Canada are dormant. Our entity in Ireland is in liquidation and our entities in Jersey were fully liquidated and dissolved during the period. Therefore, those jurisdictions have not been included in the table above.

Our Isle of Man and Guernsey companies are captive insurance companies which are treated as controlled foreign companies for UK tax purposes and as such UK corporation tax is paid on their profits by National Grid. In the Netherlands, we have a finance company which borrowed money externally and on-lent it to another Group company. Both loans have now been settled. It is taxed on its profits in the Netherlands at the corporate tax rate of 25%.

As part of our response to the Labour Party's proposal to nationalise nearly all of National Grid's UK assets we implemented measures, which included a Luxembourg holding company, in order to strengthen our ability to get a fair value for the assets in the event of a nationalisation.

Transfer pricing is not a significant issue for the Group since there are limited transactions between Group companies, but any transactions between related parties are made on an arm's-length basis and aligned to OECD principles.

Financial review continued

Group's total tax charge to tax paid

The total tax charge for the year disclosed in the financial statements in accordance with accounting standards and the equivalent total corporate income tax paid during the year will differ.

The principal differences between these two measures are as follows:

Reconciliation of Group's total tax charge to tax paid (continuing and discontinued)

£m	2021/22	2020/21
Total Group tax charge¹	1,494	442
Adjustment for Group non-cash deferred tax	(1,233)	(218)
Adjustments for Group current tax (charge)/credit in respect of prior years	35	(8)
Group current tax charge	296	216
Group tax instalment payments (repayable)/payable in the following year	(1)	(7)
Tax recoverable offset against current tax payments due	—	(55)
Tax instalment payments overpaid in the current year	18	—
Group tax payments/(refunds) in respect of prior years paid in the current year	15	(8)
Group tax payments relating to tax disclosed elsewhere in the financial statements	3	11
Group tax paid²	331	157
Profit before income tax³	3,848	2,083
	%	%
Effective cash tax rate ⁴	8.6	7.5
Effective tax rate ⁵	38.8	21.2

- Total Group tax charge from operations after exceptionals comprises tax charges of continuing operations of £1,258 million (2021: £360 million) and discontinued operations of £236 million (2021: £82 million).
- Total Group tax paid comprises tax paid for continuing operations of £298 million (2021: £91 million) and discontinued operations of £33 million (2021: £66 million).
- PBT from continuing operations after exceptionals comprises continuing operations PBT of £3,441 million (2021: £1,664 million) and discontinued operations PBT of £407 million (2021: £419 million).
- Effective cash tax rate for continuing operations after exceptionals is 8.8% (2021: 5.5%) and discontinued operations is 8.1% (2021: 15.8%).
- Effective tax rate for continuing operations after exceptionals is 36.6% (2021: 21.6%) and discontinued operations is 57.5% (2021: 19.6%).

Effective cash tax rate

The effective cash tax rate for the total Group is 8.6%. The difference between this and the accounting effective rate of 38.8% is due to the following factors.

An increase in future tax rates impacting the calculation of deferred taxes.

National Grid is a capital-intensive business, across both the UK and the US, and as such invests significant sums each year in its networks. In 2021/22 the Group's total capital expenditure was £6,446 million. To promote investment, tax legislation allows a deduction for qualifying capital expenditure at a faster rate than the associated depreciation in the statutory accounts. The impact of this is to defer cash tax payments into future years.

In the current period, the US federal taxable income was offset by brought-forward net operating losses which primarily arose from deductions for qualifying capital expenditure incurred by National Grid in earlier years. Hence no significant federal tax payments were made in the current period.

The Group continued to make significant payments into some of the UK defined benefit pension schemes. These payments have further reduced the overall cash tax paid in the UK.

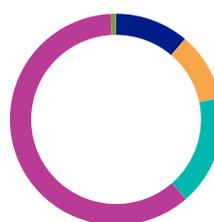
Group's total tax contribution

The total amount of taxes we pay and collect globally year-on-year is significantly more than just the tax which we pay on our global profits. To provide a full picture, we have disclosed the Group's global total tax contribution which includes contributions from both continuing and discontinued businesses.

Group's total tax contribution 2021/22 (taxes paid/collected)

Taxes borne

Taxes collected



Key:	£m
◆ People	221
◆ Product	206
◆ Profit	331
◆ Property	1,191
◆ Miscellaneous	15
Total	1,964



Key:	£m
◆ People	697
◆ Product	1,056
◆ Miscellaneous	2
Total	1,755

2021/22	Tax contribution					Number of employees ² as at 31 March 2022
	Income tax paid/(repaid) on cash basis ¹ £m	Property taxes £m	Other taxes borne £m	Taxes collected £m	Total tax contribution £m	
Tax jurisdiction						
United Kingdom	315	302	114	1,110	1,841	13,424
United States	16	889	328	645	1,878	17,332
Ireland	—	—	—	—	—	—
Isle of Man	—	—	—	—	—	—
Luxembourg	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—
Total	331	1,191	442	1,755	3,719	30,756

- See the tax charge to tax paid reconciliation above for further information.
- Number of employees is calculated as the total National Grid workforce across all parts of the business, including Non-executive Directors and Executive Directors. All are active, permanent employees as well as both full-time and part-time employees.

2020/21	Tax contribution					Number of employees ² as at 31 March 2021
	Income tax paid/(repaid) on cash basis ¹ £m	Property taxes £m	Other taxes borne £m	Taxes collected £m	Total tax contribution £m	
Tax jurisdiction						
United Kingdom	158	225	58	672	1,113	6,657
United States	(1)	816	309	602	1,726	17,026
Ireland	—	—	—	—	—	—
Isle of Man	—	—	—	—	—	—
Luxembourg	—	—	—	—	—	—
Netherlands	—	—	—	—	—	—
Total	157	1,041	367	1,274	2,839	23,683

- See the tax charge to tax paid reconciliation above for further information.
- Number of employees is calculated as the total National Grid workforce across all parts of the business, including Non-executive Directors and Executive Directors. All are active, permanent employees as well as both full-time and part-time employees.

For 2021/22, our total tax contribution globally was £3,719 million (2020/21: £2,839 million), taxes borne were £1,964 million (2020/21: £1,565 million) and taxes collected were £1,755 million (2020/21: £1,274 million). Our taxes borne have increased in the year primarily due to higher income taxes paid. Taxes collected have increased as a result of higher indirect taxes.

Approximately two thirds of the tax borne by the Group continues to be in relation to property taxes, of which £889 million are paid in the US across over 1,100 cities and towns in Massachusetts, New Hampshire, New York, Rhode Island and Vermont. These taxes are the municipalities' principal source of revenue to fund school districts, police and fire departments, road construction and other local services.

In the UK, we participate in the 100 Group's Total Tax Contribution Survey. The survey ranks the UK's biggest listed companies in terms of their contribution to the total UK government's tax receipts. The most recent results of the survey for 2020/21 ranks National Grid as the 19th highest contributor of UK taxes (2019/20: 19th), the 15th highest in respect of taxes borne (2019/20: 11th) and the 3rd highest in respect of capital expenditure (£1,594 million; 2019/20: £1,663 million) on fixed assets (2019/20: 6th). Our ranking in the survey is proportionate to the size of our business and capitalisation relative to the other contributors to the survey.

However, National Grid's contribution to the UK and US economies is broader than just the taxes it pays over to and collects on behalf of the tax authorities.

Both in the UK and the US we employ thousands of individuals directly. We also support jobs in the construction industry through our capital expenditure, which in 2021/22 was £6,446 million, as well as supporting a significant number of jobs in our supply chain.

Furthermore, as a utility we provide a core essential service which allows the infrastructure of the country/states we operate in to run smoothly. This enables individuals and businesses to flourish and contribute to the economy and society.

Development of future tax policy

We believe that the continued development of a coherent and transparent tax policy across the Group is critical to help drive growth in the economy.

We continue to engage on consultations with policymakers where the subject matter impacts taxes borne or collected by our business, with the aim of openly contributing to the debate and development of tax legislation for the benefit of all our stakeholders.

To ensure that the needs of our stakeholders are considered in the development of tax policy we are a member of a number of industry groups which participate in the development of future tax policy, such as the Electricity Tax Forum and CBI Employment Taxes Working Group, together with the 100 Group in the UK, which represents the views of Finance Directors of FTSE 100 companies and several other large UK companies. We undertake similar activities in the US, where the Group is an active member in the Edison Electric Institute, the American Gas Association, the Global Business Alliance, the American Clean Power Association, the Energy Storage Association and the Solar Energy Industries Association.

Feedback from these groups, such as the results of the 100 Group Total Tax Contribution Survey, and consideration of third party reporting frameworks like the GRI (Global Reporting Initiative) helps to ensure that we consider the needs of our stakeholders and are engaged at the earliest opportunity on tax issues which affect our business.

Pensions

In 2021/22, defined benefits pensions and other post-retirement benefits operating costs increased to £321 million (2020/21: £302 million) with £66 million related to an increase from the acquisition of WPD in 2021/22.

During the year, our pensions and other post-retirement benefit plans improved from a net surplus position of £715 million at 31 March 2021 to a net surplus of £3,075 million at 31 March 2022. This was principally the result of actuarial gains on plan assets of £0.8 billion (as a result of higher investment returns) and actuarial gains on plan liabilities of £1.6 billion (reflecting higher discount rates from corporate bond yields net of higher expectations for long-term RPI inflation). The acquisition of WPD in June 2021 increased the Group's net pension surplus by £566 million, but this was offset by the reclassification of National Grid Gas plc's section of the NGUKPS (£664 million in surplus) at 31 March 2022 to held for sale. Employer contributions during the year were £300 million (2020/21: £274 million), including £84 million (2020/21: £88 million) of deficit contributions. As at 31 March 2022, the total UK and US assets and liabilities and the overall net IAS 19 (revised) accounting surplus (2020/21: surplus) is shown below. Further information can be found in note 25 to the financial statements.

Net pension and other post-retirement obligations

	UK	US	Total
Plan assets (£m)	16,865	10,148	27,013
Plan liabilities (£m)	(14,275)	(9,663)	(23,938)
Net surplus (£m)	2,590	485	3,075

As at 31 March 2022, we recognised in the statement of financial position pension assets of £3,885 million (UK pensions £2,668 million; US pensions £732 million; and US other £485 million) and pensions liabilities of £810 million (UK pensions £78 million; US pensions £248 million; and US other £484 million).

Dividend

The Board has recommended an increase in the final dividend to 33.76p per ordinary share (\$2.0929 per American Depository Share), which will be paid on 17 August 2022 to shareholders on the register of members as at 6 June 2022. If approved, this will bring the full-year dividend to 50.97p per ordinary share, an increase of 3.7% over the 49.16p per ordinary share in respect of the financial year ended 31 March 2021. This is in line with the increase in average UK CPIH inflation for the year ended 31 March 2022 as set out in our dividend policy. Our aim is to grow the annual dividend in line with CPIH, thus maintaining the dividend per share in real terms. The Board will review this policy regularly, taking into account a range of factors including expected business performance and regulatory developments.

At 31 March 2022, National Grid plc had £12 billion of distributable reserves, which is sufficient to cover more than five years of forecast Group dividends. If approved, the final dividend will absorb approximately £1.2 billion of shareholders' funds. This year's dividend is covered approximately 1.3x by underlying earnings.

The Directors consider the Group's capital structure and dividend policy at least twice a year when proposing an interim and final dividend and aim to maintain distributable reserves that provide adequate cover for dividend payments.

New accounting standards

We did not adopt any new accounting standards in 2021/22. Amendments to certain existing accounting standards were adopted during the year, but these had no material impact on the Group's results or financial statement disclosures.

Post balance sheet events

On 6 April 2022, the UK government announced that ESO will become part of an independent system operator public body, following the Future System Operator consultation. On 11 May 2022, Ofgem approved the Group's request to return £200 million of interconnector revenues subject to the cap and floor regime to consumers ahead of schedule. For further details, see note 38 to the financial statements.

Our business units

UK Electricity Transmission

We performed well in 2021/22 as we maintained our focus on safe, customer-led, reliable, innovative and efficient operations to drive forward the net zero agenda.

Highlights

ET has performed strongly over 2021/22, increasing annual investment by 20% as part of our £8 billion RIIO-T2 promise. We have maintained our focus on safety, customers, reliability and innovation to continue driving forward the net zero agenda.

We submitted a technical appeal to the CMA regarding the RIIO-T2 cost of equity and outperformance wedge. The CMA found in our favour on the outperformance wedge, which has since been dropped from the RIIO-T2 regulatory framework.

We have installed 53 T-pylons as part of the route connecting Hinkley Point C nuclear power station to over 6 million homes and businesses. We have completed almost 6.2 miles (10 kilometres) of underground tunnelling as part of our London Power Tunnels (LPT2) project and met 100% of our milestones.

Enable the energy transition for all

We outperformed this year's proportion of our SF₆ Science Based Targets to reduce emissions by 50% by 2030 through a programme of targeted repair, refurbishment and asset replacement. We have been collaborating with suppliers, universities and innovators across the world to trial SF₆-free assets. We have switched 10% of our operational fleet to electric as part of the process of going fully electric by 2030.

We connected over 5 GW of generation to the network as part of our commitment to connect over 15 GW of customer capacity over RIIO-T2 to provide the UK with clean power and flexible storage.

Despite a quadrupling of new connection requests, our teams achieved a Quality of Connection (customer satisfaction) score of 7.8 in 2021/22.

Deliver for our customers efficiently

Over the year, we have replaced over 900 assets to maintain a safe and reliable network. The network stood up well against the recent storms and although we experienced multiple circuit trips, the majority were returned via the automatic protection Delayed Auto Reclose (DAR) system. No loss of demand occurred through any of the storms, with only 27 MW of Energy Not Supplied against our incentive target of 103 MW.

Western Link delivers green energy to where it is needed and enables a more efficient electricity system. Due to delays with the complex construction phase, the joint venture agreed to a £15 million payment into Ofgem's redress fund (NGET's share was £10 million) and to return £143 million to consumers in payments through mechanisms outlined in the price control. This has ensured ET did not benefit from the delay.

We have delivered £24 million efficiencies with our Evolution programme.

Grow our organisational capability

The introduction of SmartWires provides greater control and flexibility of the power flow across our transmission boundaries and the installation of Connectnow is the first Digital Transmission Owner portal in the UK, allowing our customers to understand where to connect and to manage their project portfolios.

Our Deeside Innovation Centre is now operational and enabling the trialling of innovative energy solutions. This will accelerate the deployment of new technologies to facilitate net zero and reduce the cost of maintaining and managing the network.

Empower colleagues for great performance

It is over 12 months since any of our 2,500 field and office-based employees suffered an LTI. However, we are disappointed that the frequency of LTIs amongst our contractors has increased above our 0.1 target following 18 contractor LTIs in the year. We are actively working with our contractors to eliminate this gap by ensuring requirements are clear and consistent across all parties.

We are digitalising our operations in order to better enable our people; for example, our Agile Field Force programme has freed up 20,000 hours of engineer time every year. This enables engineers to focus on using their core skills to maintain and install new assets.



The first of 53 T-pylons, erected in September 2021 as part of the Hinkley Connection project in the UK

Looking ahead

In order to migrate to a cleaner energy system, we need to connect increasing amounts of renewable energy from the North Sea and the UK's East Coast. The complexity and scale of the infrastructure investments associated with our East Coast programme will require us to make a step change in how we work with developers, suppliers, environmental groups and local communities so we can find the best local and environmental solutions possible.

We will reform the customer connections process to be more efficient, connecting our customers more quickly and making full use of the data and products available to drive transparency. We will release capacity for our teams through reduced admin time, using standardisation and by enabling customers to self-serve to ensure all our work adds value.

UK Electricity Distribution

We have performed well in 2021/22 as we maintained excellent customer service and delivery of our innovative projects.

Highlights

WPD has delivered excellent service for our 8 million customers and remains on track to outperform the majority of our RIIO-ED1 targets. We have continued to outperform our targets for customer minutes lost and customer interruptions by 30% and 27% respectively from the underlying performance benchmark, accident rates have reduced to 0.62 accidents per 100 staff, and our Scope 1 and 2 emissions (excluding losses) have continued to get smaller with a 52% reduction since 2014/15. We have also supported almost 26,000 fuel poor customers, leading to estimated annual savings of £14.6 million for these customers.

Our hard work in conducting our business with the highest standards is reflected in WPD winning the Disruptor Award at the Utility Week Awards for our Flexible Power initiative.

Enable the energy transition for all

We have several innovative delivery projects underway to drive a fair energy transition for all. In RIIO-ED2, we will build on these foundations to ensure customers are able to connect low-carbon technologies (LCTs) quickly and easily. We have centralised our process for domestic LCTs, offering a next day approval for most EVs and heat pumps.

Our RIIO-ED2 Business Plan includes core commitments which are targets to ensuring that vulnerable customers do not miss the benefits associated with the shift to a smart energy system. This includes offering 600,000 Priority Service Register (PSR) customers a bespoke smart energy action plan, supporting local communities via a Community Matters social initiative and installing solar PV on schools in areas of high economic deprivation.

In May 2022, Ofgem announced that WPD had agreed to pay £3.7 million for each of the four licences we operate, totalling £14.9 million. This followed the outcome of an investigation into the level of information, advice and services provided to customers on the PSR. We have made changes to our policies and processes to ensure we are fully complying with the expectations Ofgem has clarified in our licence.

Deliver for our customers efficiently

Even though we had to change some practices due to the COVID-19 pandemic, we have continued to provide the highest level of service to our 8 million customers. Our hard work is reflected in our excellent performance against the Broad Measure of Customer Satisfaction (BMCS) results, scoring 9.03 out of 10 overall.

Grow our organisational capability

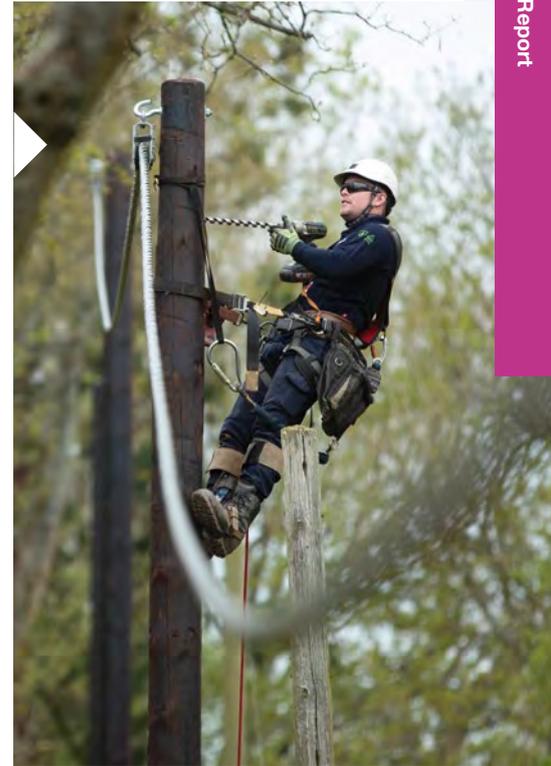
We have established plans and work programmes to build a 'green recovery' from the effects of the COVID-19 pandemic. The nationwide call for evidence to support network investment projects saw WPD receive feedback from more than 200 stakeholders, and this helped us target the network investment to the areas that see the most benefit. All 73 projects have been given the go-ahead, each meeting the Ofgem-backed initiative's criteria of enabling net zero and providing a wider social benefit. The successful projects, which will be completed in the next two years, range from installing new substations to reinforcing existing parts of the network. In total, 55% of the projects relate to customers wanting to connect public EV charging hubs in some form and we estimate that customers could connect up to 50% more ultra-rapid EV chargers because of these investments, many at motorway service areas.

Empower colleagues for great performance

During the year, the WPD Chief Executive met up with small groups of colleagues to hear their views on WPD. The sessions were attended by colleagues across various roles and encouraged suggestions to be brought forward to drive an overall performance improvement within the organisation. This direct feedback from colleagues will be crucial in producing ideas, innovations and solutions to the many challenges and opportunities that we will have in the business going forward.

Looking ahead

We are determined to achieve a sustainable energy future by delivering a dynamic, innovative and high-functioning energy grid that stands ready to serve many generations to come. Change is already well underway, with unprecedented levels of flexibility and efficiency, and new distribution system operator capabilities already in place. In RIIO-ED2, we will accelerate the rate of this change, placing customers at the heart of a swift and effective transition to a smart, decarbonised energy future.



Works to improve the overhead network in Droitwich, North Worcestershire, UK

We will utilise innovative and digitalised solutions to enhance our operations. We will instil a culture across our business that maximises every opportunity to innovate and work smarter for our customers. We have embedded £723 million of efficiency savings into our RIIO-ED2 Business Plan thanks to our proven track record of innovation development and roll-out. Without this, required investment in RIIO-ED2 would have been £7.4 billion, which would have resulted in increases to customer bills. Instead, by working smarter and embracing a culture of continual innovation, we will deliver our RIIO-ED2 commitments with a budget of £6.7 billion whilst maintaining affordability for our customers.

In addition, we will deliver an extra £95 million of efficiency savings over RIIO-ED2. We anticipate a 108% increase in the level of load-related schemes, with only an 8% increase in engineering management and support costs. By adopting a 'flexibility first' approach to all load-related investment decisions, we have committed that by 2028 we will avoid over £94 million of network reinforcement costs by operating the existing primary and secondary networks more flexibly.

UK Gas Transmission*

We have commenced RIIO-T2 strongly and made good progress preparing for the sale of a majority stake in the Gas Transmission business.

Highlights

The RIIO-T2 price control will provide a high degree of cash flow certainty for the GT business for the five-year period to March 2026. Detailed plans are in place to deliver against our targets, through continued strong incentive performance, as well as preparing for the energy transition. GT made a strong start to RIIO-T2, with strong financial results, customer metrics, and continued high levels of safety and operational performance. We continued to support our colleagues through the COVID-19 pandemic, ensuring alignment to government guidelines at all times.

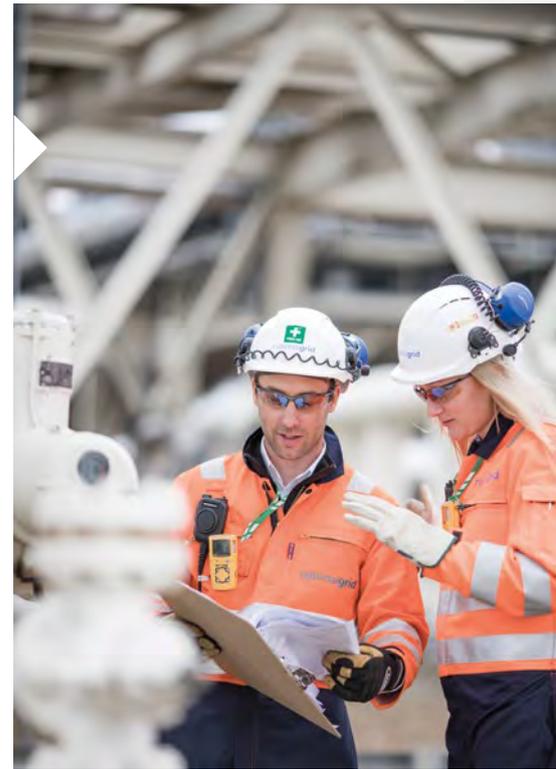
GT continues to work with industry peers to support the transition to a hydrogen network and has now commenced construction of FutureGrid – a £9 million full-scale hydrogen test facility, funded through the Network Innovation Competition.

* Discontinued operation.

Looking ahead

Following the announcement on 18 March 2021 of the intention to sell a majority stake in the GT business, preparations have been ongoing throughout the year for the design of a standalone business. The sale of a 60% equity interest in the GT business to a consortium of Macquarie Asset Management and British Columbia Investment Management Corporation was announced on 27 March 2022. The results of GT are presented as discontinued operations in 2021/22.

We are committed to supporting our people through the remaining stages of the sales process, providing access to all necessary information as well as increased engagement across the business. We are working closely with BEIS, Ofgem and all other industry stakeholders to provide assurance of our unrelenting focus on delivery of RIIO-T2 performance and ensuring security of supply throughout the transitional period and beyond.



Bacton Gas Terminal, Norfolk, UK

UK Electricity System Operator

We are working with stakeholders to support progress towards net zero while maintaining energy security and minimising costs for consumers.

Highlights

As Great Britain's electricity system operator, we are at the heart of the energy transition, operating one of the safest, most reliable and fastest decarbonising networks in the world.

The ESO launched its Future Energy Scenarios in July 2021, which outlines four different, credible pathways for the future of energy between now and 2050.

Looking ahead

In April 2022, BEIS and Ofgem announced their decision to establish an expert, impartial Future System Operator to drive progress towards net zero while maintaining energy security and minimising costs for consumers, which will incorporate and build upon the existing capabilities of the ESO. We will continue to work closely with government, the regulator and industry as we enter the transition period, which will require communication and engagement with our impacted colleagues, who are an essential part of this new organisation, and a complex separation activity, particularly of IT systems.



ESO Control Centre, UK

New England

In 2021/22, we performed well throughout the region while still dealing with the effects of the COVID-19 pandemic, severe weather events and significant organisational changes. There was a continued focus on safety, storm response and the clean energy transition.

Highlights

We used lessons learnt throughout the pandemic to help navigate the ever-changing COVID-19 protocols in the region. Colleagues continued to work safely, whether in the field or utilising our hybrid or remote work model. In addition, we found ways to give back and support the communities we serve by assisting with COVID-19 vaccinations and donating hygienic safety products to non-profit organisations.

New England faced several challenging storms this fiscal year. Our field crews and emergency response organisation conducted thorough emergency planning and collaborations across divisions, which resulted in our crews safely and efficiently restoring power to our customers. Our restoration efforts were recognised once again as we were awarded EEI Emergency Response Awards for both Tropical Storm Henri and the October Nor'easter.

Safety is a pillar of our daily operations, and we continue to focus on the wellbeing and safety of our workforce and customers alike. We have improved our safety score for near misses and good catches and, as at 31 March 2022, our LTIFR was 0.18.

Enable the energy transition for all

In 2021, we worked with the City of Melrose to deploy 15 pole-mounted EV chargers to expand EV adoption, accelerate usage and lower installation costs. This project is the first deployment of elevated, pole-mounted EV chargers by an investor-owned utility in the US.

We have focused on advancing clean transportation by working with cities such as Beverly on an electric school bus project, incorporating a fully electric-powered backhoe into our fleet, and proposing our largest ever EV programme with Massachusetts regulators.

The Company also continued to reduce methane emissions from our gas network. We replaced over 170 miles (274 kilometres) of leak-prone gas pipes across New England, improving pipeline safety and reducing greenhouse gas emissions.

In March 2022, as part of the DPU 20-80 proceeding, we and our fellow Massachusetts gas utilities filed a plan with the Department of Public Utilities that outlines exactly how to get to a decarbonised heating future. We believe our approach will most effectively balance

affordability and equity, safety, reliability, and resilience. Our plan strives to retain customer choice around heating solutions, reduce overall energy costs, increase investment and adoption of energy-efficiency measures, and make provisions for utilising non-pipe alternatives where safe and cost effective.

Deliver for our customers efficiently

We aim to provide a fairer, cleaner and more affordable gas service to our customers. The Department of Public Utilities approved our five-year rate plan on 1 October 2021. The plan supports capital investment and provides resources to meet our work plans over the next five years.

We also received approval of our geothermal demonstration programme, which secured funding for four district geothermal system installations for existing Massachusetts gas customers.

Grow our organisational capability

In July 2021, the Company's Massachusetts Phase 3 Electric Vehicle proposal was filed with the DPU to build upon our first two Electric Vehicle Market Development Programs by providing offerings to meet the diverse transportation needs of all the Company's customers, building the infrastructure required to support state-wide EV adoption, and helping to enable the Commonwealth's broader transition to a clean transportation future. The Company is proposing to run the Phase III Program for a period of four years, with a total budget of approximately \$278 million.

In October 2021, we appointed a New England President to our Group Executive Committee. The Committee's wide range of experience will help lead the clean energy transition for all of our communities.

The sale of our Rhode Island electricity and gas business will serve as a vital step in furthering our strategic vision. To prepare for the sale, we established a transition team of over 250 people across 19 functional areas to set up both the future Massachusetts and Rhode Island businesses for success. The sale has received all required regulatory approvals, including from the Rhode Island Division of Public Utilities and Carriers. That decision, however, has been appealed to the RI Superior Court by the RI Attorney General. We are confident that the Division's approval of the sale will be upheld and look forward to closing the transaction as expeditiously as possible.



Boston Common Park, Massachusetts, US

Empower colleagues for great performance

Our colleagues worked to create an equitable impact in our communities. The New England Gas Diversity, Equality and Inclusion Council is a grassroots group of both union and management field employees. The group recently launched two initiatives to recruit and retain employees from diverse backgrounds, including hosting a pipeline career development day at local high schools. By investing in our communities through education and upskilling talent to adapt to the changing energy system, we are tackling our DEI commitments.

Looking ahead

Customers are always at the forefront of everything we do, and we must consistently deliver a safe and reliable service. The various organisational changes in our region will allow us to provide a better service to our customers. This is the foundation for us to continue to be greener, stronger and more reliable.

New York

In 2021/22, we achieved overall strong results throughout the region. Throughout the various organisational model changes, severe weather events, rate cases and public opposition in our region, we prioritised safety, bold clean energy and climate action plans, and our commitment to the communities we serve.

Highlights

New York encountered several challenging storms, but we remained focused on emergency planning and restoration efforts. This year we received an EEI Emergency Response Award and the 2021 ReliabilityOne® Award for Outstanding Suburban and Rural Service Area Utility in the Northeast as we hit our regulated reliability goals for the 14th consecutive year.

Safety remained one of our top priorities in the region. We continued to use the tools and processes developed at the onset of the pandemic to safely navigate through the various spikes in COVID-19. We have improved our safety score for near misses and good catches, and as at 31 March 2022, our LTIFR was 0.13.

Enable the energy transition for all

In New York, we are doing our part to fulfil the clean energy transition. In 2021, we worked with the town of Hempstead, New York, and introduced one of the country's first and largest clean hydrogen demonstration projects. The HyGrid Project located in Point Lookout on Long Island will blend green hydrogen into the existing distribution system to heat approximately 800 homes and fuel a fleet of municipal vehicles.

We are also working with the New York Power Authority to build the Smart Path Connect project, a \$1 billion transmission upgrade that will enable the integration of 1 GW of renewable energy to the grid. In addition, we have proposed nearly \$700 million in short-term transmission upgrades in upstate New York that would unlock roughly 2.6 GW of clean energy resources.

The solid rate case agreements that have been completed for KEDNY, KEDLI and NMPC are essential steps in energy transition. These rate agreements will provide us with the funding needed to create the energy infrastructure and service our New York customers demand and deserve.

Deliver for our customers efficiently

In New York, we are serving our customers and communities through our new initiative, Project C. Project C focuses on four key priorities: clean energy and sustainability; workforce development; neighbourhood investment and community engagement; and environmental justice and social equity. By providing grants to non-profits, recreational programmes, and local economic development partners, we will support the revitalisation of communities and small businesses across our service area.

With the cost of heating increasing this past winter, we collaborated with AARP New York and the Public Utility Law Project (PULP) to make income-eligible customers aware of our Energy Affordability Programme (EAP). Our Consumer Advocates helped seniors with enrolment in EAP and provided information on other no-cost, energy-saving programmes to improve the comfort of their homes.

Grow our organisational capability

We play a key role in combatting climate change and providing climate solutions. As part of the lead-up to COP26, we joined forces with government leaders from around the world at Climate Week NYC, where we were the headline partner, to focus on fulfilling and increasing commitments to climate action. Several National Grid leaders contributed to the global conversation on climate change and how to take action.

Another significant highlight in our region was bringing 900 of our Long Island gas field employees through a gas business enablement go-live. We successfully provided colleagues with tools and applications to meet the needs of our customers, communities and regulators.

Empower colleagues for great performance

After nearly three years of planning, our new Brooklyn, New York office at 2 Hanson Place opened in 2021. This highly anticipated space was built on the Smart workspace strategy, and we ensured it incorporated principles of sustainability and human wellbeing in its design and operations. The building was also designed to WELL and Leadership in Energy and Environmental Design building standards, which resulted in an Award of Excellence by the New England chapter of CoreNet Global.



View of Albany, New York, US

Looking ahead

The New York team had a good year, and we are excited about what is ahead. We will continue to make strategic investments in our network, invest in our communities through Project C, and create a stronger, more diverse workforce for the future.

National Grid Ventures and Other activities

Highlights

This section relates to NGV, non-regulated businesses and other commercial operations not included within the business segments.

NGV, which operates separately from our core regulated units, is focused on competitive markets across the UK and US. Its portfolio includes electricity interconnectors, LNG storage and regasification, large-scale renewable generation, conventional generation and competitive transmission. Other activities primarily relate to NGP, the corporate investment and innovation arm of National Grid, as well as UK property, insurance and corporate activities.

Despite ongoing challenges presented by the COVID-19 pandemic in the US and UK, NGV businesses performed well in 2021/22, including commissioning the North Sea Link interconnector between the UK and Norway and the Prairie Wolf Solar Project in Illinois. NGV also successfully secured a seabed lease in the New York Bight offshore auction together with RWE Renewables. In March 2022, National Grid Property completed the sale of National Grid's 50% interest in the St William Homes LLP joint venture to The Berkeley Group plc.

The safety and wellbeing of colleagues continues to be a key priority across NGV. As at 31 March 2022, NGV's LTIFR was 0.14.

Enable the energy transition for all

NGV plays an important role for the National Grid Group in developing, constructing, operating and investing in infrastructure to support the energy transition and security of supply in both the UK and the US.

In the UK, NGV is the leading developer and operator of interconnectors, which are high-voltage subsea cables that enable the UK to share excess power, such as wind, solar and hydro generation, with neighbouring markets.

In October 2021, NGV commissioned North Sea Link, which at 447 miles (720 kilometres) is the world's longest subsea interconnector. NGV also operates links to Belgium, France and the Netherlands. By 2030, we estimate that 90% of the energy imported by NGV interconnectors will be from zero-carbon energy sources.

NGV is part of the Northern Endurance Partnership, a consortium developing CO₂ transport and storage technology for the East Coast Cluster (ECC) in the North of England. The ECC, which aims to transport carbon emissions from the Humber and Teesside for safe storage deep under the Southern North Sea, is one of two industrial clusters selected by the UK government to be delivered this decade.

Ofgem has agreed to National Grid's offer to make an early payment of £200 million of interconnector revenues to consumers, via the regulator, as part of the interconnector regulatory regime. The payments will be made over the next two years, to help reduce consumer energy bills.

In the US, NGV and RWE Renewables successfully secured a seabed lease as part of the US Bureau of Ocean Energy Management's New York Bight auction. Community Offshore Wind, a joint venture between the two companies, will develop the awarded seabed, which has the potential to host 3 GW of capacity. NGV's National Grid Renewables business started commercial operations of its 200 MW Prairie Wolf Solar Project in Illinois and began construction on 674 MW of solar and energy storage projects in Texas and Ohio.

NGV is part owner of New York Transco, which started construction of the largest transmission project in New York in 40 years to enable 1 GW of renewable energy onto the system.

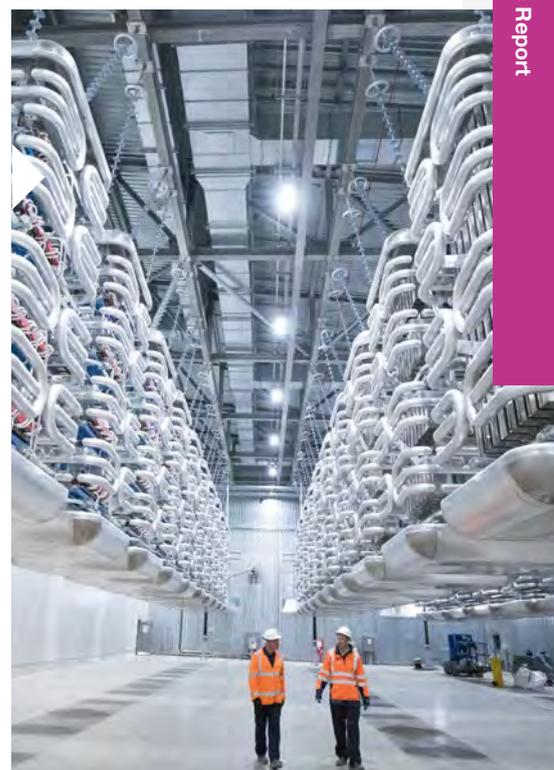
NGP had a portfolio which comprised 38 companies and four fund investments at a fair value of \$491 million, as at 31 March 2022.

Deliver for our customers efficiently

In the UK, NGV's interconnector portfolio comprises 6.4 GW of operational capacity. Together with France's Réseau de Transport d'Électricité (RTE), NGV operates the IFA and IFA2 interconnectors connecting France and Great Britain. IFA, a 2 GW HVDC cable, suffered a major fire in September 2021. Half of the link, representing 1 GW, was safely returned to service the following month. The remaining 1 GW is expected to return to service in December 2022. IFA2 is a 1 GW cable stretching 149 miles (240 kilometres). BritNed is an independent joint venture between National Grid and TenneT, the Dutch transmission system operator. It owns and operates a 1 GW HVDC link between Great Britain and the Netherlands. Nemo Link is an independent joint venture between National Grid and Elia, the Belgian transmission system operator. It owns and operates a 1 GW HVDC link between Great Britain and Belgium.

NGV's Grain LNG is one of three LNG importation facilities in the UK. It operates under long-term take or pay contracts with customers and provides importation services of ship berthing, temporary storage, ship reloading and regasification into the National Transmission System (NTS). Grain LNG's road tanker loading facility also offers the UK's transport and off-grid industrial sector a more environmentally friendly alternative to diesel or heavy fuel oil. The facility allows tanker operators to load and transport LNG in bulk across the UK via road or rail.

NGV is a part owner of Millennium Pipeline, which provides consumers in the northeastern US with additional natural gas infrastructure to meet growing consumer demand for cleaner and more reliable energy. It is strategically positioned to serve utility and power plant loads across New York State and into New England.



Inside the UK valve hall at NGV's 1GW IFA2 interconnector

Grow our organisational capability

NGV established a portfolio management function to optimise the existing portfolio and identify future opportunities for growth.

Empower colleagues for great performance

NGV prides itself on a diverse and inclusive culture, which includes 46% diversity across new hires in 2021/22.

Looking ahead

In the UK, NGV will grow its interconnector portfolio by 1.4 GW in the next two years, with construction underway on the Viking Link interconnector. Developed together with Danish transmission system operator Energinet, Viking Link will be a 475 mile (765 kilometre) long subsea link connecting Great Britain and Denmark. NGV will have 7.8 GW of operational interconnector capacity when Viking Link becomes operational in 2023/24. Work is also underway to expand Grain LNG's storage capacity from 1.0 million m³ to 1.2 million m³ by 2025, further supporting the UK's gas security of supply.

Our stakeholders

Stakeholder engagement

Effective engagement with our stakeholders is key to successful achievement of the Group's strategy in the long term.

Section 172(1) statement

During the year, the Directors acted in the way they considered, in good faith, most likely to promote the long-term success of the Company for the benefit of its members as a whole, with due regard to the matters set out in section 172 of the Companies Act 2006. Examples of how the Directors have had regard to these matters during the year are set out on pages 56 – 59, which together form our section 172(1) statement.

The Board recognises its responsibilities to each of National Grid's stakeholder groups and to wider society. The Directors endeavour to ascertain the interests and views of our stakeholders and consider these when taking decisions.

The Board oversees a governance framework that enables decisions to be taken at the right time in the most appropriate forum. We recognise that it is not always possible to achieve each stakeholder's preferred outcome and consideration of each stakeholder group depends on the matter at hand. The Board strives to balance the different priorities and interests of our stakeholders in a way compatible with the long-term, sustainable success of the business and which maintains a standard of business conduct aligned to our values and purpose.

Our approach to stakeholder engagement

Most engagement with key stakeholders is carried out by management teams and takes place at business level and the Directors engage directly with stakeholders where possible. Reporting mechanisms are in place to collate feedback and developments from such engagement and enable a flow of this information to the Board and Board Committees, to inform decision making.

An overview of business-level engagement and outcomes is reported to the Board or appropriate Board Committee on a regular basis. The cadence and content of such reports to the Board are considered bi-annually as part of the forward business review by the Chair, Chief Executive and Group General Counsel & Company Secretary, to ensure sufficient consideration is given to pertinent matters and affected stakeholders. One of the Board's objectives is to routinely bring external viewpoints into Board discussions, which have included external speakers, training sessions and organisational deep dives led by colleagues from across the business, during the year.

The Board has identified the stakeholder groups it considers key and some examples of how we have engaged with these groups, together with the outcomes and impacts of engagement on our business and Board decisions, are set out on pages 57 – 58. These examples are not exhaustive and we have integrated reporting on how stakeholder views are considered throughout this report. The following should therefore be read in conjunction with this statement:

- Pages 92 – 94 set out key matters considered by the Board during the year.
- Pages 4 – 7 describe our business model including how our business interacts with our key stakeholders, and why they are important to us.
- Pages 60 – 69 set out our commitment to being a responsible business and the action we have taken during the year.
- Pages 15 – 19 explain developments in our business environment and our responses.
- Pages 101 – 103 explain the activities of the Audit & Risk Committee in response to allegations of fraud and bribery offences by former National Grid employees in our US business.



Engagement with our stakeholders



Stakeholder group – Our investors

How we engaged

In November 2021 we held our 'Doing Right Now' Investor Day, attended by the Chief Executive and senior leaders, where we announced our new organisational structure and associated cost-efficiency target, and further clarified our five-year plan announced in May 2021.

The Chief Executive attended the UK Global Investment Summit in October 2021, which focused on opportunities for investors and businesses as part of the UK's Green Economic Recovery.

Our Remuneration Committee engaged with shareholders on key remuneration topics, particularly development of the new remuneration policy, which will be put to a shareholder vote at our 2022 AGM.

Outcomes and actions

An independent investor-perception study following the Investor Day found the Company's critical role at the heart of the energy transition was well understood and there was a high degree of trust that the Company will fulfil this role successfully. The need to maintain the momentum to integrate our ESG reporting and talk more about future opportunities for the network, particularly in the US, was highlighted. Responses have informed our ongoing investor relations communication strategy and we will address key themes at investor events throughout 2022.

At the 2021 AGM, the Board proposed, and shareholders approved, an amendment to Company's Articles of Association to enable the holding of hybrid AGMs. This flexibility will enable more of our shareholders to participate in future AGMs, using online facilities. We intend to hold a hybrid AGM for the first time in 2022.

Our unique investment proposition is set out on pages 8 – 9.

Stakeholder group – Our colleagues



How we engaged

As COVID-19 restrictions in the UK eased, the Board was able to safely participate in site visits in early 2022. Following extensive oversight by the Board of the investigation into a catastrophic fire at the IFA interconnector site in Sellindge during 2021, three Non-executive Directors visited the site in March 2022. They met with a range of workers on site and heard views on safety practices.

The annual Grid:voice engagement survey provides insights into what is important to our colleagues and how they are feeling about the Company's strategy and leadership. The results of this survey were provided to the Board and plans put in place to progress any areas of improvement identified. Further information about the Board's employee engagement programme is set out on pages 96 – 97.

Outcomes and actions

Feedback from our annual Grid:voice survey has led to development of our home-working IT capabilities and of our flexible working policy, following a strong indication of a preference among the workforce to continue with hybrid ways of working.

Specific indicators are used as a measure of culture in relation to employee perception of safety and leadership. You can learn about how the Board oversees corporate culture and the progress we are making on these indices on page 95.

Employee engagement and workforce diversity are two of our non-financial KPIs. Further information is on page 27.

Read about our commitments to our colleagues and how we are living our corporate values on pages 65 – 66.

Stakeholder group – Our customers



How we engaged

Bi-annual updates are provided to the Board on UK, US and NGV customers, including progress on deliverables linked to our strategic priorities.

As recommended by the NY Monitor, the Company produced a supplementary report to its Natural Gas Long-Term Capacity Report for Brooklyn, Queens, Staten Island and Long Island (published in 2020), which analysed gas supply constraints in downstate NY and identified options for meeting future demand. The supplementary report was based on the results of an extensive outreach programme to measure customer and other stakeholder support for the various supply options for future demand. Engagement occurred through multiple channels, including social media and web platforms. Regular reports and analysis were provided to the Board to inform strategy development in this area.

WPD has an established customer panel that meets quarterly, with members who represent a wide range of customers and other key stakeholder groups. This enduring, expert engagement plays an important role in challenging our approaches, helping WPD achieve its purpose of delivering good value and high-quality services for its customers.

Outcomes and actions

The Board spent considerable time discussing the customer viewpoints presented as part of the downstate New York supply analysis together with the report's findings and consideration of the robustness of the report's methodology.

The Board noted the impact of adverse weather conditions on customers across the network during 2021 and early 2022. Several storms in the UK and the US caused power outages in a number of areas. The Company was able to provide a strong operational response to Storm Henri in New England, due largely to the Company's investment in Rhode Island infrastructure over the past five years. You can read more about our storm response on page 19, in our business unit updates on pages 50 – 55, and in our Safety & Sustainability Committee report on page 106.

To address the challenges of engaging with end customers, who often have little prior knowledge of WPD, an enduring cohort of 96 customers have undergone a programme of research and focus groups over several months, enriching their understanding and ability to offer informed scrutiny of our plans.



Stakeholder group – Suppliers and contractors

How we engaged

Regular reports relating to interactions with our suppliers were provided to the Group Executive Committee and to the Board. Additional information about specific challenges as they arise, such as those presented by the heightened energy prices in the UK and the related security of supply are included in management reports to the Board to inform discussions.

In January 2022, the Safety & Sustainability Committee welcomed external speakers from Quanta Services Inc., a major supplier of infrastructure services to the Group in the US.

The Board receives an annual update on the approach taken to address modern slavery risks across our supply chain and the proposed commitments for the following year.

Outcomes and actions

We strive to work only with businesses that adhere to our Code of Conduct and continue to work closely with our suppliers and peers to share and build upon existing knowledge and promote best practices within the industry.

We have worked with Ofgem via the ENA with WPD participation in working groups to facilitate the recovery of Supplier of Last Resort (SoLR) costs for suppliers.

In response to developments in the UK gas and energy markets, we established an organisation-level Energy Market Risk Committee to monitor and consolidate the risks and impacts of the current market for reporting to the Board.

The Board considers and approves the Company's Modern Slavery Statement annually. This statement is available at nationalgrid.com/modern-slavery-statement.



Stakeholder group – Communities, governments and environment

How we engaged

We were a principal partner at COP26 in 2021. The Company hosted a number of sessions and events, including the Chief Executive co-hosting the launch of the Green Grids Initiative with the UK government.

One of the Board's aims is to provide positive advocacy for key public policy and regulatory changes in support of net zero. The Chief Executive and other members of senior leadership have met directly with members of the UK and US governments during the year as part of the Company's ESG outreach to highlight our continuing efforts towards a clean energy transition.

In response to the situation in Ukraine, the business has established a Crisis Assessment Team to assess the situation on an ongoing basis and additional Board reporting has been implemented to ensure prompt information flows. The Board advises as to actions that may be undertaken quickly, where appropriate.

Outcomes and actions

As part of enabling the energy transition for all, the US business established independent New York and New England Advisory Boards to provide objective input and external expertise to US senior leaders. The boards will enable the Company to build on existing relationships while creating new relationships, and advance the Company's profile as a socially responsible and purpose-led organisation among our stakeholders in the US.

The Company was invited and agreed to participate in the Green Grids Initiative's UK secretariat after COP26. Further information on this and our other COP26 activities is on pages 16, 17 and 69.

WPD was the first DNO to develop a Social Contract as a vehicle for delivering social and environmental value for our employees, customers and wider society. Co-created with stakeholders, the Social Contract sets out our ambitions to maximise the positive impact of what we do.

Read about our community programmes on page 62.



Stakeholder group – Our regulators

How we engaged

The Board receives regular updates from the business on regulatory matters.

The NY Monitor attended the Company's Board meeting in June 2021 to engage in discussion with the Directors about the Company's supplementary report to its Natural Gas Long-Term Capacity Report for Brooklyn, Queens, Staten Island and Long Island (published in 2020). The session covered the culture of the Company's US business, issues of supply and demand in New York and the need for third-party and regulatory support for innovative change. There was a second meeting with the NY Monitor in September 2021, hosted by a subset of the Directors.

The Company seeks to maintain a collaborative relationship with all its regulators. The Board met with Ofgem senior leadership in March 2022.

Outcomes and actions

During the year, US regulatory matters, the RIIO-ED2 regulatory consultation and our engagement with Ofgem have been considered in depth by the Board. The Board discussed the complexity of the downstate New York supply challenges and confirmed that this would continue to form part of the Board's agenda in 2022.

The Board noted the Company's engagement with Ofgem on changes to SoLR rules which will improve the viability of suppliers to retail customers.

As we work to drive progress towards net zero and a secure energy future, the Company has, and will continue to, consult extensively with Ofgem and BEIS on development and implementation of the FSO. Read more about the ESO on page 52.



Case study: Strategic portfolio repositioning



The Nemo Link Interconnector that runs between Britain and Belgium powers the Richborough and Canterbury, high-voltage overhead line.

In March 2021, we announced our plan to reposition our portfolio through three strategic transactions: the acquisition of WPD, and the sale of NECO and of a majority stake in NGG. The Board has spent a significant amount of time during the year overseeing the progress of these transactions and considering the ongoing implications for our business and stakeholders.

A Transaction Steering Committee (chaired by the Chief Executive) and a Transaction Management Office were established to provide executive-level oversight and a layer of governance over the transaction programmes. Regular reports and updates were provided to the Board on progress, including deep dives and the results of ongoing stakeholder engagement to inform decision-making at all stages.

Read more about our strategic portfolio positioning in our Chair's statement and Chief Executive's review on pages 10 – 14 and our strategy and risk management for climate change on page 74.

Section 172 considerations:

Likely long-term consequences of decisions

The decision to undertake a strategic portfolio pivot, and specifically the three transactions announced during the 2021/22 financial year, considers the long-term sustainable growth profile of the Group as key. The transactions are aligned to our wider ambition to be at the heart of the energy transition. The decision to acquire WPD, the UK's largest electricity distribution business, increases our exposure to electricity, which is expected to see a high level of asset growth as a part of the UK government's plans to decarbonise the energy system.

Interests of our colleagues

The Board has considered the impacts of the integration of WPD on existing and incoming employees and of separation on employees of NECO and GT at every stage. This includes the technological and operational aspects of their work environments and continuity of rewards. The Board oversaw an engagement plan for the integration of WPD employees and the Chief Executive toured key WPD sites in September 2021. The CEO of WPD will lead the UK distribution business as part of the enlarged Group.

Fostering business relationships with suppliers, customers and others

The Company expects to provide benefits for customers and suppliers as a result of greater interconnectivity of the network following the onboarding of WPD. In conjunction with the NGG Sale, the Company engaged in dialogue with BEIS in relation to the newly implemented National Security and Investment Act 2021 in the UK.

Impact on community and environment

The Company recognises the importance of WPD to the communities it serves and has announced its intention to maintain the WPD headquarters in Bristol and offices in other key locations. WPD's community programmes have been maintained and are being integrated into the Group's wider projects. The strategic portfolio repositioning is aligned to the Group's wider ESG strategy. For more information see page 74.

Maintaining a reputation for high standards of business conduct

The Board oversees the process for obtaining the appropriate regulatory approvals required for each of the transactions before they are able to complete. Regular updates on progress were provided to the Board.

Need to act fairly between members

The Company endeavours to provide investors with clear and transparent reporting on its plans and progress. The Investor Day in 2021 was an opportunity for investors to hear about the Group's five-year plan and to ask questions of a broad group of business leaders. The Company maintains an investment grade credit rating supporting its sustainable dividend policy.

Our commitment to being a responsible business

Our RBC focuses our actions on where we can create the most positive impact for society.

Responsibility at National Grid

Our purpose is to Bring Energy to Life and we do this through the delivery of the electricity and gas that powers our customers and communities, safely, reliably, fairly and affordably, and this is the core of our role as a responsible citizen. It is also vital to focus on how we fulfil our purpose, minimising negative impacts and enhancing our overall contribution to society.

We published our RBC in October 2020 and the commitments we made then remain the foundation of our activity. The RBC contains a series of commitments under five headings: the environment, our communities, our colleagues, the economy and our governance. These commitments are now built into business plans and performance against each commitment is regularly reviewed. During 2021/22, we received external validation from the SBTi for our National Grid Group interim GHG reduction targets, aligned to a 'Well below 2°C' pathway. Alongside this, we have undertaken a programme to release value from unclaimed shares over 12 years old and will explore ways to use this value to enhance our community investment programmes.

Our approach to reporting

We have published our second separate RBR for 2021/22, which has been guided by internationally recognised reporting standards. The RBR contains information relating to our material focus areas and provides detail on our management approach, performance and the new commitments set out in the RBC. Certain metrics are subject to independent external assurance. Our performance data is subject to different levels of assurance, including external (limited) assurance for key metrics, and a reporting process and controls review by National Grid's Finance second line risk and controls team.

This section of our Annual Report provides a high-level summary of our approach to responsible business and meets regulatory requirements with regard to certain responsible business-related topics. Except where expressly stated or clear from the context, the data in this section does not include WPD data. You can find the RBR and RBC here: nationalgrid.com/responsibility



Our communities

While continuing to place public safety and network reliability and resilience as top priorities, we are focusing in particular on the affordability and fairness of our service to the community and developing the skills of young people from some of the more deprived communities where we operate to help us in the clean energy transition.



The economy

We are continuing to develop our infrastructure, invest in innovation that benefits our customers and wider society, and pay the right tax, as well as working to influence our supply chain to focus on diversity and responsible behaviour.



Our governance

We will hold ourselves accountable on these commitments and ensure that stakeholder voices continue to be heard at the highest level, and that they influence our approach. We will ensure we maintain the highest standards of ethical conduct.



Our people

While continuing to ensure our people are kept safe and healthy, and that work conditions meet their expectations, we are stepping up our efforts in relation to diversity and inclusion – focusing on fairness in pay and opportunity, transparency and training around issues of gender and ethnicity.



The environment

While continuing to manage our environmental performance responsibly, we have emphasised the need to facilitate the transition to a clean energy system, to achieve net zero by 2050 for our Scope 1 and 2 emissions, dramatically reduce our Scope 3 emissions and continue to improve the biodiversity of land that we own.



Material issues for Global Reporting Initiative (GRI) reporting purposes

Our communities

- Affordability
- Community engagement
- Science, technology, engineering and mathematics (STEM) education
- Workforce development
- Network reliability
- Customer satisfaction
- Cyber security
- Public safety
- Connectivity

The economy

- Right tax
- Fair return
- Investment (long-term and local)
- Green financing
- Supplier prompt payment
- Supply chain engagement

Our governance

- Board representation and role
- Stakeholder engagement
- Emerging risks
- Skills for the future on the Board
- Transparency and reporting
- Culture
- Ethics and human rights
- Compliance

Our people

- Social mobility
- Diversity, equity and inclusion
- Fair pay
- Employee rights
- Employee health and safety
- Mental health and wellbeing
- Purpose, values and culture

The environment

- Enabling a clean energy system
- Our own emissions
- Air quality
- Land use
- Water
- Circular economy
- Habitat and biodiversity
- The energy transition

Our approach to managing responsible business matters

Our overall approach to responsible business can be summarised as:

- identifying our key stakeholders, understanding how they interact with our operations, activities and value chain, and the issues that are relevant to them;
- adopting a logical process for prioritising those issues, to identify the most material matters; and
- responding to the priorities by developing appropriate strategies, policies, programmes, targets and performance indicators, and reporting regularly and transparently on our progress.

In establishing our priorities, we are also guided by recognised frameworks such as the United Nations Global Compact Principles and Sustainable Development Goals.

Over the years, we have developed a series of processes and policies to ensure we manage responsibility issues effectively. Descriptions of the policies and the outcomes pursued in relation to the matters listed on page 60 are discussed, where material, throughout this section and our RBR.

A full list of our policies, and our Code of Ethics, can be found online, at nationalgrid.com/about-us/corporate-governance.

Assurance

We engaged PricewaterhouseCoopers LLP (PwC) to undertake a limited assurance engagement for 2021/22 data only, using the International Standard on Assurance Engagements (ISAE) 3000 (Revised): 'Assurance Engagements Other Than Audits or Reviews of Historical Financial Information' and ISAE 3410: 'Assurance Engagements on Greenhouse Gas Statements'. PwC have provided an unqualified opinion in relation to the 2021/22 KPIs and other data that are identified with the symbol and feature on page 1, pages 26 – 27, page 68 and page 83. Details of PwC's full limited assurance opinion and National Grid's Reporting Methodology are set out in the RBR. Data that has been assured by PwC is identified with the symbol .

Non-financial information

This section provides information as required by regulation in relation to:

Environmental matters

- pages 15 – 19; and
- pages 67 – 83;

Our employees

- pages 21 – 22
- page 27
- pages 50 – 55
- pages 65 – 66
- page 95 – 96

Social matters

- pages 15 – 19; and
- page 62

Human rights

- page 64 and page 263

Anti-corruption and anti-bribery

- page 63 – 64 (see also pages 101 – 105)

In addition, other information describing the business relationships, products and services which are likely to cause adverse impacts in relation to the matters above can be found as follows:

Business model

- pages 4 – 7

KPIs

- pages 24 – 27

Principal risks

- pages 28 – 32

Audit & Risk Committee report (our due diligence)

- pages 101 – 105

People & Governance Committee

- pages 99 – 100

Our stakeholders

- pages 56 – 59

Safety & Sustainability Committee

- page 106

Our communities

We go beyond our role in delivering safe, reliable energy for our communities so that everyone can play a role in an affordable energy transition.

Our commitments	Progress in 2021/22	Status
<p>We will deliver sustainable energy reliably. We're committed to making sure our systems are resilient and can play a leading role in disaster recovery</p>	<p>UK ET – 99.99993% US ET – 99.95894% US ED – 99.93472%</p>	<p>Our networks continue to run at a high level of reliability</p>
<p>Provide access to skills development for 45,000 people by 2030, particularly lower-income communities</p>	<p>5,233 people (cumulative since 2020/21) 3,972 people 2021/22 only</p>	<p>Our skills programmes have continued at a lower level through COVID-19</p>
<p>Deliver energy in a fair and affordable way to the communities we serve</p>	<p>We invested £18.3 million during 2021/22 to support communities affected by COVID-19 and recent rises in energy prices</p>	<p>We are investing more in community support for COVID-19 and rising energy prices</p>

“We have released significant new funds into our community investment programme.”

Engaging with our communities

We seek regular feedback from our customers and communities and act to improve performance. Our approach has been to go beyond providing the safe, resilient energy systems society expects, and work to ensure our economic and social role has the greatest possible impact. This involves developing infrastructure such as our work in East Anglia and helping consumers use energy more efficiently. Our WhenToPlugIn app in the UK informs consumers when the electricity in their homes is coming from clean and green energy sources.

We also partner with charity organisations such as Trussell Trust and Red Cross and encourage employees to volunteer in the community. 1,167 National Grid employees have registered to volunteer their time to support our Grid for Good programme.

An energy transition for all

The technological and environmental benefits of the clean energy transition should benefit everyone, and we will play our role in ensuring that no one is left behind. A fully decarbonised transportation infrastructure, for example, should be accessible by everyone across the communities we serve.

Part of this role includes protecting and supporting vulnerable customers. In the US, we do this through low-income programmes and energy-efficiency programmes. In the UK, in 2017, we established a £150 million Warm Homes Fund designed to support local authorities and others in helping approximately 50,000 households suffering from fuel poverty. During 2021/22, this fund has helped the Fuel Bank Foundation to provide crisis support. We are also supporting Citizens Advice in its work to support those struggling with the rising cost of living, including energy bills.

In 2020, we also launched the Green Light Signal, a smart light bulb that turns green when electricity in your region is more than 50% low carbon. The bulb and new WhenToPlugIn app are designed to engage customers and communities in the transition to low carbon and build understanding of progress.

Benefiting communities

We are supporting opportunity and growth in our communities. We launched Grid for Good in 2020 to achieve social mobility for disconnected young people in the communities we serve. This year the programme has supported 3,972 young people, helping to inspire and develop the skills needed for net zero. In the UK, we support communities affected by our infrastructure

projects, where grants are available for local projects that bring social, economic or environmental benefits. In addition, as part of capital delivery projects, we work with third-party organisations to provide community benefits at scale.

In the US, we support the National Grid Foundation, a non-profit charitable organisation. The Foundation awards grants to non-profit organisations focused on educational and environmental challenges. The Foundation currently disburses nearly \$4 million a year; for 2021, this was \$3.77 million.

In 2021/22, we launched Project C for our community to promote and develop our community programmes in New York State. Across Massachusetts, New York and Rhode Island, we provided total funding of approximately \$12 million a year through centrally-led programmes in support of charitable organisations.

During the year, we recorded over 23,416 hours volunteered by our colleagues in support of a variety of causes. As we come out of COVID-19 restrictions, we will need to grow our programmes to meet our 2030 commitment of 500,000 hours.

The economy

Our work to deliver secure, reliable, affordable energy underpins the wider economic success of our customers and their communities, their states and nations we serve. We are investing in innovation and raising Green Finance to help enable the energy transition.

Our commitments	Progress in 2021/22	Status
Maintain reinvestment in our infrastructure and demonstrate the social benefits of our new infrastructure programmes	Group – £6.7 billion (continuing operations)	In line with our commitment of reinvestment in infrastructure
Continue to invest in developing technologies and innovations that benefit our customers and wider society	We have developed our Green Financing arrangements and through NGP we have committed £93 million of investment in technology and innovation	On track to deliver our investment in developing technologies and innovations
Continue to influence our supply chain to operate as responsible businesses	CDP A listed for supply chain standards and members of the Race to Zero	We continue to develop our supply chain standards and have committed to at least 75% of our top 250 suppliers to have active carbon reduction targets by 2030

Through National Grid Partners, in 2021/22, we committed to

£93m

of investment in technology and innovation

Our contribution

Our economic contribution to society comes primarily through the delivery of safe and reliable energy but also through our role as an employer, a tax contributor, a business partner and community supporter.

We help national and regional governments formulate and manage their energy policies and commitments. Our approach to regulatory consultation is to seek a framework that puts consumers at the centre of our price control, while enabling secure, reliable energy supply and the clean energy transition, each of which are key in protecting future economic growth, safety and wellbeing in society.

During the year, we invested £6.7 billion (continuing operations) in our energy infrastructure. This investment allows us to continue to provide secure and reliable supplies and underpin the wider success of the economy.

Finance, tax and investment innovation

We published our Green Financing Framework in November 2019, and since then have issued bonds from our UK and US electricity businesses, now totalling £1,791 million, funding projects to enable the transition to clean energy.

We have issued £565 million Green ECAs for our interconnector portfolio to prepare us for a variable renewable energy (VRE) future. More information is available in our first Green Financing Report, now part of our Responsible Business Report.

NGP is the venture investment and innovation arm of National Grid, with a portfolio that comprises 38 companies and four fund investments at a fair value of \$491 million at the close of the fiscal year.

Our approach to tax is part of our commitment to being a responsible business and is guided by our values. We are committed to a coherent and transparent tax strategy and details of this are set out on page 47.

Partnership with our supply chain

We aim to build partnerships with small and local businesses, and all suppliers who set clear ambitions related to the environment, diversity, economic wellbeing and governance. We are fair to our suppliers and committed to paying them promptly. Across the Group, over 90% of supplier payments were made to contractual terms.

We have aligned our Global Supplier Code of Conduct to our RBC pillars and require suppliers to share our commitment to respecting, protecting and promoting human rights. We expect our suppliers to comply with all applicable local, state, federal, national and international laws or regulations, including the UK Bribery Act 2010 and the US Foreign Corrupt Practices Act of 1977. We also require them to adhere to the Principles of the UN Global Compact, the International Labour Organization minimum standards, the Ethical Trading Initiative Base Code and the US Victims of Trafficking and Violence Protection Act of 2000.

In the UK, we are an accredited Living Wage Foundation Employer and paying a real living wage is a requirement for all our suppliers based in the UK.

Expanding the diversity of our supplier base is an important part of our procurement strategy. In the US, we partner in a number of programmes including the Greater Boston Chamber of Commerce Pacesetters Program and the New York & New Jersey Minority Supplier Development Council. We are also partners in the Ascend Long Island project, providing specialised programmes to promote minority business growth and job opportunities.

Our governance

Adopting the right approach to governance and the highest ethical standards is critical to the success of our business.

Our commitments	Progress in 2021/22	Status
Continue to review and adapt our policies to reflect and support our responsible business commitments and ambitions	Appointment of a Chief Sustainability Officer, joining our Chief Diversity Officer. All RBR commitments embedded into business planning and targets	In 2021/22 we have moved our governance to better reflect our RBC priorities
Continually review the Company culture to ensure it is inclusive	Purpose has moved to be the most important cultural aspect in our annual leadership culture survey	In 2021/22 purpose has moved to be at the heart of how we do business
Commitment to a Group Executive Committee diversity ratio of 50% and ambition to achieve the same for Board diversity	The diversity of our Board is now 53.8%, Group Executive Committee diversity is 53.8%, and the diversity of our Senior Leadership Group is 49.5%	We have made positive progress in achieving diversity at Board level and good progress on diversity at senior leader level

Stakeholder engagement

We prioritise our responsibilities to our different but interrelated stakeholder groups and are careful to ensure we understand the interests of our stakeholders and reflect them in our decisions. Stakeholder engagement plays an important role in how our Board ensures responsibility in governance. This includes listening to our stakeholders' views, inviting external guests to meetings, and using independent research to bring the voice of the customer and other stakeholders into the Boardroom.

Highest ethical standards – ethical business conduct

We regard the potential for bribery and corruption as a significant risk to the business and have established policies and governance that set and monitor our approach to preventing financial crimes, fraud, bribery and corruption, including our Code of Ethics (covering anti-bribery and anti-corruption). We have a Company-wide framework of controls designed to prevent and detect bribery.

Our Code sets out the standards and behaviours we expect from all employees to meet our values of 'do the right thing', 'find a better way' and 'make it happen'. Our Group Ethics, Risk and Compliance Committee oversees the Code of Ethics and associated awareness programmes. We issue this Code and operate an e-learning course for all colleagues so they adequately understand our zero-tolerance approach.

We also have an Anti-Financial Crimes policy that applies to all colleagues and those working on our behalf. It sets out our zero-tolerance approach to bribery, fraud, money laundering, tax evasion and other corrupt business practices. To ensure compliance with the UK Bribery Act 2010 and other relevant legislation,

we operate an anti-financial crime risk assessment process across the Company and ensure adequate procedures are in place.

Any cases alleging bribery are referred immediately to the relevant ECC so the members can satisfy themselves that cases are managed effectively, including ensuring any lessons learnt are communicated across the business. We investigate all allegations of ethical misconduct thoroughly, take corrective action and share lessons learnt. We also record trends and metrics relating to such allegations.

Each business function is required to consider its specific risks and maintain a compliance framework, setting out the controls it has in place to detect and prevent bribery. Business areas self-assess the effectiveness of controls and provide evidence that supports reported compliance. Each year, all function heads are asked to certify the compliance in their area, and to provide details of any exceptions. This culminates in the presentation of a Certificate of Assurance from the Chief Executive to the Board (following consideration by the Audit & Risk Committee). You can read more about the Audit & Risk Committee's role, including its ongoing assessment of the adequacy of our anti-bribery and anti-corruption policies and processes, on pages 101 – 105.

In New York, we were the victim of criminal activity where former employees circumvented controls to commit fraud in the procurement of DNY Facilities work. We engaged professional consultants to perform a comprehensive review of our control framework. Whilst our procurement controls were found to be effective, we are implementing recommendations to make improvements to our control framework and Ethics and Business Conduct Program.

Highest ethical standards – human rights

Respect for human rights is incorporated into our employment practices, and values, and is integral to our Code of Ethics. This is vital in maintaining our reputation as a company our stakeholders want to do business with, and our employees want to work for.

Although we do not have specific policies relating to human rights, slavery or human trafficking, we cover these issues through related policies and procedures such as our approach to diversity, anti-discrimination, privacy, equal opportunity and, in addition, our Global Supplier Code of Conduct integrates human rights into the way we screen and interact with our supply chain.

Whistleblowing

We have a confidential internal helpline, and an external 'Speak-Up' helpline available at all times in all the regions where we operate. We publicise the contact information to our colleagues and on our external website so concerns can be reported anonymously. Our policies make it clear that we will support and protect whistleblowers and not tolerate any form of retaliation.

Our people

Our colleagues are vital to our business and we strive to be the employer of choice, attracting a diverse range of highly skilled people who feel they can be themselves at work.

Our commitments	Progress in 2021/22	Status
Be as transparent as possible internally and externally on gender and ethnicity/race	We have begun internal reporting on a much wider range of diversity metrics, to underpin our commitment to diversity	ON TRACK – Following launch of internal reporting, we expect further granularity of external data over the next 2 years
Achieve 50% diversity in our Senior Leadership Group and new talent programmes by 2025	Our Senior Leadership Group diversity is 49.5% and new talent programmes are at 55.6%	We have made steady progress on diversity of these key groups and we expect to achieve target ahead of 2025

Our values



Our culture

<p>Leaders who model change</p> <ul style="list-style-type: none"> • Leaders are responsible for change and encourage colleagues to make decisions and take responsibility. • Measured feedback for all leaders to adjust and align behaviour and increase accountability. • Leaders act safely, inclusively and with integrity. 	<p>Develop a results-orientated and purpose-driven mindset</p> <ul style="list-style-type: none"> • Greater accountability. • Improve success for our customers and continue to improve efficiency. • Embrace bold thinking and new ideas. • One team, focused on finding solutions. 	<p>Our values are at the heart of everything we do</p> <ul style="list-style-type: none"> • Colleagues are recognised for living our values. • Encourage storytelling of how we are changing; encouraging colleagues to speak up where people are not living our values. • Our values are instilled into our people, processes, policies and ways of working.
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Grid:voice engagement score

81%

(2020/21: 81%)

Safe to say 'yes' index in Grid:voice

73%

(2020/21: 67%)

“Our employee engagement score has stayed consistent.”

Reflecting the communities we serve

Diversity is central to our business at every level of operation and we want our Board and Group Executive Committee to reflect the communities we serve.

Our Board diversity is now 53.8% and our Group Executive Committee diversity is 53.8%. We also measure the diversity of our Senior Leadership Group¹, to indicate the diversity of internal progression potential to the executive level. The diversity of this group is 49.5%, which we consider positive for a technical or engineering organisation, but we will not consider ourselves sufficiently diverse as an organisation until we reflect our customers and the communities we serve.

1. Senior Leadership Group: this includes the Group Executive Committee members and the c.110 senior colleagues in the Company. Please note, this differs from the definition of senior management which includes both senior colleagues and subsidiary directors.



Case study: Community action in East London

In March 2022, a group of National Grid leaders volunteered at Mudchute Park and Farm, a community charity set in 32 acres of countryside in the Isle of Dogs, London.

Mudchute runs a working farm, stables and educational activities – giving under-privileged and under-represented communities in East London the chance to learn and play in a safe, natural setting. It receives a small grant but relies on volunteers and fundraising, so has struggled to cover the costs of animal care and the services it runs during the pandemic.

Working in teams and encouraged by TV presenter Tommy Walsh – a keen supporter of the charity – our leaders transformed a wild stretch of ground into an attractive wooded garden in just a few hours. They cleared weeds, built features to attract bees, insects and pondlife, laid paths, erected raised beds, planted flowers and fruit saplings, and repaired and painted a playhouse.

Their work leaves a legacy that will make a difference to hundreds of local school children and others in the neighbourhood for years to come. National Grid has committed to continue its support for the charity and provide opportunities for colleagues to return to undertake further work.



Volunteering work at Mudchute Park and Farm, East London, UK

Engaging our colleagues

We rely on our colleagues to achieve success for the business. We aim to attract and retain the best people by striving to be recognised as an employer of choice that values diversity.

We work towards going beyond the main aspects of the employer-employee relationship, to create a culture focused on the value we can add to society.

Colleague and contractor safety and wellbeing

We have a fundamental duty of care to ensure our colleagues are kept safe at work, and that their health is not affected as a result of their employment. The health, safety and wellbeing of employees and contractors is our primary concern. Any safety incident is one too many, and we work to improve our performance through effective policies, standards, procedures and training.

We measure safety performance through a combination of leading and lagging indicators, and LTIFR is one of the core KPIs of the business (see page 27). We take a proactive, risk-based approach to managing health and wellbeing, and have documented standards relating to occupational health and safety, process safety, and wellbeing and health. Incidents are reported to the highest level, and the Safety & Sustainability Committee of the Board undertakes regular deep dives on safety-related topics (see page 106).

Living wage and gender pay gap

We believe everyone should be appropriately rewarded for their time and effort. In the UK, we are accredited by the Living Wage Foundation, a commitment which extends to our contractors

and the work they do on our behalf. We also go above the Living Wage requirements and voluntarily pay our trainees the Living Wage. We undertake a Living Wage review each year to ensure continued alignment and increase individual salaries as required, and also promote the commitment to our suppliers.

We review gender and ethnicity pay gaps annually in both the UK and US, and further information is provided in the RBR.

Promoting an inclusive and diverse workforce

Our policy is that people who identify as having a disability should be given full and fair consideration for all vacancies against the requirements for the role. Where possible, we make reasonable accommodations and provide additional resources for employees who identify as having a disability. We are committed to equal opportunity in recruitment, training, promotion and career development for all colleagues, including those with disabilities.

The gender demographic table on the right shows the breakdown in numbers of employees by gender at different levels of the organisation. We have included information relating to subsidiary directors, in accordance with the Companies Act 2006 (Strategic Report and Directors' Report) Regulations 2013. 'Senior management' is defined as those managers who are at the same level, or one level below, the Group Executive Committee. It also includes those who are Directors of subsidiaries, or who have responsibility for planning, directing or controlling the activities of the Group, or a strategically significant part of the Group, and are employees of the Group. For further, more-detailed information relating to our

approach and performance on gender and ethnic diversity, please see our RBR.

We continue to be recognised in awards and benchmarks including being listed Outstanding Employer for Race at the UK Ethnicity Awards, recognised in the top 10 for Company and Diversity Team of the Year at the British Diversity Awards and moved from 480 to 187 in the Financial Times special report on Diversity Leaders. We have close partnerships with external best practice organisations and are active members of sector- and industry-wide groups that ensure we are sharing best practice and campaigning at a sector-wide level for greater inclusion for all.

Gender demographic as at 31 March 2022

	Our Board ¹	Senior management ²	Whole Company ³
Male	7	110	23,639
Female	6	58	7,117
Total	13	168	30,756⁴
Male (%)	53.8%	65.5%	76.9%
Female (%)	46.2%	34.5%	23.1%

- 'Board' refers to members as defined on the Company website.
- 'Senior management' refers to subsidiary Directors as well as the Senior Leadership Group.
- In scope are active, permanent employees. Band A-F, Staff, Union, Schemes & Expts, NG Renewables, WPD.
- Total Company Headcount includes UK GT and metering and varies from RBR due to WPD employees shown separately in RBR but included in Annual Report.

The environment

We are at the heart of the transition to net zero for our customers and the communities we serve, enabling the renewable and low-carbon energy supply and reducing emissions from our own emissions to net zero by 2050.

Our commitments	Progress in 2021/22	Status
We will reduce Scope 1 and 2 greenhouse gas (GHG) emissions 80% by 2030, 90% by 2040 and net zero by 2050 from a 1990 baseline	Connection of renewables and low-carbon supplies continues but for 2021/22 this reduction is outweighed by growth in LIPA emissions	ON TRACK – Our long-term plan to reduce emissions despite additional running of generation under contract with LIPA
We will reduce Scope 3 GHG emissions by 37.5% by 2034 from a 2019 baseline	Recovery of gas demand post-COVID-19 has led to a short-term return of emissions, rising back to historical pre-COVID-19 levels	ON TRACK – We are developing a long-term plan to drive down emissions in line with our 2034 targets and we have announced our vision in the US to fully eliminate fossil fuels from both our gas and electric systems by 2050, if not sooner
We will reduce SF ₆ emissions from our operations by 50% by 2030, from a 2019 baseline	During 2021/22 we reduced emissions through leakage reduction and announced a further important partnership with Hitachi to deliver a retrofit gas replacement for SF ₆	ON TRACK – Our work remains in line with our long-term plan to reduce emissions through leakage and then innovate with partners to find a lower emissions alternative
We will move to a 100% electric fleet by 2030 for our light-duty vehicles	We have joined EV100 to support the wider campaign to electrify, and launched a partnership with Ford for light trucks	ON TRACK – New programmes on light trucks and electric-only fleet choices to help achieve this commitment
We will reduce energy consumption in our offices by 20% by 2030	72% reduction in energy consumption against our 2020 baseline	ON TRACK – We have a number of schemes in the pipeline to make our buildings more efficient
We will improve the natural environment by 10% on the land we own by 2030	We have remediated 21.6 hectares of land in 2021/22	ON TRACK – With programmes delivering improvement to the natural environment ahead of 2030
We will achieve zero-carbon emissions from business air travel	We have delivered this commitment with a significant reduction in air travel due to COVID-19 and all remaining travel has been offset	ACHIEVED – We will continue to restrict air travel to below 50% of pre-2019 levels to maintain our commitments in the RBR

Energy consumption

Our energy consumption is a key area of focus as this, in turn, affects our carbon emissions.

Our energy consumption consists of both fuel consumed and energy purchased from third parties, including renewable energy. Total energy consumption was 3,502 GWh (12,606,859 Gigajoules), an increase of 12% on the previous year. Of this, 99% was from non-renewable sources, with no significant change from the previous year. Total energy consumption in the UK was 2,341 GWh and total energy consumption in the US was 1,161 GWh.

Operational energy use was 1,190 GWh (2020/21; 1,748 GWh), our transport energy use was 362 GWh (2020/21; 369 GWh), electricity consumption was 987 GWh (2020/21; 852 GWh) and heating was 163 GWh (2020/21; 156 GWh).

Electricity consumption includes the energy consumed in operating the generation assets in the US. Total energy does not include fuels consumed for power generation on behalf of LIPA, the contracting body, amounting to 19,610 GWh (net of energy required to operate the generation assets), a 21% increase on the prior year. Energy consumption related to power generation can vary greatly year-on-year and is determined by LIPA. We therefore report an energy consumption figure net of power generation allowing us to report underlying energy consumption across our business. For transparency, we have reported energy consumption from power generation as a separate line item. Transport covers company car business travel, and our own operational ground and aviation fleet. In addition to energy consumed, we calculate that system losses accounted for a further 11,117 GWh, of which 51% occurred in the US. This was a 0.3% decrease on the previous year.

Note: 2020/21 energy consumption has been re-stated to account for a minor misstatement following data reconciliation.

Climate change

Streamlined Energy and Carbon Reporting (SECR)

	mtCO ₂ e	
	2021/22	2020/21
Scope 1 (direct emissions)	 5.3	4.7
Scope 2 (direct emissions)		
Market based	 2.2	2.3
Location based	 2.2	2.2
Total Scope 3 emissions	 30.1	28.9
US Cat 3 (fuel and energy related activities)	 4.3	4.1
US Cat 11 (use of sold products)	 18.9	18.2
UK and US Cat 1 (purchased goods and services)	 6.7	6.6
UK and US Cat 7 (employee commuting)	5	5
UK and US Cat 6 (business travel)	11	6
UK & US Cat 5 (waste generated in operations)	7	6



Further reading
page 26

We generate GHG emissions across Scope 1 (direct emissions from our operational activities), Scope 2 (indirect emissions from our purchase and use of gas and electricity) and Scope 3 (other indirect emissions from activities and sources outside of our ownership or control). Our RBC sets out a number of ambitious climate-related commitments, the most significant of which is to achieve net zero by 2050. Through this commitment we will reduce Scope 1 and 2 emissions by 80% by 2030, 90% by 2040, and net zero by 2050, from a 1990 baseline. At the end of 2021/22, we have achieved a 65% reduction.

Our Scope 3 target covers emissions across our entire value chain with a commitment to reduce the carbon emissions by 37.5% by financial year 2034 (from a financial year 2019 baseline). Our interim Scope 1, 2 and 3 emission reduction targets are validated by the SBTi, demonstrating a clear, credible commitment to achieve our longer-term net zero strategy in line with a well below 2°C pathway. Other commitments, including those relating to reductions in SF₆ emissions and increasing the proportion of EVs in our own fleet, are set out in the RBC.

We will publish our Climate Transition Plan in June 2022 as part of the RBR.

We are working to reduce our business travel emissions by changing to alternative fuel vehicles and reducing business flights. The response required by the COVID-19 pandemic has resulted in more flexible ways of working and has reduced business travel. We will reduce the energy consumed in our buildings and procure green energy where possible.

Our Scope 1 emissions were 5.3 mtCO₂e, a 12% increase on the prior year (4.7 mtCO₂e). Of this, 89% arose in the US and 11% in the UK. The increase resulted mainly from generation emissions exceeding projected levels due to increased LIPA operating hours, required to replace shortfalls in off-island generation and transmission.

Scope 2 emissions are reported on a market and location basis:

- market based – 2.2 mtCO₂e, similar to the prior year
- location based – 2.2 mtCO₂e, similar to the prior year

Approximately 57% of Scope 2 emissions (location basis) were generated in the UK, with the remainder through US operations. Reduction in Scope 2 emissions was mainly due to a reduction in emissions from line losses, resulting from a reduction in grid electricity carbon intensity.

Our total Scope 3 emissions are calculated as 30.1 mtCO₂e for the year, an increase of 4% on the prior year.

We measure and report in accordance with the World Resources Institute and World Business Council for Sustainable Development Greenhouse Gas Protocol. 100% of our Scope 1, 2 and 3 emissions are independently assured against ISAE 3410 Assurance Engagements on Greenhouse Gas Statements, using an 'Operational Control' approach to determine our GHG emissions organisational boundary. The sources of Scope 1, 2 and 3 emissions are detailed in the RBR. We have also published a document, 'Our Reporting Methodology', which details the methodologies and protocols used for calculating key responsible business metrics.



Case study: COP26 activities – Green Grids Initiative

As part of our principal partner role for COP26, we supported the UK government in developing a new international partnership, the Green Grids Initiative. The first programme of this initiative, a new UK-India initiative was launched at COP26, with the CEO attending the launch alongside the Prime Minister of the UK, Boris Johnson, and the Prime Minister of India, His Excellency Shri Narendra Modi, and Director General of the International Solar Alliance, Dr Ajay Mathur. The programme, which is also supported by the US government, aims to share lessons and expertise between the two countries and, in doing so, accelerate international decarbonisation efforts. We are providing personnel and expertise to support the programme.

This initiative forms part of a number of programmes launched or supported by the UK COP26 presidency. We have also supported engagements with Indonesia, South Africa, Vietnam and Laos as part of our principal partnership of COP26, sharing lessons and expertise with peer utilities and energy ministries in those countries to build confidence in the path to net zero.



Right to left: National Grid CEO, John Pettigrew; UK Prime Minister, Boris Johnson; Indian Prime Minister, Shri Narendra Modi; and Director General of the International Solar Alliance, Dr Ajay Mathur – at the launch of the Green Grids Initiative, 'One Sun One World One Grid' at COP26



Case study: Green Light Signal and EV Road Trip

As we connect low-carbon power to our electricity networks we are creating the means to decarbonise much of the economy, including power, transport, industry and some heat.

Engaging our customers and communities in the transition to net zero is key to building confidence and understanding of the transition to net zero. As part of our engagement, our customers and communities told us they were not sure how green their power was today and whether the transition would happen. So we wanted to show them.

To show customers and communities how things were changing, in the UK we created a smart light bulb that turns green when the local power is low carbon, and in the US we created a number of EV Road Trips, to help build confidence in the transition to EVs. The Green Light Signal and associated 'WhenToPlugIn' app featured in UK national media, saw thousands of downloads, lit up 10 Downing Street ahead of COP26, and won a Bronze award at the Eurobest advertising awards. Our EV Road Trip received over 2 million impressions on social media and positive coverage from a range of stakeholders and the media.



Green Light Signal, a smart bulb that glows green when the local power is low carbon



The EV Road Trip, took place in 2021, covering New York, Massachusetts and Rhode Island

Task Force on Climate-related Financial Disclosures

Climate change is the defining challenge of the 21st century and in our role as The Energy Transition Company we understand the critical role we need to play in navigating the change and uncertainty facing the economies we serve in reaching their carbon reduction targets.

That change and uncertainty presents significant risks and opportunities to our business model that we manage with the due focus and attention required to enable the positive, responsible change needed by all of our stakeholders.

We are committed to developing a business model that is consistent with the objectives of the Paris Agreement, and therefore set a commitment in November 2019 to reduce our Scope 1 and 2 emissions to net zero by 2050. The details of the interim targets that we have set to achieve this are included in our RBC that we published in October 2020. This includes approved science-based targets for Scope 1, 2 and 3 emissions across our Group. This year sees the second iteration of our RBR which details our progress against all commitments set out in our RBC, including our emissions reduction targets.

In this year's disclosure we have fully complied with the FCA listing rule LR 9.8.6R(b). Our climate-related financial disclosures are considered to be consistent with the TCFD's recommendations and recommended disclosures. Please see the index on page 71 for where we respond to each recommendation and recommended disclosure.

In reaching full compliance this year, we have refreshed our energy transition scenarios and completed the first stage of our comprehensive Group-wide assessment into the physical risks facing the Group under 2°C and 4°C scenarios, with the outcomes detailed in this disclosure. We have also published our first Climate Transition Plan, which provides greater detail and clarity on how we will achieve our emissions reduction targets.



Crocker Wind Farm, National Grid Renewables, South Dakota, US

Highlights of the year

Development of a best-in-class Climate Change Risk Tool to assess the physical impacts from climate change scenarios

CDP Climate A rating for 6th year in a row

Acquisition of WPD which completes the pivot of our UK business towards electricity

Continued development of our net zero strategy

Specific science-based targets aligned to a 1.5 degree pathway for our UK Electricity Transmission and UK Electricity System Operator businesses

Principal partner for COP26 climate change conference

Publication of provisional EU Taxonomy aligned KPIs, including our forecast EU Taxonomy aligned capital expenditure for the next five years

Increased alignment of Executive remuneration to climate reduction targets

Our climate-related financial disclosures cover all of the TCFD's recommendations and recommended disclosures. The following index navigates between our disclosures and the TCFD's recommendations and recommended disclosures:

Governance

Disclose the organisations governance around climate-related risks and opportunities

- a) Describe the board's oversight of climate-related risks and opportunities: page 72 – 'Governance of climate-related risks and opportunities'
- b) Describe management's role in assessing and managing climate-related risks and opportunities: page 73 – 'Management's role'

Risk management

Disclose how the organisation identifies, assesses, and manages climate-related risks

- a) Describe the organisation's processes for identifying and assessing climate-related risks: page 74 – 'Our strategy and risk management for responding to climate change', page 74 – 'Identifying and assessing the impacts of climate-related risks and opportunities'
- b) Describe the organisation's processes for managing climate-related risks: page 75 – 'Climate change and enterprise risk management'
- c) Describe how processes for identifying, assessing, and managing climate-related risks are integrated into the organisation's overall risk management: page 74 – 'Identifying and assessing the impacts of climate-related risks and opportunities'

Strategy

Disclose the actual and potential impacts of climate-related risks and opportunities on the organisation's businesses, strategy and financial planning where such information is material

- a) Describe the climate-related risks and opportunities the organisation has identified over the short, medium, and long term: page 79 – 'Our significant climate-related risks and opportunities and our strategic response'
- b) Describe the impact of climate-related risks and opportunities on the organisation's businesses, strategy and financial planning: page 74 – 'Our strategy and risk management for responding to climate change', page 79 – 'Our significant climate-related risks and opportunities and our strategic response'
- c) Describe the resilience of the organisation's strategy, taking into consideration different climate-related scenarios, including a 2°C or lower scenario: page 76 – 'Physical modelling', page 78 – 'Transition scenarios modelling'

Metrics and targets

Disclose the metrics and targets used to assess and manage relevant climate-related risks and opportunities where such information is material

- a) Disclose the metrics used by the organisation to assess climate-related risks and opportunities in line with its strategy and risk management process: page 83 – 'Climate change metrics and targets', page 79 – 'Our significant climate-related risks and opportunities and our strategic response'
- b) Describe Scope 1, Scope 2 and, if appropriate, Scope 3 GHG emissions, and the related risks: page 83 – 'Climate change metrics and targets' shows cross-reference to separate ARA disclosure: page 26
- c) Describe the targets used by the organisation to manage climate-related risks and opportunities and performance against targets: page 83 – 'Climate change metrics and targets' shows targets, where considered relevant



The world's first row of T-pylons, Hinckley Connection Project, UK

Governance of climate-related risks and opportunities

The Board's role

The **Board of Directors** is responsible for setting and leading the Company's climate-related strategy and goals, and has oversight of climate-related risks and opportunities impacting the Group. The Board in turn delegates some elements of responsibility to various sub-committees as described below. Our Board members bring a variety of skills and experience to the Board, including expertise in ESG and climate change matters. See page 88 – 89 for an overview of the Board's skills and experience.

In the year, the Board received regular updates from the Chair of the Safety & Sustainability Committee, providing an overview of matters discussed at the Committee meetings. This included updates on progress against goals and targets for addressing climate-related issues. The Board also receives a CEO report at each Board meeting which informs on how the Company is tracking against performance against metrics and targets and progress is reported through a regular dashboard. Additional updates received by the Board in the year are outlined here:

- The Board was informed that the carbon emission reduction targets that had been set had been verified by the SBTi.
- The Board was updated on current ESG positioning in the Company, including key strategy enhancements to keep pace with and to choose where to lead as a responsible business, and assurance around the right governance in place to provide a central organisational focus to drive strategy and performance. The Board was also updated on the impact of acquiring WPD on the Company's ESG agenda and opportunities including climate-related matters.
- The Board discussed various aspects of the US business with US management, which included an update on the significant acceleration of the energy transition following President Biden's election and the Company's key clean energy ambitions in the US strategy.
- An enrichment session was hosted by the Chief Sustainability Officer and management to provide focus for the Board on the Company's ESG and climate-related commitments, ahead of Board approval of year-end sustainability reporting. The session promoted the understanding of the architecture of the ESG commitments, the flow of approvals at various Committees, key stakeholders that are engaged in the process and to assure that ESG stewardship is well embedded at Board level.

The Board also reviewed its entire governance framework in the year to ensure the remit of the Committees remained appropriate and well placed to progress the Board's agenda going forward, in particular around tackling climate change and monitoring progress against net zero aims. Three of the Board Committees refreshed their remit and focus, including the Safety, Environment & Health Committee, which became the Safety & Sustainability Committee. Within the business there has been a continuing move towards clearer ownership of climate issues; a Chief Sustainability Officer was appointed in September 2021, providing a single point of accountability across the Group for our overarching sustainability strategy to help deliver the energy transition and ensure we drive our own emissions down to net zero by 2050. The Chief Sustainability Officer attends all Safety & Sustainability Committee meetings and provides regular updates at Board and management level, including holding a Board ESG enrichment session, covering ESG commitments, reporting and developments. The remit of the Board and its Committees under our governance framework is set out on page 91. Terms of reference for the Board and its Committees are available at nationalgrid.com.

Climate governance



The Safety & Sustainability Committee is responsible for assessing and monitoring the Group environmental sustainability strategy and performance, as well as how the Company adapts its business strategy considering potential climate change risks and opportunities. This includes reviewing whether appropriate progress is being made against our net zero aims. Progress around GHG emissions was considered and challenged in the year. The remit of the Committee was extended in the year to provide further oversight of climate-related matters including climate scenarios within TCFD and progress against the Company's climate transition plan which they reviewed in the year. The Committee also noted the changes to the Group Climate Change Risk which moved from what was a single strategic risk, to two risks – one strategic and one operational.

The Remuneration Committee recommends to the Board the remuneration policy for Executive Directors and the leadership team including approving how ESG targets are incorporated into our incentive arrangements. The Committee also reviews workforce remuneration and monitors related policies, satisfying itself that incentives and rewards are aligned to National Grid's strategy, culture and long-term sustainable success. During the year the Committee considered the remuneration policy to be presented to shareholders for approval at the 2022 AGM and increased the proportion of incentives linked to ESG and progress against climate-related targets.

The People & Governance Committee oversees a diverse succession pipeline, helping to ensure we have the right people to deliver our strategy and net zero ambition. During the year the Committee approved the appointment of several new Non-executive Directors, taking into consideration skills and experience including climate. Martha Wyrsh, appointed in 2021, brings sound knowledge and experience around climate-related issues through her experience as CEO of a major international gas transmission business, as well as leading the growth and development of Vestas' renewables business in the US, where she spearheaded the expansion of its wind farm portfolio. Anne Robinson joined the Board in January 2022, bringing strong ESG experience and insight into investor perception around climate. Anne and Martha both joined the Safety & Sustainability Committee on appointment and along with the other members received an induction tailored to the Committee including around climate issues. See page 100 for more information around the skills and experience of our Board.

The Audit & Risk Committee has oversight over non-financial disclosures and assurance, including our RBR reporting, TCFD reporting and reporting in line with leading ESG frameworks such as the Sustainability Accounting Standards Board (SASB), the Global Reporting Index (GRI) and the EU Taxonomy. The Committee received papers in March and May 2022 on the financial reporting and disclosure considerations in relation to climate change.

The Finance Committee oversees our financing strategy, including the issuance of National Grid plc's €850 million Green Bond in September 2021. The Finance Committee also considers the financial impact of environmental factors on our credit metrics and relevant considerations with regard to debt investors, pension and insurance strategy.

Management's role

The Board delegates to management responsibility for asset investment and maintenance planning, implementation of the net zero strategy and overseeing the development of the RBC. Management is also responsible on a day-to-day basis for the climate-related risks and opportunities faced by the Group and for delivering the roadmaps to achieve the net zero strategy set by the Board. Throughout the year, the **Group Executive Committee** created a number of sub-committees with delegated responsibility over specialist areas that receive updates on climate-related matters ahead of presentation, where applicable, to the Board and Committees.

The Safety, Health and Sustainability Sub-Committee reviews and manages Group-wide safety, environment and health tracking/monitoring and related decisions. The Chief Sustainability Officer attends this Committee, providing a link between management and Board discussions around climate-related issues. In the year, the Committee spent time reviewing progress against the Company's climate-related targets and shaped related strategy. In particular, the Committee reviewed potential impacts on our climate strategy and progress towards net zero from external events including the war in Ukraine and the energy crisis.

The Reputation & Stakeholder Management Executive Sub-Committee provides oversight of responsible business policy development and engagement including in relation to the RBR and climate-related disclosures.

The Ethics, Risk and Compliance Committee oversees the implementation of the Group's risk management framework and assessment of principal risks including climate change.

The Policy and Regulation Sub-Committee agrees and provides strategic oversight of Group public policy priorities and positions.

The Investment Committee has delegated authority to approve investment decisions including those related to our Renewables business.

Other forums

A TCFD steering group comprising representatives from Group External Reporting, Sustainability, Corporate Strategy, Group Risk and Company Secretariat oversees progress against the TCFD recommendations and the publication of our annual disclosure.

A Responsible Business steering group, chaired by the Chief Sustainability Officer, provides oversight of the integration of responsible business into National Grid including the development of ESG targets and future ESG strategy.

Business Unit Green Financing Committees chaired by the Group Treasurer, provide governance over our Green Financing Programme and approve the publication of our Green Financing Report, which provides an analysis of how we utilised the proceeds from our portfolio of Green Bonds and their environmental impact.

Our businesses. Further delegation and responsibility is given to the core operational businesses including the Business Unit Presidents, who are responsible and held accountable for delivering the net zero roadmaps for their businesses.

Our functions. Corporate Affairs, Group Finance, Sustainability and Group HR are responsible for supporting the businesses in achieving their net zero pathways.



Paula Rospup Reynolds, onsite at London Power Tunnels, London, UK

Our strategy and risk management for responding to climate change

National Grid has four strategic priorities, as set out on pages 20 – 21, the first of which is to enable the energy transition for all. We have committed to support the decarbonisation of the communities that we serve, migrating to cleaner energy solutions. We have also committed to enabling a fully decarbonised electricity grid, to lead the way on the decarbonisation of gas and to enable the decarbonisation of transport. To support these strategic ambitions, we have recently executed a strategic pivot, via three transactions which will enhance our role in the energy transition. These transactions were the acquisition of WPD, the UK's largest electricity distribution network operator, in June 2021; and the proposed sales of our Rhode Island gas and electricity business in the US and of a majority stake in our UK Gas Transmission business expected to complete during 2022. Upon successful completion of all transactions, the contribution of electricity to National Grid's portfolio will increase to around 70% of the Group.

Across all of our businesses, we aim to play a leading role in enabling and accelerating the transition to a clean energy system, balancing decarbonisation, affordability and reliability of supply. Working closely with governments, other stakeholders, subject matter experts, and partners around the world and through our work for COP26, we focus on the technical and commercial solutions that will help achieve net zero for the energy sector. The biggest impact we can have is in enabling the economy-wide clean energy transition, but we must also

reduce our own impact on the environment and strengthen our resiliency to risks that we have less control over. To accomplish this, our RBC commitments to reduce Scope 1 (direct emissions from our operational activities), Scope 2 (indirect emissions from our purchase and use of electricity) and Scope 3 (other indirect emissions from our value chain activities) emissions align with the requirements of the Paris Agreement and SBTi. These commitments, along with our overall suite of environmental sustainability initiatives, are reviewed in accordance with our quarterly business reviews, incorporating the risk and opportunities management processes detailed below, and reported accordingly to the Group Executive Committee and Board.

Carbon pricing is one of the tools we use to support the delivery of our emissions reduction targets. We participate in traded carbon markets where our operations are covered by these frameworks, have regulatory incentives to reduce SF₆ and methane emissions that are underpinned by a carbon price, and have applied an internal carbon price of \$60/£45 per tonne (set in 2017) in investment decision making. Additionally our latest UK regulatory agreements apply a price of £241/tonne.

We've found that a carbon price alone is unlikely to drive the changes needed to meet our net zero goals. As important are policies and commitments, such as those we have to remove and reduce SF₆ leakage on our networks, and replace our fleet with electric vehicles. We are currently reviewing our approach to investment decision making to ensure we have the right mix of approaches to meet our commitments.

Identifying and assessing the impact of climate-related risks and opportunities

The scale of ambition and speed of change required to meet net zero emission targets, along with the changes in weather patterns, present both risks and opportunities to our business. These risks and opportunities, which are informed by our physical and transition risk scenario analysis and our horizon scanning processes, are built into our business planning and investment decision processes where we assess the degree of exposure to climate-related financial risks and opportunities. For our regulated businesses, our plans to address these are formulated with and agreed to by our regulators. Our management is incentivised through our target setting and remuneration policy to deliver the actions necessary to achieve our net zero objectives. This year, we agreed new ESG-related targets for our long-term incentive programme as detailed on page 113. We also launched a suite of internal climate change e-learning modules to help all employees learn more about climate change and our role in the energy transition. To accompany this, we conducted extensive pre- and post-COP26 employee engagement campaigns.

See page 75 for detail on our scenario modelling and page 79 for further detail on the significant risks and opportunities we identified and our response.



Case study Innovation for net zero

With funding from Ofgem's Strategic Innovation Fund (SIF), we are delivering three innovation projects to help deliver a net zero electricity network.

- The Sustainable Electrical Gas Insulated Lines (SEGIL) project will investigate the feasibility of an SF₆-free Gas Insulated Line (GIL) solution to provide cost competitive, high-capacity transmission connections over 2000MVA to increase available network capacity for new offshore wind generation. The project will look at the options to replace SF₆ with alternative low-carbon footprint gases as a viable means of GIL insulation.
- The Super Conductor Applications for Dense Energy Transmission (SCADENT) project will develop an understanding of the barriers, opportunities, and benefits of modernising existing electricity infrastructure by replacing conventional cables with the use of High Temperature Superconductor (HTS) cable technology. This will increase network capacity, delivering time, cost, and carbon savings with reduced energy losses and wider environmental benefits including reduced disturbance to local communities caused by construction activities.
- The Eye in the Sky Project, which utilises satellite data to improve grid resilience in emergency situations, will investigate new satellite data analytics solutions that can help GB networks to improve the visibility of infrastructure and assets, response in emergency and risk assess effects of climate change. Novel uses of satellite data and digital platforms can significantly improve network planning, modelling and forecasting capabilities, and improve the response to climate change effects like flooding, strong wind, snow storm or wildfire and provide warning to the networks for better planning and resource allocation during extreme weather events.

Climate change and enterprise risk management

Climate change is considered as part of our ERM process and has been one of our GPRs since autumn 2019. The ERM process is the framework through which the Group identifies, assesses, prioritises, manages, monitors and reports risks. This process is described on page 28 and includes the identification of a series of Group-wide controls and actions to mitigate the climate change principal risk (this is further described on page 30).

Historically, the climate change risk at the GPR level was managed through one broad risk covering both physical and transitional impacts of climate change on our business. In December 2021, the Executive Ethics, Risk & Compliance Committee agreed to split the climate change GPR into two distinct elements: adaptation and mitigation child risks. This has enabled greater alignment to our strategic objectives. The adaptation activity, absorbed within the 'significant disruption of energy' risk's control framework, will help ensure we continue to 'deliver for our customers efficiently', and the new standalone mitigation risk is aligned to our strategic objective, 'enable the energy transition for all'. This has generated greater oversight, focus and adoption of two distinct and proportionate control frameworks in line with the new Group risk appetite – mitigating downside risk, and maximising opportunities, where applicable.

Original Group climate change principal risk

There is a risk that we fail to identify and/or deliver upon actions necessary to address the physical and transitional impacts of climate change on our business and demonstrate our leadership of climate change within the energy sector.

1. Climate change adaptation risk

The adaptation risk relates to the physical impact of climate change to our assets across the Group. This adaptation element of the original climate change risk is managed as part of the 'significant disruption of energy' GPR, wider resilience activity and associated internal controls.

2. Climate change mitigation risk

The mitigation risk relates to our Group-wide strategy for climate change including our commitments of achieving net zero, and the role our Group plays in driving the energy transition. This is now managed as a standalone GPR.

We have further developed our risk and opportunity horizon scanning to assess critical trends to the energy transition. With our senior stakeholders and supported by external risk experts, we identified key indicators and metrics which are measured on a monthly basis versus thresholds. These are analysed against our current strategy and business plans for their potential impact and plausibility. Emerging risks are managed under our risk management framework with results reviewed by senior leadership (detailed further on page 29).

Integration of climate change into our overall risk management

Consistent with the Group's overall approach to risk management and internal control, climate change risk management activities take place through all levels of our organisation. Our risk governance model drives an effective 'top-down, bottom-up' approach which allows the Group Executive Committee to define and cascade the GPRs to each business area; and in parallel, all business areas identify and escalate the operational risks that could impact their business model and objectives. The disclosure on page 28 provides further detail.

The Group's Risk Taxonomy supports all levels of the business to categorise any climate change risk into one of our four taxonomy groups: strategic, operational, financial and compliance; sub-categories beneath these four groups allow the business to select a more granular taxonomy grouping with an assigned risk appetite. The individual business unit or Group Function Risk Committees oversee, discuss and challenge new and existing climate change risks using the ERM framework and scoring methodology to ensure each risk has an appropriate inherent, current and target score for likelihood, financial and reputational impact. Where current risk levels are outside of agreed target scores and our risk appetite (based on the taxonomy), the business area implements actions and internal controls to close the gap.

To support accountability for both aspects of climate change risk, each business unit and applicable Group functions are currently in the process of considering, and where necessary, adopting an individual adaptation and mitigation child risk. As WPD is new to the Group, we are still in the process of integrating WPD into our ERM processes and will report back on our progress with respect to WPD's climate change risk management next year.

Our climate-related scenario analysis

Scenario analysis to 2050 and beyond guides our strategic and financial planning with respect to climate change. Our scenarios consider the potential physical impacts to the Group of average global temperature increases of 2°C and 4°C. We also consider potential transitional impacts of scenarios of average global temperature increases of 1.5°C in accordance with the Paris climate agreement.

Transitional scenarios modelled

Physical scenarios modelled

Slow progress

- Decarbonisation progress is made but too slow to meet net zero targets
- Increase in distributed generation and local solutions where local authorities compensate for lack of overall national progress
- System becomes increasingly unequal



Orderly transition

- Reaches most net zero targets through an orderly approach
- Governments pursue suite of solutions for large-scale and consumer options
- Coordinated pathway between key market players e.g. orderly reduction in natural gas
- Increased investment in renewable electric generation and networks
- Gas network evolution to allow H2 clusters and/or clean gas blending



Acceleration

- Reaches 2030 net zero targets to be on track for 2050
- Electrification of heat and transport at fast pace
- Accompanied by large-scale investments (network, storage)
- Increased grid scale and interconnection with smart homes and end-use electrification
- Faster gas demand reduction



The scenarios executed in 2021/22 build on those of previous years and will evolve as we continually monitor emerging trends in technology and wider market developments. We developed the following stretching, plausible alternative futures for our society by using different assumptions across variables, including (but not limited to) technology, policy, consumer behaviour, competition and science. We tested the resilience of our business strategy against these different transition scenarios, whilst focusing our physical risk scenarios on the climate change hazards which present the greatest physical risk to the Group's operations.

Physical modelling

The climate hazards that we tested in our 2 degree and 4 degree scenario analysis are summarised below. The climate hazard data is sourced from the national climate assessments (NCA4 in the US, and UKCP18 in the UK). These assessments include data from the Federal Emergency Management Agency, NOAA Physical Sciences Laboratory, Environmental Protection Agency, Met Office, Environment Agency and academic literature. The scenario data is modelled using IPCC's Representative Concentration Pathway (RCP) scenarios of RCP8.5 (4°C) and RCP4.5 (2°C).

Climate hazard	Definition and Threshold	Potential change by 2070s (4°C scenario)*	Confidence level
Coastal flooding	Frequency of occurrence of coastal flood and future impacts due to sea level rise	Significant increase in frequency	Medium
River flooding	Frequency of occurrence of river flooding due to over 25mm (1 inch) daily rainfall	Significant increase in frequency	Medium
Storms (Compound Events)	Number of days per year when high winds are above 34 m/s (76 mph) and high rainfall above 25mm (1 inch) on the same day. Displayed separately for summer (March – August) and winter (September to February) seasons	Summer – slight increase in frequency Winter – no change in frequency, but potential increase in intensity	Low
High wind	Number of days per year when maximum daily wind gust is above 34 m/s (76 mph)	Decrease or no change in frequency, but increase in intensity	Low
Lightning	Number of lightning events	Increase in frequency	Low
High temperatures	Number of days per year when maximum daily temperature is above 30°C (86°F) in the UK and 95°F (35°C) in the US	Significant increase in frequency	High
Low temperatures	Number of days per year when maximum temperature is below 0°C (32°F) in the UK and 10°F (-12°C) in the US	Decrease in frequency	High
Freeze-thaw cycles	Number of days per year when maximum daily temperature is above 0°C (32°F) and minimum daily temperature is below 0°C (32°F) in the same day	Significant decrease	High
Heatwaves	Number of times per year when maximum daily temperature is above 30°C (90°F) and minimum daily temperatures is above 20°C (70°F) for 3 consecutive days	Significant increase in frequency	High

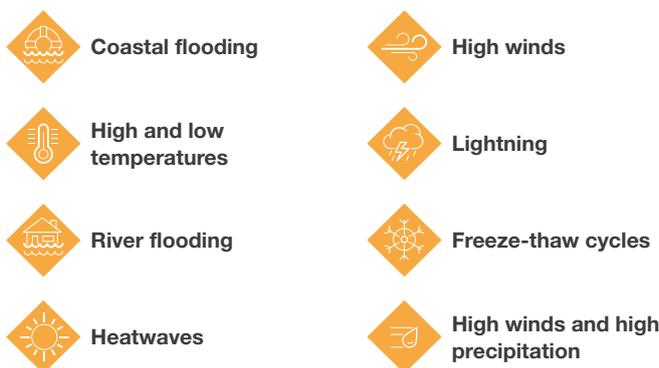
* The UKCP18 national climate assessment does not include data for the 2°C (RCP4.5) scenario. Therefore, the above highlights the potential changes under a 4 degree scenario for both the UK and the US. The changes outlined will still occur under the 2 degree scenario but there will be more intense and higher frequency of occurrence under 4°C.

Physical insights

In assessing the physical impacts of our scenarios, we grouped our portfolio of assets into 12 asset types to assess vulnerability to these hazards. For our 2 degree scenario, the climate data was not yet available in the UK national climate assessment chosen for this analysis, but based on the US findings under this scenario, we can assume similar impacts in the UK, as outlined below. Note, vulnerability to hazards does not mean that risks will be realised. Whether vulnerability translates into risk depends on the exposure (location) of individual assets relative to projected changes in climate hazards, as well as any site-specific resilience measures in place. Although to a lesser degree, our analysis has identified consistent risks that exist today, e.g. flooding, consistent with our wider risk management we are implementing necessary responses to those risks, e.g. flood defences, to ensure reliable operation of our assets and sufficient resilience today as well as into the future.

Most hazards are projected to increase in frequency in the future, with high temperatures and coastal flooding of particular concern. In most cases the level of risk is greater in a 4°C scenario than a 2°C scenario.

The hazards that we consider are:





Underground infrastructure is protected from high wind, compound (storm) events and lightning.



Some gas pipeline infrastructure in the US has a high risk of low temperature and freeze-thaw hazards today.



Risks from river and coastal flooding are significant for all asset types now and in future climates. By the 2070s, almost all assets by the coast may be at high risk from coastal flooding. In coastal areas, assets can be exposed to increases in occurrence of coastal flooding and high temperatures in the future. For some asset types, most of the infrastructure is located in coastal areas, such as terminals and converter stations in the UK, and LNG/CNG facilities and generation assets in the US. Generation assets on Long Island are highlighted for the particular risk of coastal flooding.



Most hazards are projected to increase in frequency in the future, with high temperatures and coastal flooding of particular concern. In most cases, the level of risk is greater in a 4°C scenario than a 2°C scenario.



Storms (compound hazards) are difficult to assess with confidence but they are likely to be more intense, though changes in frequency are unclear. We do know that climate change will lead to increased rainfall, wind speeds, and coastal flooding/storm surges due to sea level rises, so this may make future coastal storms more damaging.



Risks from high temperature and heatwaves will increase significantly over time for many asset types, particularly overhead lines for transmissions and distribution.

Our risk assessment shows the risk to our existing asset portfolio only. If the distribution and types of assets change, then the cumulative picture of risk will change too.

The insights from our physical risk scenario modelling show that all scenarios will result in physical impacts to the Group's assets across consistent areas of our operations; however, the impacts are most material in a 4°C scenario.

We are continuing to progress our physical risk analysis to inform our strategic planning and investment choices. Over the next year, we aim to implement a higher resolution assessment of key risks identified, particularly where risk is extremely localised, e.g. flood-related risk and coastal areas which are exposed to multiple hazards. We will consider the interdependencies between hazards to better understand the resiliency of asset criticality and prioritisation of actions to reduce risks. We also aim to add socio-economic data into the model, to understand where communities at greater socio-economic risk, like environmental justice communities, and at-risk assets are coupled. The next version of our risk assessment will also incorporate National Grid Renewables and WPD. For further detail on our assessment of the physical impacts of our scenario modelling, please refer to the Climate Change Risk Tool case study below.



Case study: Climate Change Risk Tool

We have developed an innovative Climate Change Risk Tool (CCRT) which allows each business to make more tailored use of the scenario analysis. The CCRT is available to all, so offers a simple way for employees such as asset owners, strategy managers and senior leaders to access the information they need for their particular interest area and at the right level of detail.

The CCRT gives a UK and US geographical overview of climate change risk and allows users to filter information focused to their business area, specific asset types and to a grid square level of 12km in the UK and 7km in the US.

The hazards that we consider are:



The CCRT shows the changing climate change risk profile for 2030, 2040, 2050 and 2070. An example of the results from the CCRT showing the changing risk profile of high temperatures on our UK Electricity Transmission assets under a 4 degree climate scenario is shown on the right. The CCRT shows that as we progress out to 2070, there will be an increased frequency of high temperature as a hazard in the UK, i.e. the number of days per year when the maximum daily temperature is above 30°C (shown on the-left hand graph and map). We can then see on the right-hand graph and map the level of risk this translates for our ET assets across the network and over time.



Transition scenarios modelling

Our transition scenarios are developed using driving forces which we monitor regularly as part of our risk management process and annually in our strategic horizon scan. In our analysis, we do not make a judgement on the likelihood of any one scenario relative to others; and by design, the analysed scenarios do not encompass all possible future pathways and their associated risks. There are limitations within the scope of our modelling, e.g. available data across other sectors, but to minimise this impact we have utilised a wide range of resources and compared our results with external scenarios.

Transition insights

Whilst current global climate policies and actions suggest a lower than 4°C scenario, a 4°C scenario was still modelled in line with our approach to scenario modelling outlined above. The transition impact to the Group is most significant in scenarios resulting in a lower degree of warming given the increased action required. The following five transition insights are therefore most relevant to a 2°C (or lower) scenario. However each still applies, albeit to a lesser extent, to a 4°C scenario as well.

Insight and factors

1

Urgent collective action required across society

To reach net zero requires new policies and technology development. Action is required by a wide range of stakeholders in the industry as a result of the public expectations on climate change; there is a push for new policies, action and government and State targets in the regions we operate.

2

Retaining consumer buy-in will be key

To reach net zero, consumers can drive domestic heating and transport decarbonisation by switching to low-carbon alternatives such as EVs and heat pumps.

EVs are expected to represent 90% of the fleet by 2050 with 30% of households electrified.

3

Electricity use and share of final demand will increase

Grids are expected to grow to deliver an increase of 50 – 160% of current demand by 2050 as fuel switching reduces final energy demand with both heating and transport sectors decarbonising.

4

Energy supply structure will shift

There will be a shift to renewables power, notable offshore wind and solar. Offshore wind is expected to triple in output from 2030 to 2050.

5

Pathways will adapt to global and local realities

The US Northeast region is expected to import hydrogen to support decarbonisation, but in the UK Blue hydrogen and CCUS may develop due to policy and geology.

None of the transition scenarios tested threaten the viability of the Group and we are in a strong position to adapt our portfolio to maximise the opportunities of the energy transition. Further detail on the transition risks and opportunities identified in our scenario analysis, including estimated qualitative and quantitative impacts where applicable, can be found on pages 79 – 82.

How we manage our climate-related risks

As part of our ERM process, risk owners and other key stakeholders establish internal controls to manage the risk within appetite. Regular risk reviews consider the effectiveness of individual controls as well as the collective strength of the internal control framework which determines the financial and reputational impact, and likelihood of the risk to materialise. Where current risk levels are outside of agreed target scores and our risk appetite, remedial or continuous improvement plans will be agreed to mitigate the current risk score.

The controls for our new climate change principal risk (mitigation) have evolved in line with our strategy and regulatory frameworks. They include controls on strategic oversight and governance (for example, Board and Group Executive Committee sign-off on strategy and oversight of delivery against net zero action plans), business unit roadmap and operational plans to deliver net zero targets (that are aligned to Group's strategy) and investment plans

(providing leadership to structural changes, e.g. bringing to scale new technologies). Controls related to the climate change risk are also reflected throughout other relevant risks, for example regulatory outcomes; political and societal expectations; and significant disruption of energy.

The significant disruption of energy risk and controls demonstrates how we are adapting as an organisation to manage the impact of climate change to our assets. Our key climate adaptation controls include the following:

- Fit for Future of Electricity Strategy: a corporate strategy that considers the future electricity business, including our network resilience and changing environment, and the steps to ensure our business remains resilient in the future, such as enhanced design standards, and investments on asset hardening and flood protection.
- Engineers Governance forums: Chief Engineers and Engineering Duty Holders meet to provide guidance and data-sharing on key topics such as resilience.

- Resilience and Asset Management Business Management Standards (BMS): sets out minimum requirements and framework for resilience capability and managing asset risk to ensure each business unit is prepared for the next disruptive event, including the changing environment.
- Organisational Resilience Competency Framework: to guide, measure and where applicable, heighten our resilience response across the Group under different climate change scenarios.
- Business Continuity and Crisis Management: ongoing development of a new business continuity software application to ensure a consistent view across the Group, and internal crisis management tool to respond more effectively to incidents, drive consistency, and identify and track actions.

The quality of assurance over key controls has been enhanced following roll-out of a new control testing methodology, that integrates the first line and second lines of defence.

Key controls related to Group and business areas GPRs are self-assessed by first line teams (control owners and/or performers), and tested by second line teams, who review the design and operating effectiveness; all captured in our GRC system. Any ineffective controls are identified and remediated. Risk owners across the Group have the ability to view assurance of their controls in real time, using newly developed PowerBI dashboards.

As outlined above, with regard to our greenhouse gas emissions, where specific actions are identified to achieve our strategy, drive desired behaviours and manage our risks, we set SMART targets for those accountable. Performance against those targets is published transparently, principally through the RBR and the results contribute to the assessment of remuneration for those accountable. For the most material performance measures, an external assurance opinion is received over the accuracy of preparation; a copy of this opinion can be found on our website.

Our significant climate-related risks and opportunities and our strategic response

Guided by our scenario modelling, strategic planning and risk management approaches articulated above, the climate-related risks and opportunities that pose a potentially significant financial or reputational impact are detailed below, along with our basis of measuring the risk/opportunity and our strategic response to each risk/opportunity that underpins our resilience assessments. To assess the relative materiality, we established scope of impact, timeframe and likelihood for each risk and opportunity using internal analysis, market data and input from subject matter experts across our business. Refer to the subsequent section for further information on measurement indicators, including our performance against them. We assessed which businesses would be impacted against whether there was a risk that could materially affect our ability to meet business objectives and/or, is of material importance to stakeholders. The timeframes we have used to assess the climate-related risks and opportunities are short: up to 2025, medium: from 2025 to 2030 and long-term: from 2030 to 2050. Our 'likelihood' assessment is an indicative estimate of the probability for material financial impacts with reference to the following categorisation:

- **Low:** Very unlikely to unlikely
- **Moderate:** About as likely as not to occur
- **High:** Likely to very likely to occur

Risk/opportunity	Potential impact	Our response
<p>1. Transition Risk & Opportunity Retaining customer buy-in will be key: cost transparency and scrutiny on Network Operators is likely to increase as there will be a focus on the impact of transition costs on customers' bills. Whilst National Grid can support the progression towards an affordable transition, there is a risk that customers and/or regulators may perceive that too little is being done to manage pressures on affordability, resulting in damaged reputation and damaged regulatory relationships.</p> <p>Business: Group-wide</p> <p>Timeframe: Short, medium and long term</p> <p>Likelihood: Moderate</p> <p>Measurement indicators: % of NG transmission/distribution costs on customer bills, customer trust survey, feedback through the fair transition plan.</p>	<p>The reputation of our business has wide implications to our operations; affecting our regulatory negotiations and the resulting regulatory returns and incentives of the frameworks within which we operate. Our reputation can affect our cost of doing business, from customer feedback, employee retention, productivity, supplier relationships, and ultimately our share price. All have impacts that can move in either way, depending on our perceived success in enabling the fair and affordable energy transition.</p> <p>Due to the nature of the risk/opportunity, and the degree of external variables affecting the matter, it is difficult to meaningfully quantify the risk. However, if not managed effectively, it could undermine the corporate strategy and materially impact our financial performance.</p>	<p>Being at the 'heart of a clean and fair transition' is our purpose and our regulatory strategy team has a strong focus on affordability for consumers, working with regulators to minimise impacts to customer bills and to introduce affordability mechanisms. We will also advocate for anticipatory investment to minimise the costs to consumers and will use our CCRT to inform our investment decisions to ensure the resilience of our assets.</p> <p>An example of our focus on affordability for customers is our recently launched Expanded Solar-For-All programme in the US, where nearly 160,000 National Grid upstate New York electricity customers will benefit from new solar-energy bill credit, thanks to a joint offering from National Grid and the New York State Energy Research and Development Authority (NYSERDA). The Expanded Solar-For-All programme, approved by state regulators in January 2022, will automatically provide monthly credits to income-eligible customers enrolled in National Grid's Energy Affordability Programme.</p> <p>The programme is designed to deliver the benefits of community solar to low-income customers, who are often shut out of renewable energy sources due to cost. Community solar is a large array of solar panels at an offsite location that allows customers to access solar power without installing panels on their homes. Developers build and operate the community solar projects, and energy delivery companies like National Grid purchase and distribute the credits generated by the projects to participating customers.</p> <p>The bill credits would grow over three years as the programme expands, with customers receiving monthly discounts. In Expanded Solar-For-All's first phase, National Grid anticipates providing \$240 million in total bill credits during the 25-year lifetime of the programme. A proposed second phase would further expand the programme, doubling the total anticipated bill credits to \$480 million over the programme's lifetime. The second phase will be contingent on approval by state regulators.</p> <p>The Expanded Solar-For-All programme brings to life two pillars of Project C, National Grid's commitment to the communities where we work and live: clean energy and sustainability, and environmental justice and social equity.</p>

Risk/opportunity	Potential impact	Our response
<p>2. Transition Risk & Opportunity Urgent collective action is required: with its central role as the backbone of the energy sector, National Grid can play a crucial role in the transition. As a result, public focus will increase on our Company, increasing reputational risk.</p> <p>Business: Group-wide</p> <p>Timeframe: Short, medium and long term</p> <p>Likelihood: Moderate</p> <p>Measurement indicators: GHG emissions, Climate Transition Plan, customer feedback</p>	<p>The reputation of our business has wide implications to our operations; affecting our regulatory negotiations and the resulting regulatory returns and incentives of the frameworks within which we operate. Our reputation can affect our cost of doing business, from employee retention, productivity, supplier relationships, customer feedback, cost of/access to finance and ultimately our share price. All have impacts that can move in either way, depending on our perceived success in enabling the energy transition.</p> <p>Due to the nature of the risk/opportunity, and the degree of external variables affecting the matter, it is difficult to meaningfully quantify the risk. However, if not managed effectively, the matter could undermine our corporate strategy and materially impact our financial performance.</p>	<p>To date, we have endeavoured to take account of this by being at the heart of a fair, clean and affordable future, working with governments, policy makers and regulators to shape net zero strategy. Accordingly, we have positioned ourselves as 'The Energy Transition Company' acting as a principal sponsor of COP26, and our ESO business has set an ambition to operate a zero-carbon system by 2025, with the goal to run 100% carbon free energy 24/7/365 by 2035. We will continue to focus on enabling the transition, including working in partnership with our regulators and other stakeholders to develop investment plans in line with the net zero commitments of their jurisdictions, whilst managing the costs to consumers.</p> <p>We have developed roadmaps and track progress against key milestones for each of our business units which include the actions, conditions and assumptions that will support the delivery of our emissions reduction targets. These plans are consolidated into a group roadmap which is presented in our Climate Transition Plan, which we've published alongside this year's Responsible Business Report.</p>
<p>3. Transition Opportunity Electricity use and share of final demand will increase: with the transition pivoting energy needs from fossil fuels to cleaner gas and electricity, the Group will deliver a larger share of society's needs in the future. This will increase investment opportunities as growth is across transmission and distribution electricity networks.</p> <p>Business: ET, ED, NY, NE, NGV, ESO</p> <p>Timeframe: Short, medium and long term</p> <p>Likelihood: High</p> <p>Measurement indicators: EU Taxonomy KPIs, green capex forecasts, GHG emissions</p>	<p>Sensitivities have been run versus our business plan to investigate the impact of the scenarios and we will continue to monitor triggers to capital expenditure.</p> <p>We estimate that the Orderly Transition or Acceleration scenario would result in an increase over the Slow Progress scenario of between 0.5% to 1.0% in underlying operating profit CAGR over the period to 31 March 2031. Capital expenditure increases may include expanding electricity networks, natural gas leak reductions and investment and expansion of renewable generation operations, but these are expected to be within our regulatory regime.</p> <p>Beyond 2030, and in line with our scenario modelling, the trends towards greater electrification, driven by expanded renewables generation and investment into decarbonising our gas networks is expected to continue and may accelerate.</p>	<p>Our acquisition of WPD positions National Grid for this increase in electricity use across transmission and distribution. We are also continuing to invest in both onshore renewables via National Grid Renewables and in our interconnector portfolio, which will form an important part of UK decarbonisation.</p> <p>Across our businesses, we are also heavily investing in the infrastructure required to support the decarbonisation of transport and during 2021 in the US we delivered 1,684 EV charging ports in our jurisdictions, a company record for a calendar year.</p> <p>We are also carrying out critical studies and pilots exploring how to decarbonise our gas networks, for example the HyGrid project described in Transition Risk 6 and the FutureGrid project, which is testing the possibility of converting the NTS in the UK to transport hydrogen.</p> <p>In the UK, we are continuing to work with the Department for Transport and the Office of Zero Emissions Vehicles to ensure that the underlying network infrastructure is in place, ahead of need, to support the successful delivery of Project Rapid. We welcomed the Transport Decarbonisation Plans commitment to publish an Electric Vehicle Charging Infrastructure Strategy and establish a Delivery Body to progress the grid upgrades required to meet future ambitions.</p> <p>We also continue to engage with key stakeholders from across all modes of transport through our 'ask, not tell' engagement principles to understand the main barriers and potential future demand and infrastructure requirements for each sector.</p>

Risk/opportunity

4. Transition Risk

Electricity use and share of final demand will increase, alongside increasing volumes of intermittent renewable energy. System resilience will be key to ensure security of supply.

Business:
ET, ED, ESO

Timeframe:
Short, medium and long term

Likelihood:
Moderate

Measurement indicators:
Network reliability

Potential impact

Our role as the ESO is pivotal to delivering the energy transition. If the system operator is not prepared with the systems and processes to operate a decarbonised energy supply system, there will be significant costs from increased market inefficiency and the potential for network outages impacting our customers.

In the shorter term, failures could affect us through lost regulatory incentive income, which link directly to reliability.

See our Segmental analysis and Revenue notes on pages 156 and 158 for further detail on the size of our ESO business.

Our response

Our ESO business is investing to ensure it is able to operate the system safely and securely at zero carbon whenever there is sufficient renewable generation online and available to meet the total national load. This year, the ESO agreed to contracts with five parties, worth £328 million over a six-year period, in a world-first approach to managing the stability of the electricity system.

We are also supporting the accelerated development of electricity grids worldwide. At COP26 we joined the UK and Indian governments to launch the Green Grids Initiative, One Sun One World One Grid (GGI-OSOWOG), aiming to accelerate global expansion and modernisation of energy grids. This is an ambitious plan backed by over 80 countries and looks to harness the full potential of renewable resources globally, through much greater interconnection of electricity grids, so electricity can be moved from where it's generated to where it's needed. The GGI will help make this happen by bringing together a global coalition of stakeholders, including governments and businesses, to speed up the expansion of energy grids across regions and continents. We are playing a leading role in this as a member of the GGI.

5. Transition Opportunity

Energy supply structure will shift: Growth in investment will occur in our markets as well as in adjacent markets, providing opportunity for our NGV and NGP businesses.

As pathways adapt to global and local realities, technologies and market expectations will develop new commercial opportunities from the transition towards net zero that will continue to present opportunities to shape our portfolio and strategy.

Business:
NGV, NGP

Timeframe:
Short and medium term

Likelihood:
Moderate

Measurement indicators:
NGP value creation, NGV capital investment, EU Taxonomy KPIs, cumulative investments into large-scale renewables, investment in R&D

With effective investment and proactive market engagement, there will be opportunities to grow new and existing revenue streams and to generate sustained green capital investment.

We also anticipate the opportunity for investment in large-scale renewables to expand as the energy transition accelerates, with further innovation to create opportunities of additional revenue streams in the future. Our capital investment forecast to 2026 contains c.£1.6bn relating to renewables.

Our NGV and NGP businesses actively monitor and participate in emerging growth opportunities and will continue to do so in the future. During the year, National Grid Renewables invested £199 million into renewable generation assets via the Emerald joint venture. Further to this, NG Renewables invested £223 million in the offshore wind seabed lease awarded in the New York Bight. During the year, NGP, our venture capital business that invests in energy technology startups, made 13 new investments bringing the total portfolio value to \$491 million across 38 investments. Example investments include: TS Conductor, a California-based company whose technology replaces legacy materials in high-voltage electricity transmission lines with a next-generation conductor that doubles the lines' capacity without the need to retrofit towers or other infrastructure; and Resilience, a UK-based startup that helps companies manage their transformation to net zero emissions.

We also continue to invest in our interconnector portfolio and, once Viking Link becomes commercially operational in 2023/24, NGV will hold 7.8 GW of interconnector capacity and the focus will switch to multi-purpose interconnectors, which will increase interconnection and facilitate the construction and expansion of wind farms in the North Sea.

Risk/opportunity	Potential impact	Our response
<p>6. Transition Risk Pathways will adapt to global and local realities: there are multiple net zero pathways for heating which have different impacts for our US gas activities. Whilst all pathways expect a reduction of the usage of fossil gas in the long term, there are opportunities for the development of fossil-free alternative fuels. The different pathways result in a risk that our natural gas infrastructure will not be useful as long as is currently assumed in our financial planning and accounting.</p> <p>Business: NY, NE</p> <p>Timeframe: Long term</p> <p>Likelihood: Moderate</p> <p>Measurement indicators: Gas UEL sensitivities, GHG emissions, Climate Transition Plan</p>	<p>We have performed sensitivity analysis to assess the impact shortening the useful economic lives of our gas business assets would have upon the Group's financial results, which may result in an increase in depreciation expenses of up to £180 million to 2050 for US regulated assets.</p> <p>This sensitivity calculation excludes any assumptions regarding the residual value for our asset base and the effect shortening asset depreciation lives would be expected to have on our regulatory recovery mechanisms. For further information, see page 181.</p>	<p>We are pursuing zero fossil fuel gas and electric systems by 2050, if not sooner, in the US. The vision proposes a hybrid approach to heating that enables customers to have more affordable and practical choices to become fossil-free. More details can be found in our Vision Report https://www.nationalgrid.com/us/fossilfree.</p> <p>We will continue to engage in key regulatory proceedings and processes in New York and Massachusetts to maximise recovery on our gas business assets. These include the ongoing DPU 20-80 'Future of Gas' proceeding in Massachusetts and a KEDNY/KEDLI depreciation study that will be submitted to the New York PSC in advance of our rate case filing in 2023.</p>
<p>7. Physical risk Our assets are at risk of physical impacts from extreme weather events such as storms and flooding. There will also be increased frequency of weather incidents and changing long-term climate trends leading to asset damage and operational risks.</p> <p>Business: Group-wide</p> <p>Timeframe: Short, medium and long term</p> <p>Likelihood: High</p> <p>Measurement indicators: Network reliability, major storm costs, climate change risk tool outputs</p>	<p>We experience significant costs as a result of asset damage and operational interruptions due to major storms (2021/22: £163 million 2020/21: £150 million). We therefore continue to invest in storm hardening across the Group, with a further £36 million invested in the year.</p> <p>We are in the process of expanding our scenario modelling to forecast the likely financial implications of a 2 and 4 degree scenario over the long term. We expect to report these results in our 2022/23 reporting.</p>	<p>An example of our work in this area is the \$741 million of investment our New York business has committed to in the five year capital investment forecast to FY26. This investment covers a range of storm hardening measures, upgrades and repairs to our infrastructure to make it less susceptible to storm damage. These include inspection and maintenance, minor storm hardening, vegetation management, flood mitigation, side tap fusing, and multi-value transmission reliability.</p> <p>In the UK, our ESO business has undertaken Mapping Impacts and Visualisation of Risks (MIVOR) of extreme weather on system operation to evaluate the impacts of extreme weather events on system operation up to 2050 under RCP 4.5. The results will enhance the accuracy of energy system impact modelling and will also focus on the impacts of the whole supply chain, renewable generation, network assets, and demand, ensuring that the learnings produced are relevant to the whole energy system.</p>

Climate change metrics and targets

We have metrics and targets that allow us to measure our impact on the environment, demonstrate our commitment and monitor our performance. These were published in October 2020 within our RBC and, on an annual basis, we report our progress against those targets in our RBR and our key metrics in respect of our GHG emissions can be found on page 26. We have a commitment to reduce our impact by achieving net zero for our Scope 1 and 2 emissions by 2050, with interim targets of an 80% reduction by 2030 and a 90% reduction by 2040, from a 1990 baseline. Alongside this, we have a Scope 3 emissions reduction target of a 37.5% reduction by FY 2034 from an FY 2019 baseline year. This target includes all of our Scope 3 emissions. Our GHG emissions reduction targets are science-based and approved by the SBTi.

Numerous underlying metrics support and complement this goal as part of our broader sustainability ambition, including reducing our energy consumption, enhancing the natural value of our landholdings, recycling and/or reusing our recovered assets and reducing our office waste. These are discussed in more detail on page 67 and in our RBR. The metrics

comprise several business unit level metrics that are then tracked and monitored by business unit, and presented to senior management on a quarterly basis, with accountability at the local level.

With reference to the principles of the EU Taxonomy, we have disclosed the proportion of our IFRS revenue, operating expenditures and capital expenditures that align with the climate change mitigation and adaptation objectives of the EU's taxonomy. Given the climate change mitigation objective's alignment to the principles of the Paris Agreement, the disclosures provide a transparent view of the Group's compatibility with the net zero goals of the economies we serve during the year ended 31 March 2022. Our assessment is presented within our RBR; please see page 53 of our RBR for the complete disclosure.

We continually review our metrics and targets to ensure that the data we are measuring is meaningful, aligns with our strategy, and is providing the information the business and our stakeholders need to effectively monitor our performance and demonstrate our progress. In June 2022, we published our Climate Transition Plan alongside our RBR. Note, whilst we do not consider water use as a significant climate-related financial risk for the Group, performance metrics are contained in the RBR.

Further, we are closely monitoring developments regarding the UK's greening finance initiative, the formation of the ISSB and the proposals to deliver a comprehensive global baseline of sustainability-related disclosure standards. Whilst we currently leverage the GRI, SASB, EU Taxonomy, EEL and TCFD frameworks in our RBR to maximise the usefulness of our reporting, we are encouraged to see advancement to further align sustainability reporting disclosures. Please also refer to the RBR for the limited scope assurance opinion received over our most material sustainability metrics.

A complete index of the quantitative measurement indicators used to manage each climate-related financial risk and opportunity is below:

Measurement indicator	Risk/Opportunity	2021/22	2020/21
Scope 1, 2 and 3 emissions and intensity ¹	1, 3, 6	See page 26	
Consumer Trust Survey (US) ¹	1, 2	62.4%	66.2%
NG UK's transmission costs' contribution to consumer bills ¹ 	2	£29.04	£29.52
NG UK's distribution costs' contribution to consumer bills ¹ 	2	£98.85	£95.81
US Electric: Average Customer Bill (Low Income Customers Excluded) ¹ 	2	\$1,613.35	\$1,563.14
US Gas: Average Customer Bill (Low Income Customers Excluded) ¹ 	2	\$1,314.24	\$1,156.45
US Electric: Average Low Income (only) Customer Bill ¹ 	2	\$1,107.07	\$1,026.82
US Gas: Average Low Income (only) Customer Bill ¹	2	\$904.72	\$771.56
Green Capex five-year forecast (2021/22-2025/26)	3	c.£24bn	n/a (1 st year of reporting)
Network reliability ¹	4, 7	See page 26	
NGP value creation	5	See page 55	
Cumulative investments into large-scale renewables	5	See page 81	
NGV capital investment	5	See page 25	
Investment in R&D	5	See page 162	
Gas UEL sensitivities	6	See page 181	
Major storm costs	7	See page 39	

1. Refer to RBR reporting methodology for calculation methodology: <https://www.nationalgrid.com/responsibility/responsible-business-report>

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Doing Right Now



Transforming our network

We are rewiring the Capital, reinforcing London's electricity supply for decades to come. A six-year, £1 billion project in South London via 19 miles (30 kilometres) of deep underground tunnels.





Corporate Governance Report

Governance at a glance

Key highlights

98%

Board meeting attendance for the year ended 31 March 2022

46%

female representation on our Board as at date of report

15%

ethnic minority representation on our Board as at date of report

66%

Average % of issued share capital voted at 2021 AGM

78%

employee engagement score for 2021/22

50.97p

dividend per ordinary share in 2021/22
Increase of 3.7% on prior year

100

perfect score on Human Rights Campaign Foundation's 2022 Corporate Equality Index

4

Board members appointed in 2021/22

99%

shareholder vote 'For' 2021 AGM resolution on climate change commitments and targets

UK Corporate Governance Code – 2021/22 Compliance Statement

The Company is subject to the Principles and Provisions of the UK Corporate Governance Code (the 'Code'), which it has applied consistently. The table below outlines how the Group has structured the Governance section of the Annual Report on the Principles of the Code.

For the year ended 31 March 2022, the Board considers it has complied in full with the Provisions of the Code.

This Corporate Governance report as a whole explains how the Company has applied the Principles and complied with the Provisions of the Code, but the below acts as a guide to where the most relevant explanations are given:

Principles of the Code

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Chair's statement



Dear shareholders,

I am pleased to present to you the 2021/22 Corporate Governance Report, my first as Chair of the Company.

The year in review

There has been no shortage of opportunities for engaged governance by the National Grid Board. The Company had a full agenda coming into the fiscal year: overseeing performance amidst a lingering pandemic and then the safe return to work; ensuring that our provision of service is consistent with society's expectations of us; advancing our agenda of change as we make commitments to reach net zero; seeing through several major transactions; and supporting an evolving Group culture of accountability, agility and performance. The foregoing promised a busy year. Over the summer of 2021, a crisis in the retail energy markets in the UK began to unfold. Leading up to COP26, there were increasing pressures on both sides of the Atlantic for more rapid decarbonisation of energy. Then the threats of war became a stark reality. Ukraine was invaded and, almost overnight, energy supply security became the dominant theme. Our stakeholders have to be assured that we can identify and manage all of these risks. At the same time, we have to help balance aspirations regarding transformation with the exigencies of current delivery. All of these responsibilities are our job as board members, along with ensuring that we have a qualified, engaged, diverse workforce to succeed amidst an era of great change.

My tenure as Chair commenced as directors were nearing or had completed their nine-year terms. Identifying suitable qualified replacements who could quickly come up to speed and yet bring fresh perspectives was essential. Fortunately, a well-vetted business plan was already in place and the change in board composition was orderly. We were able to quickly review Committee remits and composition and to refine the responsibilities and ownership of the Committees where much of the Board's work is undertaken.

Nevertheless, one thing I've observed in my years as a Non-executive Director is that operationally urgent matters can easily overtake consideration of truly important matters in a busy board agenda. So last summer, our Board took the time for what I believe was a critical set of conversations – namely coming to agreement on what were the big strategic questions that National Grid was

likely to face in the next several years. We asked ourselves, what topics would be worthy of the Board's time? Why were they important? How would we get the most salient information? Which external and internal resources would be available to shape our perspectives? These questions may appear simplistic. But in my experience, effective stewardship starts by making sure that a board spends time on the matters that really count. I hope to use this report as a means to share with you some of the issues we are tackling in our Board discussions.

None of the foregoing has any meaning unless we cast a critical eye on our own performance. We have adopted board goals and we retained an independent advisor to help us assess our group effectiveness as well as the effectiveness of each director; see page 97 for further detail. These honest conversations on how we are doing are foundational to our being the kind of board which you can entrust the stewardship of your Company.

Board composition

As you will have noted, several distinguished Board members reached the end of their terms in the year. Sir Peter Gershon, previous Board Chair until I assumed the role when he stepped down on 31 May 2021, is a distinguished businessman and advisor to government, known for his laser-like focus on productivity and performance. Dr. Paul Golby, a member of the Royal Academy of Engineering, has deep, relevant experience across the power sector, and contributed immeasurably to all the technical and strategy decisions the Company has made during his tenure. Mark Williamson, with a long career in finance, has wisely counselled on our financial and controls framework, as well as being the trusted Senior Independent Director, and Nicola Shaw, a key member of the management team in the role as UK Executive Director since 2016. All four retired from the Board in 2021. Jonathan Dawson, who will leave the Board at the AGM, has been the independent voice for the alignment of strategy and reward. In addition, Amanda Mesler, who has been a member of our Board for the last four years, has decided not to stand for re-election. Amanda was a great supporter of the investments in technology that have proved invaluable over these last several years. On behalf of my Board colleagues, I express my appreciation to all of them.

Nevertheless, from this loss comes opportunity. We have been fortunate to have recruited five new directors who bring fresh perspectives and diverse experience to the Board. Ian Livingston, former Chief Executive of BT, comes with the battle scars of industry transformation and expertise in finance. Tony Wood, a sitting CEO and a member of the Royal Academy of Aeronautical Engineering, brings the perspective that safety, productivity and innovation are not to be traded off, but must be driven apace in lock-step. Martha Wyrsh has worked directly in the energy sector in all its aspects – power, natural gas, and renewables, regulated and unregulated. She brings wisdom and practical advice to the boardroom.

Anne Robinson, an active executive in one of the largest asset management companies in the world, has substantial business and transactional experience and, in her current role, the most relevant background in ESG that we could imagine. Iain Mackay, who is joining the Board upon election at this AGM, is a sitting CFO with experience in industry prior to joining the fast-paced world of pharmaceuticals. These new Directors, along with those who continue to serve, bring strategic thoughtfulness, engagement, constructive challenge, independence and gravitas to our deliberations. As a group, they demonstrate our continued commitment to diversity on our Board and within National Grid's organisation overall.

Stakeholder engagement

Whilst virtual engagement has become the norm over the past two years, it has been a great pleasure to resume in-person engagement in recent months. One can get an authentic sense of what is going on within an organisation or with society at large by meeting people, listening to how individuals and groups have fared, and seeing first-hand the challenges on the ground. In recent months, Board members have undertaken site visits. We have also had virtual and in-person engagement sessions throughout the year with employees. Page 96 provides more detail.

Annual General Meeting

Last year I was one of the many individuals affected by COVID-19 travel restrictions and was unable to participate in the 2021 AGM in person. Given the situation at the time, we did not encourage attendance by any shareholder. For our 2022 meeting, we revert to business as usual but with another option. I'm pleased to share that we are offering the opportunity for you to participate in a 'hybrid AGM'. You will be able to participate in live voting and the Q&A session, as if you were in the room. Please note, too, that we are putting to vote for the first time our Climate Transition Plan this year. The discussion of this resolution should illuminate National Grid's resolve to move to net zero and to provide metrics by which we can all track progress. Further details on this are outlined in the Notice of Meeting for the AGM and on the Company's website.

Looking forward

Your Board will continue to focus on the key issues, challenge the Group's leadership, and collectively seek to make wise decisions. In an ever-changing world, we pledge to you that whatever lies ahead, we have the best interests of your Company, its customers, and its people central to our deliberations.

Paula Rosput Reynolds

Paula Rosput Reynolds
Chair

Our Board



Paula Rosput Reynolds (65)
Chair

Appointed: 1 January 2021 as Chair Designate and Chair with effect from 31 May 2021

Tenure: 1 year

Skills and competencies: Paula's strong business acumen is shown by her impressive track record of leading complex international businesses. In her board and leadership roles, Paula has demonstrated her decisive and pioneering nature, which will be crucial in moving National Grid's vision forward, as it embarks on its journey to enable the clean-energy transition and net zero by 2050. Her knowledge of the energy market and experience supporting organisations through transitional periods is an asset to the Board, as National Grid continues to grow and embrace opportunities. Paula is Chair of the People & Governance Committee and the high-calibre appointments made under Paula's leadership in the last year are pivotal in ensuring the succession and composition of the Board matches the culture, strategy and leadership needs of the Company. These skills combined with her insight into strategic and regulatory issues support her in leading and governing an effective board.

External appointments:

- Senior Independent Director and Chair of the Remuneration Committee at BP p.l.c.
- Non-executive Director of General Electric
- President and CEO of PreferWest LLC
- Member of UK Prime Minister's Business Council



John Pettigrew FEI FIET (53)
Chief Executive

Appointed: 1 April 2014 and Chief Executive with effect from 1 April 2016

Tenure: 8 years

Skills and competencies: John joined the Group as a graduate in 1991, progressing through many senior management roles and demonstrating a strong track record of developing and implementing global strategies for profitable growth. John contributes widely into external industry discussions shaping energy policy and brings significant know-how and commerciality to his leadership of the executive team and management of the Group's businesses.

John continues to lead the implementation of the Group's strategy. This year he progressed the Company's strategic pivot, including the integration of WPD and the successful sale of a majority stake in our UK Gas Transmission business. He also led the Company's Principal Partnership of COP26 in Glasgow.

External appointments:

- Non-executive Director and Senior Independent Director of Rentokil Initial plc
- Member of the UK Government's Inclusive Economy Partnership
- Member of the Electric Power Research Institute Board
- Member of the CBI's President's Committee
- Member of the Edison Electric Institute Executive Committee



Jonathan Dawson (70)
Non-executive Director;
Independent

Appointed: 4 March 2013

Tenure: 9 years

Skills and competencies: Jonathan, through his broad range of expertise within the finance and pensions sector, brings significant in-depth understanding in remuneration and financial matters to the Group. Jonathan previously held positions as Chairman of the Remuneration Committee and Senior Independent Director of Next plc and Chairman of the Audit & Risk Committee and Senior Independent Director at Jardine Lloyd Thompson Group plc.

As a Non-executive Director, Jonathan brings an innovative perspective, scrutiny, constructive challenge and independent oversight to the Board.

External appointments:

- Chairman of River and Mercantile Group plc
- Chairman and a founding partner of Penfida Ltd



Thérèse Esperdy (61)
Non-executive Director and
Senior Independent Director;
Independent

Appointed: 18 March 2014

Tenure: 8 years

Skills and competencies: Thérèse has significant international investment banking experience, having held a variety of leadership roles spanning 27 years. Her career began at Lehman Brothers and in 1997 she joined Chase Securities and subsequently JPMorgan Chase & Co, where she held a number of senior positions. With a distinguished career in the investment banking sector, Thérèse brings significant banking, strategic and international financial management expertise and knowledge of financial markets to the Board and to her role as Chair of the Finance Committee.

Thérèse's specialist knowledge combined with her sharp and incisive thinking enables her to contribute to, and constructively challenge on, a wide range of Board debates.

External appointments:

- Chair of Imperial Brands PLC
- Non-executive Director of Moody's Corporation

Group General Counsel & Company Secretary



Justine Campbell (51)
Group General Counsel &
Company Secretary

Appointed: 1 January 2021

Tenure: 1 year

Skills and competencies: Justine trained and qualified as a lawyer at Freshfields in London and Brussels. She has held senior executive positions at several multi-national companies and is an experienced lawyer with particular expertise in regulated sectors.

She is responsible for safety, legal, risk, compliance and governance activities across the Group, the effective operating of National Grid plc's Board and Committees and advising on key issues of corporate governance.

External appointment:

- Member of the GC100 Group Executive Committee



Andy Agg (52)
Chief Financial Officer (CFO)

Appointed: 1 January 2019

Tenure: 3 years

Skills and competencies: Andy trained and qualified as a chartered accountant with PwC and is a member of the ICAEW. He has significant financial experience, having held a number of senior finance leadership roles across the Group, including Group Financial Controller, UK CFO and Group Tax and Treasury Director. Andy brings in-depth knowledge of National Grid, in both the UK and the US, and has broad experience across operational and corporate finance roles. He contributes broadly on a wide range of topics at Board, Finance and Audit & Risk Committee meetings and has been instrumental in achieving the successful sale of a majority stake in our UK Gas Transmission business during the year.

External appointments:

- Member of The 100 Group Main Committee and Chair of the Tax Committee



Liz Hewitt (65)
Non-executive Director;
Independent

Appointed: 1 January 2020

Tenure: 2 years

Skills and competencies: Liz qualified as a chartered accountant with Arthur Andersen & Co. In her executive career she worked in private equity for 3i Group plc, Gartmore Investment Management Limited and Citicorp Venture Capital Ltd gaining insights into a wide variety of industries. Her work at Smith & Nephew gave her global insight. She was seconded for a year to HM Government. Liz has extensive experience as an audit committee chair and as a member of nominations and remuneration committees. She is considered to be a financial expert in the context of audit committee work. Her broad industrial and global experience and her financial knowledge bring a wide perspective to her role as Chair of the Audit & Risk Committee and in Board discussions and decision-making.

External appointments:

- Director of Silverwood Property Limited
- Non-executive Director of St George's Fields Limited; and of St George's Fields No.2 Limited



Ian Livingston (57)
Non-executive Director;
Independent

Appointed: 1 August 2021

Tenure: Less than 1 year

Skills and competencies: Ian is a chartered accountant who qualified with Arthur Andersen & Co and went on to become the youngest FTSE 100 CFO when appointed to the Dixons Group plc Board. Ian brings a wealth of experience to National Grid, having held both CFO and CEO positions in large, high-profile public companies operating in the UK and internationally. He has extensive experience of operating in a regulatory environment and is widely regarded in both the corporate and financial world for his record of consistently achieving enhanced shareholder value. Ian is Chair of the Remuneration Committee, where he brings significant experience and broad business perspective to discussions. He has a variety of non-commercial interests and involvement with a number of charities in education and social care.

External appointments:

- Chair of Currys plc (until 8 September 2022)
- Non-executive Director of S&P Global



Amanda Mesler (58)
Non-executive Director;
Independent

Appointed: 17 May 2018

Tenure: 4 years

Skills and competencies: Amanda brings to the Group extensive international leadership and general management experience from the technology and fintech sectors. She has over 27 years of experience at senior management and board level at large international companies. She led a \$1 billion global practice at Electronic Data Services and has experience sitting on audit, risk and remuneration committees. Amanda provides an entrepreneurial perspective to the Board and valuable insight into the Company's increasingly important technical evolution.

External appointments:

- Non-executive Director of Amadeus IT Group S.A.
- Chair of Minna Technologies
- Advisor to Macquarie Capital



Anne Robinson (51)
Non-executive Director;
Independent

Appointed: 19 January 2022

Tenure: Less than 1 year

Skills and competencies: Anne has over 20 years of legal experience in the financial services industry, where she has counselled senior executives on a wide range of legal, regulatory and business issues. Anne has worked throughout her career to champion diversity, equity and inclusion whilst being a strong advocate for sponsorship and mentorship of other women in the legal profession. Anne brings to the Board expansive and varied legal experience in the financial services and consulting fields as well as experience of working closely with boards and investors on a broad range of ESG issues. Anne earned a BS from Hampton University and a JD from Columbia University Law School.

External appointments:

- Managing Director, General Counsel, and Corporate Secretary of Vanguard
- Director of Minority Corporate Counsel Association
- Director of Children's Rights
- Millstein Center Advisory Board at Columbia Law School



Earl Shipp (64)
Non-executive Director;
Independent

Appointed: 1 January 2019

Tenure: 3 years

Skills and competencies: With an extensive career in the chemicals industry and having held a senior leadership role in a safety-critical process environment, Earl brings significant safety, project management, environmental, sustainability and strategic expertise to the Board and its Committees, particularly in relation to safety management. This, along with his innovative way of thinking, enables Earl to contribute on a wide range of issues to Board and Committee debates and to effectively chair the Safety & Sustainability Committee.

External appointments:

- Non-executive Director of Olin Corporation
- Non-executive Director of Great Lakes Dredge and Dock Co.

Key

- A** Audit & Risk Committee
- F** Finance Committee
- P** People & Governance Committee
- R** Remuneration Committee
- S** Safety & Sustainability Committee
- E** Group Executive Committee
- ◆** Committee Chair

Other changes during the year:

Sir Peter Gershon, Paul Golby and Mark Williamson stepped down as Non-executive Directors on 31 May 2021, 26 July 2021 and 31 December 2021 respectively.

Nicola Shaw stepped down as Executive Director on 26 July 2021.

Biographies as at 18 May 2022



Jonathan Silver (64)
Non-executive Director;
Independent

Appointed: 16 May 2019

Tenure: 3 years

Skills and competencies: Jonathan has considerable knowledge of the US-regulated energy environment, experience and understanding of integrating public policy and technology into a utility as well as a strong background in finance. Previously, Jonathan was the head of the US government's \$40 billion clean energy investment fund. Jonathan's strong background in finance and government policy along with his long career at the intersection of policy, technology, finance, and energy brings innovative and positive insight to the Board's policy discussions and to its interaction with management.

External appointments:

- Independent Director of EG Acquisition Corp.
- Senior Advisor to Guggenheim Partners
- Director of Plug Power Inc.
- Director of Intellihot Inc.



Tony Wood (56)
Non-executive Director;
Independent

Appointed: 1 September 2021

Tenure: Less than 1 year

Skills and competencies: Tony has proven business leadership credentials as an experienced CEO, and brings to the Board significant engineering experience. He is currently CEO of Meggitt plc and has led the operational and cultural transformation of the company, transitioning from an industrial holding structure to a focused and customer-led business, leveraging technology investment.

Tony also held the position of President of the aerospace division at Rolls-Royce, during which time he developed a strong reputation as an operator, turning around and growing several challenging business units and internationalising the company's footprint.

External appointments:

- CEO of Meggitt PLC
- Director of ADS Group Limited



Martha Wyrsh (64)
Non-executive Director;
Independent

Appointed: 1 September 2021

Tenure: Less than 1 year

Skills and competencies: Martha has held a number of senior positions in the energy industry and has significant experience of the US market, having been a Fortune 100 General Counsel and CEO of a major international gas-transmission business, as well as leading the growth and development of Vestas' renewables business in the US.

As an accomplished director for publicly listed companies, in both the UK and the US, Martha brings to the Board relevant experience across the renewable energy sector, as well as a strong understanding of the US regulatory environment, bringing enriching discussion and strategic thought to the Board.

External appointments:

- Independent Director of Quanta Services, Inc.
- Independent Director of First American Financial Corp.
- Advisor to Summit Carbon Solutions

Governance refresh

We reviewed our governance framework during the year to more closely align with National Grid's purpose, vision and values following the strategic repositioning of the Company's portfolio, the continued refreshment of the Board and to better facilitate us to progress our sustainability and climate change agenda. All Committee changes were effective 1 September 2021.

Committees:

The **Safety & Sustainability Committee** (previously the Safety, Environment & Health Committee) expanded its remit to increase focus on sustainability strategy and related external disclosures. This allows the Committee to have the in-depth discussions required on these topics with Board members best placed to provide insight and overview, enabling the Committee to review specific safety- and sustainability- related risks and providing a greater oversight of related Group Principal Risks. The Committee report is on page 106.

The **Audit & Risk Committee** (previously the Audit Committee) repositioned to give a greater focus to risk with increased time now spent reviewing principal, emerging and child risks in relation to the Company's risk management and controls processes. The Committee report is on page 101.

The **People & Governance Committee** (previously the Nominations Committee) expanded its remit to focus further on wider succession within the organisation as well as core governance issues such as the workforce engagement programme for the year. The Committee report is on page 99.

All Committee compositions were reviewed and revised to ensure a suitable spread of skills and experience that complement the revised remit of our Committees, details of which can be found in each Committee report.

Governance processes: our review extended to refreshing the Board Governance document to ensure this reflected the wider Committee remits and clear Chair and CEO roles. We moved from eight scheduled Board meetings annually to six meetings made possible through reviewing our cadence of reporting and Board pack materials with an efficiency programme introduced to ensure that reporting is as effective and concise as possible. This allows greater time at Board meetings to focus on goals, priorities and strategic topics, enabling quality discussion to deliver our strategy. The Board will continue to review its framework annually to satisfy itself that it continues to be best aligned to the Company's purpose and strategy.

Group Executive Committee: supports the CEO's decision making. To do this, the roles of the overall Committee and supporting sub-committees were refreshed to provide a more optimal way to communicate and understand key business information – specifically, having the right people discussing the most relevant topics in the sub-committees, enabling better decision making at the top of the organisation.

Board composition and roles

Our Board comprises of a Non-executive Chair (independent on appointment), two Executive Directors (CEO and CFO), and 10 independent Non-executive Directors, as at the date of this report. There is a clear division of responsibilities between the Chair and CEO, reflected in the Board Governance document available on our website. A list of our Directors' biographies can be found on pages 88 and 89.

Our Chair sets Board meeting agendas and ensures the Board receives accurate, timely and clear information to monitor, challenge, guide and take sound decisions. She is responsible for promoting a culture of open debate between Executive and Non-executive Directors. Our Chair also facilitates effective communication with shareholders and other stakeholders and promotes high standards of corporate governance, ensuring Directors understand the views of the Company's shareholders and other key stakeholders, and their duties under section 172 of the Companies Act.

Our Chief Executive is responsible for the executive leadership and day-to-day management of the Company, to ensure the delivery of the strategy agreed by the Board.

Our Chief Financial Officer is responsible for providing strategic financial leadership to the Company and for the day-to-day management of the finance function.

Our independent Non-executive Directors are responsible for contributing sound judgement and objectivity to Board deliberations and the overall decision-making process, providing constructive challenge, and monitoring the Executive Directors' delivery of the strategy within the Board's risk and governance structure.

Our Senior Independent Director provides a sounding board for the Chair and serves as a trusted intermediary for the other Directors, as well as shareholders, as required. She meets with the Non-executive Directors (without the Chair present) when necessary and at least once a year to appraise the Chair's performance and communicates the results to the Chair and People & Governance Committee.

Our Group General Counsel & Company Secretary has responsibility for ensuring the effectiveness of the Company's governance framework. All Directors have access to her advice.

Independence and time commitment

We monitor and note potential conflicts of interest that each Director may have and recommend to the Board whether these should be authorised and if any conditions should be attached to such authorisations. Directors are reminded regularly of their continuing obligations in relation to conflicts and review and confirm their external interests at least annually. This is then used to consider whether each Director continues to be independent. Following due consideration, the Board determined that all Non-executive Directors continued to be effective and independent in both character and judgement in their roles. The table below sets out Director attendance at Board meetings during the year to 31 March 2022.

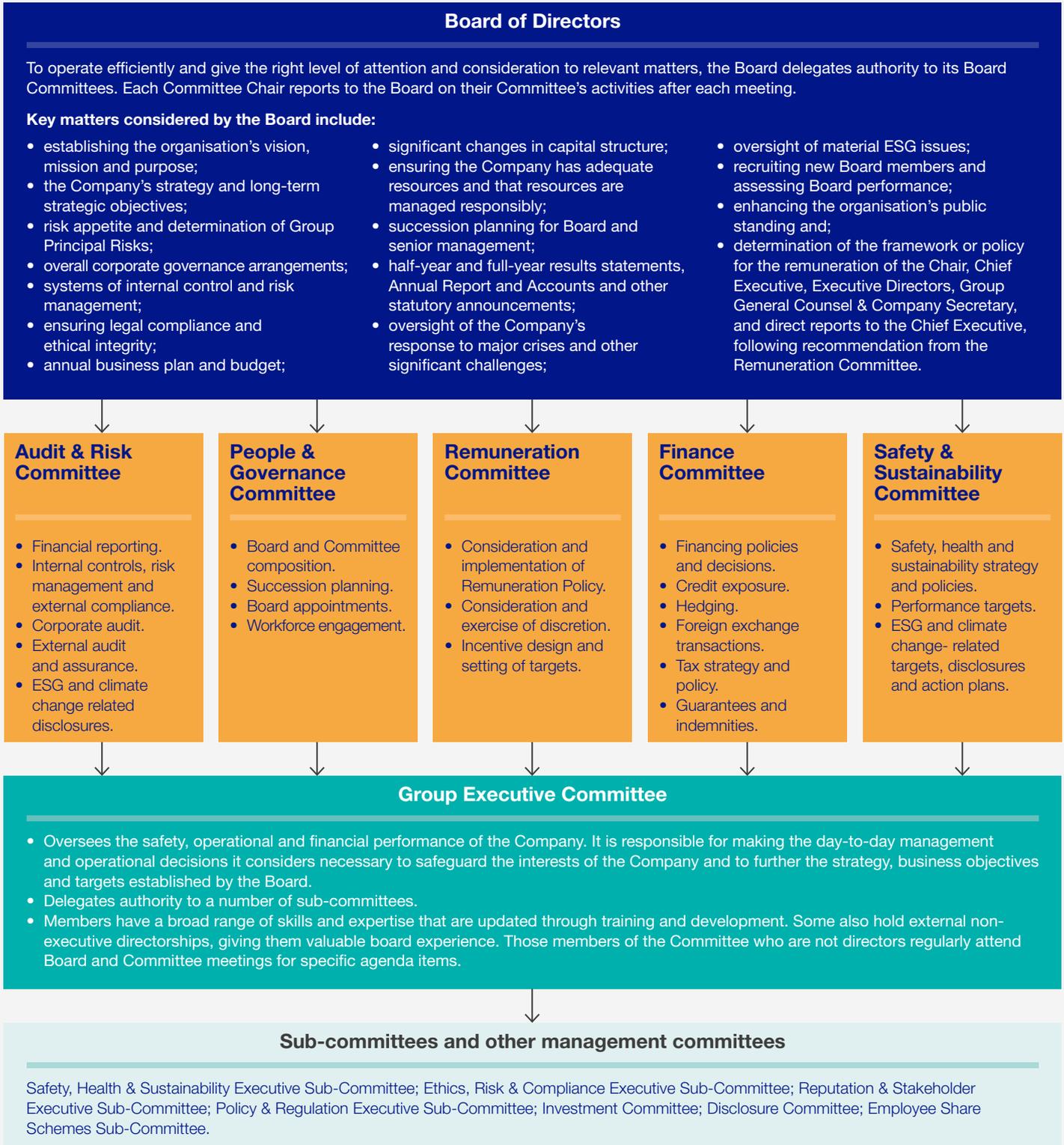
Director	Attendance	Director	Attendance	Director	Attendance
Paula Rosput Reynolds ◆	10/10	Ian Livingston	5/5 ²	Martha Wyrsh	4/4 ²
John Pettigrew	10/10	Amanda Mesler	10/10	Former Director	
Andy Agg	10/10	Anne Robinson	2/2 ²	Sir Peter Gershon	2/2 ³
Jonathan Dawson	10/10	Earl Shipp	9/10 ¹	Nicola Shaw	4/4 ³
Thérèse Esperdy	10/10	Jonathan Silver	9/10 ¹	Paul Golby	4/4 ³
Liz Hewitt	9/10 ¹	Tony Wood	4/4 ²	Mark Williamson	8/8 ³

◆ Board Chair

- The Directors noted were unable to join due to conflicting commitments. The meetings in question were ad hoc and scheduled at short notice. Where possible, all Board members who were unable to attend a meeting provided comments to the Chair in advance of the meeting.
- The Directors noted were appointed during the year and the attendance is based on available meetings from appointment.
- The Directors noted resigned during the year and the attendance is based on available meetings before resignation.

How the Board operates

Board and Committees



Our Group Executive Committee

Two Executive Directors are members of the Group Executive Committee, as well as being on the Board. The Group General Counsel & Company Secretary is also a member of the Group Executive Committee. See their biographies on page 88 – 89.

Full biographies for the Group Executive Committee are available at: nationalgrid.com

Governance structure

The schedule of matters reserved for the Board and terms of reference for each Board Committee are available in our Board Governance Document at: nationalgrid.com



Reports from each of the Board Committees, together with details of their activities, are set out on pages 99 – 131.

Corporate Governance overview continued

Board focus during the year

Our Board is collectively responsible for the effective oversight of the Company and its businesses. It determines the Company's strategic direction and objectives, business plan, dividend policy, viability and governance structure to help achieve long-term success and deliver sustainable shareholder value. The Board also plays a major role in setting and leading the Company's culture and wider sustainability goals. It considers key stakeholders in its decision making and, in doing so, ensures that Directors comply with their duty under section 172 of the Companies Act 2006.

Our stakeholders considered in Board discussions



Colleagues



Investors



Regulators



Communities



Customers



Suppliers

Key matters considered	Outcome
Strategy	
<p>Oversight and execution of several major strategic transactions</p>	<p>Following the strategic pivot in the UK portfolio towards electricity with last year's acquisition of WPD and the proposed sale of NECO and a majority stake in UK Gas Transmission, it was paramount that the Company continue to execute the current strategic pivot and transactions successfully.</p> <p>The Board maintained oversight of the transactions at every meeting and was updated on the progress of the integration of WPD into the Group and status of the NECO and UK Gas Transmission sales including key challenges and risks.</p> <p>In March 2022, the Board approved the delegation to a sub-committee to approve the transaction for the sale of a majority interest in UK Gas Transmission and our Metering business to a consortium comprised of Macquarie Asset Management and British Columbia Investment Management Corporation.</p> <p>In March 2022, the Board also approved the sale of National Grid's interest in St William Homes LLP, to its joint venture partner, The Berkeley Group plc.</p>
<p>Strategic priorities and Board performance</p>	<p>With the addition of new Board members and the dynamic external environment, the Board established an agenda to review each business unit to understand its current performance, regulatory structure, financial framework, culture and our future strategy. The Board deliberated how to spend its time throughout the year by identifying key areas for strategic discussion. The Board set goals for itself to ensure clarity of direction at every meeting.</p> <p>External insights were also provided throughout the year:</p> <ul style="list-style-type: none"> the Board heard from an expert in UK energy policy and discussed the challenges of the energy transition; the Chief Economist at bp plc provided energy forecasts and insights on the energy transition; and the CEO of Tennet (a leading European electricity transmission system operator) gave perspectives on the opportunities associated with developing offshore transmission in the UK and North West Europe. <p>The Board also met with the New York Independent System Operator, the Chair and CEO of Ofgem, and the representatives of the business community in New York to discuss key issues, challenges and to hear their perspectives. The Board were also briefed by brokers in the year.</p>
<p>Our commitment to reach net zero</p>	<p>In the year, the Board discussed ESG matters, including key strategic enhancements to keep pace with stakeholder expectations and to be aligned with commitments as a responsible business. The Safety & Sustainability Committee and the Audit & Risk Committee reviewed climate change reporting disclosures, within their respective remits. The Board approved the Climate Transition Plan in May 2022 – ahead of the 2022 AGM. See the Remuneration Committee report on how we have linked ESG to Director remuneration at page 108.</p>
<p>Enrichment sessions</p>	<p>Outside of Board meetings, Directors joined additional sessions with our Strategy team to learn more on emerging topics including heat pump technology, CCUS and prospects for hydrogen. The Board also met out of cycle in April 2022 for a focused session looking at the disclosures required by the Company in relation to ESG. The Board also received a briefing on key energy policy announcements and energy security decisions being made in the UK.</p>

Key matters considered	Outcome
Business Plan and financial performance	
Aligning the Strategic Business Plan and budget to the strategy	In the year, the Board discussed and approved the Strategic Business Plan, to promote alignment of financial performance and strategy. It further reviewed a five-year view of the Group which incorporated portfolio changes. In June 2021, the Board received the budget revision, reflecting the impact of portfolio changes and the changes to the operating model on the Group's targets.
Dividend	Since approval in January 2021, it was agreed that from FY21/22 the Company would seek to grow the dividend in line with CPIH, reflecting a move from RPI to CPIH in the UK regulated businesses. The Board considered the dividend policy at its November 2021 and May 2022 meetings and approved the proposed interim and final dividend payments.
RIIO-T2 financial structure	<p>During the year, the Board reviewed the RIIO-T2 framework and how the Company will align its approach to operations given the change in regulatory incentives.</p> <p>Following the acquisition of WPD, the Board discussed and approved the RIIO-ED2 business plan for submission in December 2021 and received updates on the ongoing process.</p>
Political and regulatory environment	
Impacts on the UK energy market	Throughout the year, the Board was updated on the disruption in the UK market as retail suppliers began to fail and how National Grid was responding. In early 2022, the Board was briefed on how the crisis in Ukraine could potentially affect the UK and the wider energy environment. As the conflict continued, the Board continued to be briefed on the significant impacts on the UK energy market, including the high and volatile prices, impact on consumers and direct impacts on the Company. The Board continued to have oversight of the impact on affordability and UK Security of Supply, cyber security and potential cost recovery.
UK RIIO-T2 price control	During the year, regular updates were provided on the RIIO-T2 price control appeal process and the holistic five-year strategy to deliver RIIO-T2 in ET. Early in the year, the Board challenged the Company's response to the provisional determinations and following the submission of a technical appeal to the Competition and Markets Authority (CMA) around the RIIO-T2 cost of equity and outperformance wedge; the CMA found in favour of our arguments on the outperformance wedge.
US	<p>The Board reviewed the current US regulatory structure, including the current regulatory and financial frameworks in place and core components of the US regulatory framework and the performance profile of the US business.</p> <p>Twice in 2021, the Board met with the Monitor who was overseeing gas capacity planning for New York. The Board reviewed the Long Term Capacity Report; the Company is compliant with the terms of settlement. The Board discussed the stakeholder engagement plan and key challenges and risks going forward.</p> <p>The Board noted the rate case agreements that had been completed for KEDNY, KEDLI and NMPC, and noted the filing of a plan with the Massachusetts Department of Public Utilities.</p>

Key matters considered

Outcome

People and culture

Evolution of the Group culture of accountability, agility and performance

The Board is responsible for monitoring and assessing both the culture of the Group and its alignment with the Company's purpose, values and strategy. These elements are vital to our long-term success as a Company, as the availability of resources and operating procedures require Board engagement inside and outside of the boardroom. You can read more about how the Board monitors culture on page 95.

Risk

Review and approval of Group Principal Risks and emerging risks

During the year, the Board completed a review of the Company's risk appetite, principal risks and emerging risks and how we manage them. It was agreed to retire the disruptive forces risk and de-escalate the data management risk. In May 2022, the Board reviewed and approved the effectiveness of the Group's risk management system, following updates in the year from the Audit & Risk Committee and the Safety & Sustainability Committee on focused risks within their remit. You can read more about our risks on pages 28 – 32.

Governance

Refreshing our governance framework

With so much change within the business and the rapidly changing external landscape, the Board reviewed the entire governance framework to ensure it remained fit for purpose. Committee composition and remit were refreshed and refined.

You can read more about this on page 90.

Looking forward:

The Board will continue its focus on the strategic priorities, including monitoring the actions, milestones and timelines to deliver the strategy. We will continue using enrichment sessions outside of the regularly scheduled Board meetings to deepen the Board's working knowledge on selected topics. All Board members will also continue to undertake site visits to see the work of National Grid for themselves.

How the Board monitors culture

The Board plays a significant role in monitoring and assessing both the culture of the Group and its alignment with the Company's purpose, values and strategy.

The People & Governance Committee also plays a key role in keeping momentum in relation to management development and succession. This year, focus has been on executive development in particular. Although not all Board members sit on the People & Governance Committee, they have access to all Committee papers and regularly attend the People & Governance Committee meetings. The Chair reports back to the full Board following each meeting, which also provides the opportunity for full Board input and to ensure it is monitoring culture effectively.

There has been a vast amount of change both within the organisation and externally over the last few years. The importance of creating the right culture throughout the Company, to ensure our colleagues are embracing positive and inclusive behaviours and values in everything we do, has never been more important.

The Board assesses the Company's culture and the progress being made from two key data sources:

- lagging indicators from the Grid:voice survey and the Spencer Stuart culture diagnostic; and
- leading indicators taken from the culture change activity underway across the organisation.

The full Board joined the People & Governance Committee to discuss with Spencer Stuart matters including the context, backgrounds and updates to the work that the Company had been undertaking to identify and cultivate senior talent. The full Board reviewed the assessments undertaken against the methodology used to assess the talent pipelines.

Grid:voice employee survey

Our Grid:voice survey this year provided a set of strong results, with improvements in a number of areas including the 'Safe to Say' scores, which are six points higher than the high performing norm. This has demonstrated that there is an open culture within the organisation where individuals feel that they are able to express their views, opinions and concerns. The Board also monitors areas that are not as strong performing as others and tracks progress. Consideration in the year was also given to WPD's results, the first year that these had been included. There is focus required in this area to work to align the results with the rest of the organisation and the Board will monitor to ensure progress is achieved.

The biggest impact on colleague engagement and culture is line managers and the tone that is set from the top of the organisation. Recognising this, the Company's 'leadership index' sets expectations for leadership behaviour, and provides actionable insight for leaders to focus development that has a positive impact on their immediate team. 2022 was the third full 'leadership index' that has been created and demonstrated positive progress with a reduction in the number of leaders scoring below our target levels. This has highlighted the positive and significant impact our individual leaders across the organisation can have on their own behaviour.

Culture diagnostic

The culture diagnostic work has shown a clear shift towards our desired culture and in particular indicated that the characteristic of 'Caution' had moved downwards and 'Purpose' had moved upwards, demonstrating a significant step forward over the last 12 months. The strongest culture traits for the Group are now 'Purpose', 'Caring' and 'Order'.

Leading indicators of change

In addition to the quantitative data, the Board also monitors leading indicators of change. Throughout the year this has been through the results of the organisation's 'Living our Values Everyday' campaign, 'Untapped AI' personal development coaching activity and through the 'Team Effectiveness' facilitation programme.

Looking forward

Our culture diagnostic work will continue to progress with the next goal in this area to move the characteristics of 'Results' further up and move 'Order' down. The challenge will be to maintain the changes made around 'Purpose' and 'Caution', whilst focusing organisation-wide and everyday action change on becoming more 'Customer' and 'Performance' orientated. The Board will continue to spend considerable time on culture and monitor the progress in this area.

One of the Board's goals for 2022/23 is to ensure laser-like focus is on management succession, including a focus on continuous culture improvement.



For further information on culture, please see page 65.



Members of the Board visited the IFA interconnector site at Sellindge in March 2022. Following a catastrophic fire at the site in September 2021, the Board and Committees have had oversight of the investigation into the root cause. The site visit consisted of a tour of the facility and an overview of the damage and repairs. It also provided the opportunity for Board members to hear directly from employees and contractors on site.

Board engagement

Engagement is key to the Group's long-term success and the Board directly and indirectly engages with key stakeholders, ensuring it understands their interests and takes them into account in Board decision making. You can read the Board's section 172(1) statement on page 56.

Workforce engagement

Throughout the year we continued with our 'Full Board Employee Voice' approach, utilising and enhancing existing colleague engagement methods and communication channels to ensure meaningful engagement across all locations. The programme, overseen by the People & Governance Committee, monitors the effectiveness of the programme and reviews the chosen mechanism under the Code at least annually. The variety of engagement is a great way of building and maintaining trust and communication whilst providing our people with an appropriate forum to influence change.

In the year we shared a selection of short videos of our new Non-executive Directors with our colleagues to help familiarise them with their Board.

Board engagement programme

Small sessions These sessions make up the majority of the Board engagement programme in the year. They consist of around 10 individuals in attendance and a different subset of Board members. Attendees are coordinated by HR and are diverse across our workforce. Some of the sessions are open discussion with no set agenda whilst others have recommended topics; for example, in May 2022, our employees discussed our Climate Transition Plan and the new Remuneration Policy ahead of these going to the AGM for shareholder vote.

Employee Resource Groups (ERG) and high-potential employees

The Chair met with multiple ERG leads and participated in a 'learning from leaders' session with the 'Women in National Grid' (WING) ERG. Our high-potential employees also had the opportunity to meet with the Board and share their views. This was a great opportunity for the Board to meet our high-potential employees informally and reconfirmed the need to actively support their career development, a topic very much on the People & Governance Committee's agenda for the year ahead.

Virtual 'town hall' Our Chair and CEO hosted a virtual town hall in January 2022 with a cross-section of the US workforce. Discussions included community engagement, diversity and inclusion, the clean energy transition and gas supply. This was one of the first opportunities for some of our colleagues to meet our Chair since she had been in role.

Committee focused These included an Audit & Risk Committee virtual session in January 2022 with US finance colleagues and a Finance Committee discussion with colleagues from the Pension, Tax, Financial Planning and Treasury teams in July 2021.

Engineering dinner Earl Shipp and Tony Wood attended a dinner in March 2022 to recognise engineers involved in world-leading Energy Transition projects including T-Pylons, the UK's new nuclear power station and the Storm Eunice response. The event provided the opportunity for individuals to discuss a range of topics including SF₆, engineering capability and the strategic direction taken by the Board.

Site visits It was really positive for Directors to be able to get back out on site following the COVID-19 pandemic, and this year saw optional visits scheduled around Board meetings. These vital engagement forums provided the opportunity for smaller groups of the Board to hear views from and see the workforce in action and included the IFA interconnector at Sellindge, the London Power Tunnels and WPD's control centre.

Feedback and decision making

Following all engagement, the Board takes the time to discuss the views of the workforce and takes these into consideration throughout wider Board discussions, a topic on each Board agenda going forward. Following feedback in the external Board evaluation this year, a set of 'ground rules' were re-established by the Board to increase transparency around engagement and to ensure that following any non-scheduled engagement events, views heard are captured and reported back to the boardroom or the CEO/CFO, where appropriate.

Looking ahead

The People & Governance Committee reviewed the engagement mechanism at its March 2022 meeting and agreed that the current approach remained the most appropriate mechanism. The variety of sessions provides a valuable link between our colleagues and the Directors, and we look forward to hearing more from our employees this year. As the world and priorities continue to evolve, we will continue to keep the overall approach under review and updated and refined as required.

Shareholder engagement

The Board is committed to maintaining good communications with existing and potential shareholders. The Company has a comprehensive investor relations programme where a range of key investors are met with in person or virtually at small meetings and larger investor roadshow events. The Board Chair also engages with large shareholders and the Remuneration Committee Chair engages specifically on remuneration practices.

Management also hosts webcasts for both our half-year and full-year results and takes questions from investors and analysts to ensure an open dialogue with the market. Presentations given to analysts and investors covering the Group's results, along with all results and other regulatory announcements as well as further information for investors, are included on the investor relations section of our website at nationalgrid.com/investors.

Further information on our engagement with our retail shareholders is set out on page 97 under Annual and General Meetings of shareholders.

Capital Markets Day In November 2021 we hosted our first Capital Markets Day. This was a hybrid event giving investors the opportunity to engage online or in person with key members of the Group Executive Committee and National Grid leaders. As part of this, we held a number of 'teach in' sessions to support investors' knowledge of our business units and key strategy areas for the Group. The Capital Markets Day videos are on our website at nationalgrid.com/investors.

'Grid Guide to...' Throughout the year our investor series continued. The series consists of short, virtual sessions covering our ambitions and progress across a range of ESG themes. Some of the key sessions of the 2021/22 programme included:

- May 2021 – Grid Guide to... Our People;
- July 2021 – Grid Guide to... the Decarbonisation of Transport;
- October 2021 – Grid Guide to... the Future of Heat in downstate New York; and
- March 2022 – Grid Guide to... National Grid's Sustainable Supply Chain.

Annual and General Meetings of shareholders

In April 2021, we held a General Meeting to seek approval from our shareholders for the acquisition of WPD. We also announced our intention to sell a majority stake in UK Gas Transmission and the sale of NECO at this time. This meeting took place behind closed doors due to COVID-19 restrictions; however, shareholders were invited to submit questions in advance of the meeting and were answered in a shareholder webcast. In July 2021, our Annual General Meeting (AGM) took place in London. We also facilitated the ability for shareholders to view the meeting remotely, register and ask any questions both in person or virtually. Voting levels were largely consistent with previous years, despite the disruption caused by COVID-19 restrictions in place. All resolutions were passed at the meeting in line with the Board's recommendations.

The pandemic has clearly demonstrated the efficiency of virtual and hybrid meetings and allows for greater levels of engagement and participation by individuals. A resolution to amend our Articles of Association to allow for hybrid AGMs was approved in 2021. Our 2022 AGM in July will be conducted in the hybrid format.

The Notice convening the 2022 AGM will be made available to shareholders in advance of the meeting. This will provide shareholders with the appropriate time to consider matters. The results of the proxy votes on each resolution will be collated independently by the Company's registrar and will be published on the Company's website after the meeting.

Looking forward

We maintain a comprehensive investor relations programme throughout the year. Please visit our website to keep up to date as events are announced at nationalgrid.com/investors. Materials from recent seminars and access to our educational videos and podcasts can also be found online and on our social media channels.

Performance evaluation 2021/22 external Board evaluation

Our annual evaluation provides the Board and its Committees with an opportunity to consider and reflect on the quality and effectiveness of their decision making, and for each member to consider their own contribution and performance. In accordance with the Code, which outlines in the Provisions that the Company should undertake an externally facilitated evaluation every three years, the 2021/22 Board evaluation was conducted externally. In May 2021, National Grid engaged Independent Board Evaluation (IBE) to facilitate this year's Board evaluation.

Following initial briefings in October 2021, the evaluation began with Board and Committee observations in November 2021. This was supplemented with Director and management interviews. Results were fed back to the Chair in December 2021 and then presented to the Board in January 2022. The Board agreed the set of actions outlined below in March 2022.

National Grid confirms neither the principal consultant nor IBE has any connection with the Company, individual Directors nor the Company Secretary.

Findings of the Board evaluation

The Board has been through significant change over the past year, as noted in the evaluation. Findings of the evaluation take into account the appointment of a new Chair with effect from 31 May 2021 and a number of changes amongst the Non-executive Directors. The Board views these changes as positive. The review noted that National Grid is underpinned by robust governance and compliance. Succession planning, culture and strategy were identified as key areas of focus for the year ahead, with opportunity for Board materials to be further streamlined.

Board Committees' effectiveness

Each Board Committee was included as part of the evaluation and each Committee received a detailed report. IBE noted that the Committee structure had also been through a period of change, which has refocused the remit of each Committee. The Chair has engaged on feedback with each Committee Chair and, following the Board agreeing its action plan and goals in March 2022, each Committee will set an outline of key areas of focus for 2022/23.

Performance of the Chair

As part of IBE's evaluation, in line with the Code, each individual Director's effectiveness was evaluated, including our Chair's performance. Detailed feedback was shared directly with the Senior Independent Director, Thérèse Esperdy. An overview of the findings was shared during a private session between Thérèse and Paula. The Board recognised in its feedback that Paula had led the Board effectively during a period of significant change whilst outlining vital key strategic priorities for the business.

Focus area	Board actions for 2022/23
Strategy	<ul style="list-style-type: none"> Finalise Board strategic topics for 2022/23 and ensure agendas align.
Capability	<ul style="list-style-type: none"> Strengthen focus on talent and succession at all levels. Include regular reviews on People & Governance agendas and align with opportunities for the Board to meet high-potential employees.
Culture	<ul style="list-style-type: none"> Incorporate the results of the culture scorecard in People & Governance Committee deliberations.
Employee engagement	<ul style="list-style-type: none"> Review and refine the overall approach to employee engagement. Ensure key insights from engagement opportunities are shared with the Board.
Engagement with management	<ul style="list-style-type: none"> Ensure effective communication flows to provide the right insights, including early sight of emerging issues when required.
Process and meeting management	<ul style="list-style-type: none"> Continue to improve discipline around Board papers and processes. Routinely bring outside views into the boardroom.
ESG	<ul style="list-style-type: none"> Ensure that ESG commitments are embedded in the Board's stewardship.

Corporate Governance overview continued

Directors' induction, development and training

The Chair has overall responsibility for ensuring that our Non-executive Directors receive a comprehensive induction and suitable ongoing development and training. This is key to enabling Board effectiveness individually and as a whole. New directors receive comprehensive induction programmes and induction packs, tailored to their experience, background, committee membership and requirements of their role. They are encouraged to engage with the business by visiting key sites in the UK and US. As our internal and external business environment continues

to change, it is important to ensure that Directors' skills and knowledge are refreshed and updated regularly.

During the year, Non-executive Directors attended a detailed session on digital initiatives across the Group ahead of a digital discussion at the Board meeting. The Board also had the opportunity to attend a series of enrichment sessions; topics presented through the year included heat pumps, CCUS, hydrogen and ESG. Further enrichment sessions are scheduled for 2022/23 on topics such as energy market reform, customer disruption and offshore wind market operations and projects.

Ian Livingston



Significant focus was given to prepare Ian to step into the role of Chair of the Remuneration Committee from January 2022 alongside an introduction to the Group's Remuneration Policy. Ian also received an overview of the Group's strategy, key business operations and matters pertinent to the Audit & Risk Committee.

Martha Wyrsh



Martha joined as a member of the Safety & Sustainability Committee and Remuneration Committee. Focus was given to key safety, sustainability and remuneration-related matters. In September 2021, Martha visited National Grid's diversion site supporting HS2, gaining first-hand insight on the challenges the team faced during the project.

Anne Robinson



On appointment, Anne joined as a member of the Safety & Sustainability Committee. Focus was given to key safety and sustainability matters alongside an overview of the Group and current strategy. Anne will also join the Remuneration Committee in July 2022 and will be undertaking sessions on remuneration.

Tony Wood



Tony joined as a member of the Safety & Sustainability and People & Governance Committees. Focus was given to key matters in relation to safety and sustainability alongside an overview of the Group. As part of his induction, Tony visited two key UK sites, Isle of Grain and London Power Tunnels, in August 2021.

“As such a large cohort of Directors has joined the Board during the year, it's been crucial that we get them up to speed quickly. Our induction, development and training programme has been vital in supporting this.”

Paula Rosput Reynolds

Induction area	Provided by	Topics covered	Attended by
Governance and Director Duties	Chair of the Board Group General Counsel & Company Secretary Head of Company Secretariat External Legal Counsel	<ul style="list-style-type: none"> Priority areas for the Board Governance framework and corporate structure Overall legal matters Director duties for a listed company Market Abuse Regulations 	IL AR MW TW
Remuneration Committee	Chair of the Remuneration Committee Chief People & Culture Officer Group Head of Reward External remuneration consultant (PwC)	<ul style="list-style-type: none"> Priority areas for the Remuneration Committee including Committee Chair succession Remuneration Policy Remuneration matters 	IL MW
Audit & Risk Committee	Chair of the Audit & Risk Committee Chief Financial Officer Group Head of Audit Chief Risk Officer Group Financial Controller External auditor (Deloitte)	<ul style="list-style-type: none"> Priority areas for the Audit & Risk Committee Regulatory finance model Financial reporting framework Risk management framework and principal risks External audit including lead partner succession 	IL
Safety & Sustainability Committee	Group Head of Safety Group Chief Engineer	<ul style="list-style-type: none"> Priority areas for the Safety & Sustainability Committee National Grid's approach to safety and sustainability Engineering assurance Climate change and climate risk 	AR MW TW
Strategy	Chief Strategy & External Affairs Officer Chief Sustainability Officer	<ul style="list-style-type: none"> National Grid's strategy and transition to net zero COP26 	IL AR MW TW

People & Governance Committee report



Key decisions during the year

- Approved four Board appointments in the year
- Reviewed and approved Board and Committee composition and refreshment
- Reviewed and approved the Board Diversity Policy and progress against objectives
- Reviewed and approved the continuation of the Board 'workforce engagement' approach

Composition and Committee attendance:

The Committee is made up of four independent Non-executive Directors and the Chair of the Board.

Committee members	Attendance
Paula Rosput Reynolds ¹ ♦	4/4
Thérèse Esperdy ¹	4/4
Jonathan Silver ¹	4/4
Earl Shipp ¹	4/4
Tony Wood ³	3/3
Former Committee members	Attendance
Paul Golby ²	1/1
Liz Hewitt ²	1/1
Mark Williamson ²	1/1
Amanda Mesler ²	1/1
Jonathan Dawson ²	1/1

♦ Committee Chair

1. Member of the Nominations Committee until 1 September 2021 and became a member of the refreshed People & Governance Committee from this date.
2. Member of the Nominations Committee until 1 September 2021.
3. Became a member of the Committee on appointment to the Company on 1 September 2021.

Year in review

On appointment, I requested Justine Campbell, Group General Counsel & Company Secretary to undertake a full review of the appropriateness of the Board Committee structure, terms of reference for the respective committees and overall effectiveness. The outcome of that review was to update the remits of the various committees. Notably, the Safety, Environment and Health Committee was repurposed as the Safety & Sustainability Committee, the Audit Committee as the Audit & Risk Committee and the Nominations Committee was repurposed as the People & Governance Committee. All were with effect from 1 September 2021. With respect to the latter Committee, the subject of this letter, let me simply restate the obvious: people make all the difference. So we formed a committee that looked not just at the process of governance but its content. To read further about the Committee refresh and governance framework, see page 90.

Board composition

Sir Peter Gershon, our prior chair, was kind enough to appoint me to chair of the Nominations Committee when I joined the Board in January 2021. Having the opportunity to chair both this Committee and the Board allows for me to ensure there is alignment across our governance practices and to ensure robust oversight of succession. Sir Peter recognised that the Board would have quite a bit of turnover in membership due to a substantial number of directors reaching the limits of their terms and that I should be the one leading the process of identifying new directors. In the year we recruited a number of new directors from diverse backgrounds and experiences, four of whom were seated earlier in the financial year and one who will join the Board ahead of this AGM. All Board members participated in the recruitment and it was encouraging how much agreement there was as to the talent we needed. There was also a unanimity of view that we were seeking seasoned senior professionals who were confident in their capabilities, independent in their thought processes, curious about our business, and invested in a commitment to a net zero future. Collectively, they bring vitality and energy to the boardroom, gracefully balancing support and challenge. Because such a large cohort of directors has come on board at one time, we will seek to stagger terms so that we don't encounter the same 'cliff' of retirements in the future as we experienced this year.

Management development and succession

In my first meeting as Board Chair, we began by exploring what were the most important things we needed to accomplish as a Board. From that discussion, we adopted goals for our work. One area that stood out was the need for a more robust process of reviewing management development and executive succession, a key responsibility of this Committee. We worked with our Chief Executive to review the succession pipeline for many of the key roles in the Company, to discuss development plans to our

emerging leaders, and to identify where we need to introduce new skills and experience into the organisation. In its first year, the Committee has focused on executive development in particular. However, we have also reviewed the results of the culture survey, reviewed the demographics of our workforce and turnover, and used our engagement sessions to learn more about the temperament and issues of the wider workforce.

In line with our expanded remit, the Committee considered our workforce engagement mechanism and agreed to continue with our chosen method of enhancing existing Board engagement sessions. We discuss the learnings of these engagement sessions at every Board meeting, discussing whether we have the pulse of the organisation. We also have a schedule for the year to ensure we are meeting with organisations on both sides of the Atlantic, in offices, depots, and on the front line. At year end, the Committee considered whether these small and larger engagements remain appropriate and effective for us to stay in touch with all levels of the organisation and at this time we are agreed that they do; however, we will continue to challenge and review effectiveness in this area. See pages 96-97 for an overview of Board engagement activity through the year.

Diversity, equity and inclusion (DEI)

In 2021, the Company appointed its first senior executive with a remit specifically tied to diversity and inclusion. Natalie Edwards, our Global Chief Diversity Officer, has met with us to review the global DEI strategy, which includes a clear set of DEI commitments which will provide clarity and direction for the organisation. The work of the team in engaging with the workforce has been exemplary and we anticipate having Natalie meet with us frequently given the importance of this agenda. We also welcome the FCA's new listing rule requirements around diversity and inclusion reporting. These will apply for our next year's report; however I'm happy to report that we are already in compliance with these measures.

Culture and accountability

High-performing organisations are characterised by, among other things, clarity on goals and performance. To this end, the Board had an independent consultant review our board effectiveness and gather feedback on each of us as a contributor. Through this process, we are seeking to model the very culture that we seek to strengthen in the organisation. We are actively engaged with the Remuneration Committee and the Board as a whole in ensuring that there are clear objectives for the organisation and leaders so that we both monitor progress and measure outcomes. See page 95 to read more about how we as a Board monitor the culture of the Company.

Paula Rosput Reynolds

Paula Rosput Reynolds
Committee Chair

People & Governance Committee report continued

Our Board diversity

As at 31 March 2022

Board gender



Executive and Non-executive Directors



Board members by nationality



Tenure



Board skills and experience



Diversity policy objectives – progress update

The People & Governance Committee noted progress against the following Board Diversity Policy objectives at its March 2022 meeting:

Objectives	Progress
The Board aspires to meet and ultimately exceed the target of 33% of Board and the CEO's direct report positions to be held by women.	There are currently six female Directors on the Board, resulting in 46% women on the Board. We currently have 33% female direct reports to the CEO.
The Board aspires to meet and ultimately exceed the Parker Review target for FTSE 100 boards to have at least one Director from a non-white ethnic minority by 2021.	We currently have two Directors from a non-white ethnic minority.
The Board aspires to achieve 50% diversity* on the Board.	We currently have 54% diversity on the Board.

* Diversity of the Board is defined, in this context, as female and non-white ethnic minorities.

Our Policy determines that:

- all Board appointments and succession plans are made on merit and objective criteria, in the context of the skills and experience that are needed for the Board to be effective and to guard against 'group think';
- we will only engage executive search firms who have signed up to the UK Voluntary Code of Conduct on Gender Diversity; and
- we will continue to make key diversity data, both about the Board and our wider employee population, available in the Annual Report and Accounts.

In the year, the Committee will review the Policy and associated objectives to consider if these remain appropriate and update as necessary to ensure these remain relevant and stretching. Report on progress against our objectives (as set out above) will continue to be outlined in the Annual Report and Accounts.

Examples of the initiatives to support inclusion and diversity throughout our Company are set out on page 66.

Appointments, skills and the talent pipeline

The Board has a wide range of skills and experience and considers this when appointing new Directors. Skills such as ESG and climate change have been given greater focus in recent years to reflect the evolving strategy of the Company. The graph to the side provides an overview of the breadth of skills and experience currently on the Board. The Committee took account of these, as well as level of experience required and diversity, when considering appointments in the year. The appointments of Ian, Tony, Martha and Anne followed a transparent and thorough process, outlined below.

- Russell Reynold Associates and MWM Consulting were appointed jointly as the search firm for each appointment made throughout the year. There are no connections between the search firms, the Company and its individual directors. They reviewed our requirements and developed specific criteria for candidate selection alongside the requirement for broader Non-executive Director characteristic requirements, including deep engineering expertise, transformational experience and strong credentials in the future of energy and ESG considerations.
- Individual role profiles were created and a short list of candidates presented for consideration to the Chair of the People & Governance Committee.
- Preferred candidates met with members of the Board, who reported back to the People & Governance Committee.
- Leading candidates were identified and the People & Governance Committee recommended these for approval by the Board.

The Committee discussed the talent pipeline regularly, giving focus to ensuring development opportunities also reached further into the organisation and identified those less advanced in their careers but with long-term potential. A Future Leaders Programme was highlighted to the Committee and would be built into the regular talent updates. The programme focuses on less senior colleagues, enabling a wider group of potential future talent to enjoy a structured development programme, using digital tools as well as tailored support.

At senior management level, the Committee approved the appointment of Ben Wilson as Chief Strategy & External Affairs Officer, Stephen Woerner as President, New England, and Will Serle, who joined the Company as Chief People & Culture Officer. Phil Swift also joined with the integration of WPD as President, WPD. All four individuals joined the Group Executive Committee. Alison Kay, interim Chief Strategy & External Affairs Officer, Andy Doyle, Chief People & Culture Officer; and Badar Khan, President, US, stepped down in the year.

Audit & Risk Committee report



Key actions during the year

- Increased oversight of risk matters
- Review of WPD acquisition accounting and first annual goodwill impairment test
- Additional meetings to consider fraud and bribery allegations
- Hosted colleague engagement sessions specific to the Committee's remit

Composition and Committee attendance:

The Committee is made up of five independent Non-executive Directors.

Committee members	Attendance
Liz Hewitt 	8/8
Thérèse Esperdy	8/8
Ian Livingston ¹	3/3
Amanda Mesler	8/8
Jonathan Silver ¹	3/3
Former Committee members	Attendance
Paul Golby ²	1/2

 Committee Chair

1. Ian Livingston and Jonathan Silver joined the Committee effective 1 September 2021.
2. Paul Golby was unable to attend the additional Committee meeting on 6 July 2021 due to a prior commitment and stepped down from the Board effective 26 July 2021.

Committee financial experience

The Board is satisfied that the Chair, as a chartered accountant with significant board-level financial and audit experience, is suitably qualified and has recent and relevant financial experience. The Committee as a whole is deemed to have competence relevant to the sector in which the Company operates.

Fair, balanced and understandable

The Committee was satisfied that the Annual Report and Accounts, taken as a whole, is fair, balanced and understandable and provides the necessary information for shareholders to assess the Company's position and performance, business model and strategy. This was recommended to the Board at its meeting in May 2022.

Statement of Compliance with the Competition and Markets Authority (CMA) Order

The Company confirms that it has complied with The Statutory Audit Services for Large Companies Market Investigation (Mandatory Use of Competitive Tender Processes and Audit Committee Responsibilities) Order 2014 (Article 7.1), including with respect to the Audit & Risk Committee's responsibilities for agreeing the audit scope and fees and authorising non-audit services.

Role of the Committee

The work of the Audit & Risk Committee has never been more important: investors, regulators and other stakeholders require ever more informative and reliable reporting, not just of the results and financial position, but of resilience, risk management and the Company's environmental, social and governance (ESG) position and progress. The Committee also oversees and evaluates the Company's approach and controls relating to the prevention and detection of fraud and bribery, including overseeing the effectiveness of whistleblowing mechanisms.

In September 2021, the Committee's remit was expanded to have an increased delegation from the Board in relation to risk. We have spent significant time updating the reporting cadence of risk matters, working closely with the Chief Risk Officer to support effective oversight of the Company's principal, emerging and child risks and associated enterprise risk-management processes.

Review of the year

I'm delighted to be writing to you following my first full financial year as Audit & Risk Committee Chair.

During the year, we met four times as part of the standard schedule of Committee meetings. After the virtual world we endured in 2020/21, it was great to be able to meet in person again. Following the public announcement of the federal investigations into allegations of fraud and bribery by former National Grid employees in our US business, the Committee met four extra times in the year to provide oversight of the internal investigations. We also endorsed management broadening the scope of its investigations to receive assurance that the now substantiated allegations of fraud and bribery were isolated incidents and National Grid's controls are appropriate and continue to operate effectively to mitigate future instances.

The Committee also received updates on the successful go-live of the new enterprise resource planning (ERP) and general ledger system in the UK and we continued our oversight of ESG reporting and assurance matters. In particular, we have discussed the rapid market and regulatory developments in this space and management's strategies to respond to these changes.

It is vital that the Committee goes the extra mile by spending additional time on significant matters that present themselves each year. Nonetheless, we must ensure a laser-like focus on regulatory and compliance matters within our remit. We maintain an extensive and detailed agenda focusing on the audit, compliance and risk processes within the Company, working closely with management, the external auditor, Corporate Audit and the Finance and Legal teams. Key matters of business considered during the year are set out on page 103.

Engagement

In October 2021, we had a roundtable session giving Committee members the opportunity to engage with key management personnel in the UK and US, and this doubled as an induction session for Jonathan and Ian, whom I was glad to welcome to the Committee. We also held a virtual question and answer session with members of the US Finance, Risk and Global Internal Audit teams in January 2022. We are looking forward to returning to the US later in 2022 when I hope to host a similar in-person session. These were key parts of the wider stakeholder engagement focus for the Board which is detailed on pages 96–97.

Transactions

We have performed an active role monitoring the progress of the various transactions across the Group. We received regular updates relating to the integration of WPD's financial reporting and risk and controls framework into the Group and we had an informative session with the CEO and CFO of WPD in November 2021, who provided an overview of the business. We were regularly kept up to date on the Company's strategic portfolio transactions, including updates from management in relation to the accounting issues linked to the UK Gas Transmission (NGG) and NECO sales.

Thank you

I would like to thank Committee members, the management team and Deloitte for their commitment throughout an extremely busy year and for their contribution, support and integrity provided in support of the Committee's work. A sincere thank you must go to Doug King, who has completed his fifth and final statutory audit for National Grid. He has been a pleasure to work with and we are extremely grateful for his constructive challenge and professionalism over the past five years.

Liz Hewitt
Committee Chair

Audit & Risk Committee report continued

Significant issues/judgements relating to the financial statements

In considering the financial results announcements and the financial results contained in the Annual Report and Accounts, the Committee reviewed the significant issues and judgements made by management in determining those results.

The significant issues and judgements considered for the year ended 31 March 2022 are set out in the following table.

In addition, the Committee and the external auditor discussed the significant issues addressed by the Committee during the year. You can read more in the Independent Auditor's Report on pages 135 – 146.

Matter considered	Factors and reasons considered, including financial outcomes
WPD goodwill impairment test	<ul style="list-style-type: none">In March and May 2022, the Committee reviewed the output of the provisional and then final WPD goodwill and indefinite life intangible asset impairment test. The Committee challenged the reasonableness of the duration of the cash flow forecast used in the test and reviewed the key assumptions, including the cash flows, discount rate and terminal value. The Committee also received Deloitte's audit conclusions over both the impairment work and the execution of management's impairment SOX controls. The Committee concluded that the judgements taken and estimates made by management were supportable and should be disclosed as areas of judgement and key sources of estimation uncertainty.
Proposed disposal of a majority stake in the UK Gas Transmission business	<ul style="list-style-type: none">During the year, the Committee oversaw the judgements and accounting for the proposed sale of a majority stake in UK Gas Transmission. In particular, the Committee reviewed management's judgement on the date the business qualified as held for sale and a discontinued operation. Based upon management's analysis versus the criteria outlined in IFRS 5, the Committee was satisfied the judgement was appropriate.
Useful life of gas assets in the context of climate change	<ul style="list-style-type: none">Consistent with prior years, the Committee reviewed and concurred with management's judgement that, notwithstanding the regulatory and legislative commitments to net zero in the jurisdictions that we operate in, there will be a role for our gas networks beyond 2050 in a range of possible scenarios and that nothing suggests that our gas asset lives should be shortened at this point. The Committee also agreed with management that the additional disclosures and sensitivities previously added to the notes to the financial statements should be retained, along with the disclosures of the matter as a key judgement and key source of estimation uncertainty.
Application of the Group's Exceptional Items Framework	<ul style="list-style-type: none">In March 2022, the Committee approved revisions to the Group's Exceptional Items Framework (Framework) to include a disclosure section, reflecting the latest guidance and recommendations from the FRC following its October 2021 Thematic Review into Alternative Performance Measures. This update also reflected transactions that had occurred since the previous update to the Framework in September 2020.Throughout the year, the Committee considered papers from management setting out how the Framework had been applied to certain events and transactions over the period, as set out in Note 5 to the financial statements.For each item, the Committee considered the judgements made by management, including challenging when transactions were concluded as not qualifying for exceptional treatment.Based on the reviews performed, the Committee was satisfied the Framework had been correctly applied throughout the year.

Financial reporting

Going concern and viability

The Committee reviewed the Group's going concern statement, viability statement (as set out on page 153 and pages 33–35 respectively) and the supporting assessment reports prepared by management. During 2021/22, there has been continued review of the Group's viability and going concern with support of the Finance Committee. The financial statements are prepared on a going concern basis such that the Company and the Group have adequate resources to continue in operation for at least 12 months from the date of signing the consolidated financial statements.

Statutory reporting framework policy

The Board has responsibility for effective management of risk for the Group including determining its risk appetite, identifying key strategic and emerging risks, and reviewing the risk management and internal control framework. The Committee, in supporting the Board to assess the effectiveness of risk management and internal control processes, relies on a number of Company-specific internal control mechanisms to support the preparation of the Annual Report and Accounts and the financial reporting process. This includes both the Board and Committees receiving regular management reports to include analysis of results, forecasts and comparisons with last year's results, and assurance from the external auditor.

With the regulatory environment evolving quickly, the Committee is kept fully informed of all new legislation, FRC advice and best practice and the requirements of the Code and Disclosure and Transparency Rules. During 2021/22, the Committee has been kept up to date with changes to legislation and regulatory reviews and has had oversight of the potential impacts.

The Committee and Board receive, in advance of the full-year results, a periodic SOX report on management's opinion on the effectiveness of internal control over financial reporting. This report concerns the Group-wide programme to comply with the requirements of SOX and is received directly from the Group SOX and Controls team.

In relation to the financial statements, the Company has specific internal mechanisms that govern the financial reporting process and the preparation of the Annual Report and Accounts. The Committee oversees that the Company provides accurate, timely financial results and implements accounting standards and judgements effectively, including in relation to going concern and viability. Our financial processes include a range of system, transactional and management oversight controls. Our businesses prepare detailed monthly management reports that include analysis of their results, along with comparisons to relevant budgets, forecasts and the previous year's results. Monthly business reviews, attended by the Chief Executive and Chief Financial Officer (CFO), supplement these reports. Each month, the CFO presents a consolidated financial report to the Board.

Key matters considered by the Committee

The key matters considered by the Committee during the course of the year ended 31 March 2022 are set out below:

Matter considered	Factors and reasons considered, including financial outcomes
Financial reporting	<ul style="list-style-type: none"> In addition to the significant issues and judgements highlighted on page 102, the Committee also considered the accounting for the Company's disposal of its investment in the St William Homes LLP joint venture, the results of the purchase price acquisition exercise for the WPD acquisition, the ongoing impact of COVID-19 on our US retail customers' bad and doubtful debts provision, the accounting for the Company's interconnectors subject to cap and floor arrangements, and management's evaluation of the IFRS Interpretation Committee's agenda decisions on cloud computing arrangement costs. Monitored and reviewed the integrity of the Group's financial information and other formal documents relating to its financial performance, including the appropriateness of accounting policies, use of the going concern assumption and viability assessment. Recommended to the Board management's key accounting judgements and key sources of estimation uncertainty, including those related to pension valuations and environmental provisions for the 2021/22 half-year and full-year financial statements and the filing of other reports with the SEC containing financial information.
ESG reporting	<ul style="list-style-type: none"> Reviewed management's proposed strategy for ESG reporting and assurance, and its proposal for implementing an ESG reporting system to ensure accurate, reliable and timely ESG reporting. Received an update on the preparation of the Responsible Business Report and the Company's fifth TCFD disclosure. This included reviewing management's assessment of full compliance with TCFD's 11 recommendations. Reviewed management's voluntary disclosures aligned with the EU Taxonomy, including the key judgements taken in preparing the disclosure. Also, management's disclosure maps on two leading ESG reporting frameworks: the Global Reporting Initiative and Sustainability Accounting Standards Board. Recommended approval of the Responsible Business Report and related publications to the Board, following review of PwC's external assurance report.
WPD acquisition	<ul style="list-style-type: none"> In addition to the WPD accounting matters noted on page 102, in September 2021, the Committee received an update on the implementation of management's Financial Position and Prospects Risk Mitigation Plan. In November 2021, the WPD CEO and CFO attended the Committee to provide an overview of WPD.
Internal controls	<ul style="list-style-type: none"> The Committee provided oversight over management's internal investigation following the federal investigations into allegations of fraud and bribery by former National Grid employees in our US business. The Committee endorsed management broadening the scope to confirm the Company's controls remain appropriate and continue to operate effectively. Received regular updates on progress towards the Group's annual US regulatory attestation. In September 2021 and March 2022, the Committee received updates on management's structured programme of work to strengthen the maturity of the Group's risk and controls framework. In May 2022, the Group CFO presented a close out update on the implementation of the new ERP and general ledger system and completion of the roll-out.
Risk and viability statement	<ul style="list-style-type: none"> Received regular updates on the actions being taken to manage the risk in line with the Group's risk appetite. Received confirmation from each of the businesses and functions that risks are managed appropriately and continue to consider external influence and matters outside of the Group's control. Monitored the internal control processes and reviewed and challenged the going concern and viability statements, including testing for reasonable worst-case scenarios. Satisfied itself that the Board and management's risk management processes were functioning effectively and provided sufficient assurance.
External auditor	<ul style="list-style-type: none"> Received an update report at each meeting, including updates on the status of, and results from, the annual audit process. Considered the external auditor's report on the 2021/22 half- and full-year results. Considered throughout the year the external audit plan, including monitoring the approach, scope and risk assessments contained within. Assessed the effectiveness and independence of Deloitte, as well as continued review and oversight of non-audit services from Deloitte. Continued to hold private meetings with Deloitte and maintained dialogue throughout the year. Engaged with Deloitte regularly on the forward planning and succession planning for the lead Audit Partner; this included the confirmed successor attending a number of Committee meetings during the year. Recommended the reappointment of Deloitte as the Company's external auditor to the Board.
Corporate audit	<ul style="list-style-type: none"> Received regular updates on the 2021/22 audit plan and the significant findings and approved the audit plan for 2022/23. Approved the Corporate Audit Charter which had been updated to reflect best practice and recent corporate governance developments. Engaged with the Global Internal Audit team regularly as part of its role in the internal investigation into fraud and bribery controls.
Compliance, governance and disclosure matters	<ul style="list-style-type: none"> Reviewed and approved the updated terms of reference for the Committee. Received updates on ethics and business conduct, including whistleblowing to support the oversight, management and mitigation of business conduct issues as part of the controls framework. Discussed the whistleblowing procedures in place and confirmed internal procedures remained effective, noting the communications during the year to employees, including additional communications in relation to fraud and bribery. Received bi-annual updates in September 2021 and March 2022 of compliance with external legal requirements and regulations, including any non-compliance issues and steps being taken to improve compliance across the Group.

Risk management and internal control

Risk management

Risk management is the responsibility of the Board and is key to achieving our strategic priorities. The system of risk management is established by the Board, which sets risk appetite and maintains the system of internal controls to manage risk within the Group. The Audit & Risk Committee has delegated responsibility from the Board for the oversight of the Group's systems of internal control and risk management. This includes policies, compliance, legislation including compliance with SOX and the UK Bribery Act 2010, appropriateness of financial disclosures, procedures, business conduct and internal audit. As part of the framework across the Group, National Grid's values – 'do the right thing', 'find a better way' and 'make it happen' – continue to communicate and promote a culture of integrity across the Group. During the year, the Board reviewed the principal risks facing the Group (as set out on pages 28 – 32). The Committee provided oversight and reviewed the risk management process to ensure that processes are in place to manage risk appropriately.

Internal control and risk management effectiveness

We continually monitor the effectiveness of our internal control and risk management processes to make sure they continue to be effective, robust and remain fit for purpose. Controls are in place to reduce either the likelihood or impact of any risk once it has occurred. Following the review over the year the Committee recommended to the Board that the processes had the correct authority, expertise and independence and provided sufficient assurance to the Company.

This review includes financial, operational and compliance controls. The Committee also monitors and addresses any business conduct issues or compliance issues. The Certificate of Assurance (CoA) process operates via a cascade system and takes place annually in support of the Company's full-year results.

The Company has a Chief Risk Officer who leads on the Group's risk management processes. Corporate Audit also supports the Group's risk management and internal control processes. They maintain an independent and objective approach to evaluate and enhance process developments. The Global Head of Audit appointment is a matter reserved for the Committee and has responsibility for the internal audit function, attends all Committee meetings and has access to the Committee Chair as necessary.

At each of the Committee's meetings, progress of the internal audit process is reviewed including significant outstanding actions. The Committee also has regular private meetings with the Global Head of Audit. The Committee notes timelines and where actions are overdue, challenges these. Corporate Audit is responsible for developing the audit plan including engaging in major change programmes across the business.

The Committee Chair signed the updated Corporate Audit Charter in December 2021 following agreement from the Audit & Risk Committee and Safety & Sustainability Committee in November 2021 and December 2021 respectively. The Committee also received the results of the Internal Quality Assessment that took place in 2021/22.

External audit

The Committee is responsible for overseeing the relationship with the external auditor. The Committee Chair meets with the external auditor prior to each meeting and outside the meeting cycle on a regular basis.

- Deloitte is the external auditor to the Company.
- Appointed in 2017 following a formal tender process.
- Reappointed at the 2021 AGM for the year ended 31 March 2022.
- The Committee was authorised by shareholders to set Deloitte's remuneration at the 2021 AGM.
- Current lead Audit Partner is Doug King and 2021/22 was the fifth and final year of his term.

Chris Thomas has been selected as Doug King's successor and will oversee the statutory audit for 2022/23. The Committee has spent significant time with both Doug and Chris during 2021/22 to make sure the succession is seamless; this included Chris attending a number of Committee meetings in the year alongside Doug.

Following consideration of the auditor's independence and objectivity, the audit quality and the auditor's performance, the Committee was satisfied with the effectiveness, independence and objectivity of Deloitte and recommended to the Board its reappointment for the year ended 31 March 2023.

A resolution to reappoint Deloitte and give authority to the Committee to determine its remuneration will be submitted to shareholders at the 2022 AGM. In accordance with the CMA Order Article 4, the Committee believes that a competitive tender no later than 2026 is in the best interests of the Company given the independence, objectivity and performance of Deloitte to date and to ensure the appropriate time and planning required to execute a comprehensive tender process. This approach is in line with current regulation that requires a tender every 10 years.

Effectiveness, quality and performance

As part of the Committee's responsibilities, consideration is regularly given to the effectiveness of the external auditor to verify that the quality, challenge and output of the external audit process is sufficient. Throughout the year the Committee also looks at the quality of the auditor's reports and considers its response to accounting, financial control and audit issues as they arise. To maintain high levels of quality the Committee reviews and challenges, where appropriate, the external audit plan prior to approval.

Audit quality reports received by the Committee

External auditor Insights Report

On an annual basis, the Committee receives a report summarising the financial reporting and/or internal control areas that, based on the results of the most recent audit, Deloitte considers management should prioritise during the year ahead. This year, the report included management's responses to the recommendations, along with an update on prior year recommendations.

Management survey

Management undertook a survey in FY22 that sought views from over 100 key stakeholders involved in the external audit process across the Company. The questions comprised of the following areas:

- The external auditor's performance; key performance indicators included:
 - planning and scope;
 - robustness of the audit process;
 - independence and objectivity;
 - quality of delivery;
 - quality of people and service; and
 - understanding of the Company.
- National Grid's commitment to the audit.

Management, the external auditor, and the Committee discussed the results of the survey, which showed that the external auditor's score had remained consistent with the prior year. Deloitte agreed to put in place an action plan for areas of improvement.

In March 2022, the Committee received the FRC's Audit Quality Review Inspection Report of Deloitte for the audit of the Company's financial statements for 2020/21. The Committee noted there were no key findings from the review and three areas of good practice highlighted by the FRC.

The Committee also regularly engages and receives the views of senior management and members of the Finance team in forming conclusions on auditor effectiveness.

Meetings are held around each scheduled Committee meeting between Committee members and the external auditor, without management being present to encourage open and transparent feedback. This additional time outside of the formal meeting environment helps us to monitor the independence, quality and effectiveness of the external audit functions.

During the year, the Committee:

- reviewed the quality of audit planning, including approach, scope, progress and level of fees;
- reviewed the outcome of recommendations from the Deloitte Insights Report;

- held private meetings with Deloitte without management present;
- held meetings with the UK Partner and US Partner;
- confirmed that the Deloitte external audit process had been delivered effectively; and
- met with, and approved the appointment of, and transition plan for, Chris Thomas, the new lead Audit Partner who will take over for the 2022/23 audit year.

Auditor independence and objectivity

The independence of the external auditor is essential to the provision of an objective opinion on the true and fair view presented in the financial statements.

The Committee considered the safeguards in place, including the annual review by Corporate Audit, to assess the external auditor's independence. The external auditor reported to the Committee in May 2022 that it had considered its independence in relation to the audit and confirmed that it complies with UK regulatory and professional requirements, SEC regulations and Public Company Accounting Oversight Board (PCAOB) standards and that its objectivity is not compromised. The Committee took this into account when considering the external auditor's independence and concluded that Deloitte continued to be independent for the purposes of the external audit and confirmed that this recommendation was free from third-party influence and restrictive contractual clauses.

Non-audit services

In line with the FRC's Ethical Standard and to maintain the external auditor's objectivity and independence, we have a policy governing Deloitte's provision of non-audit services.

The cap on the total fees that may be paid to the external auditor for non-audit services in any given year is 70% of the average audit fees paid in the last three financial years.

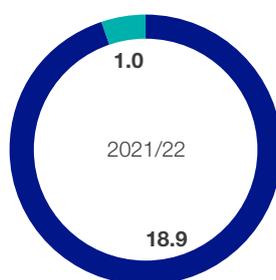
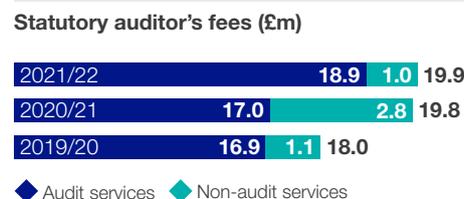
The provision of any non-audit service by the external auditor requires prior approval. A subset of services where, due to their nature, we believe there is no threat to the auditor's independence or objectivity qualify as pre-approved. These services must have a value under £250,000 (increased by Committee approval during the year from £50,000) and be reviewed in advance by the CFO. These services are limited to:

- audit, review or attest services. These are services that generally only the external auditor can provide, in connection with statutory and regulatory filings. They include comfort letters, statutory audits, attest services, consents and assistance with review of filing documents; and
- other areas, such as provision of access to technical publications.

Management presents a list of all non-audit work requests to the Committee to ensure the Committee is monitoring all non-audit services provided. Non-audit service approvals during 2021/22 principally related to comfort letters for debt issuances and refreshes of debt issuance programmes.

External auditor fees

The amounts payable to the external auditor, Deloitte, in the past two years were:



Total billed non-audit services provided by Deloitte during the year ended 31 March 2022 were £1.0 million, representing 5% of total audit and non-audit fees. In 2020/21, non-audit services totalled £2.8 million (14% of total audit and non-audit fees).

Further information on the fees paid to Deloitte for audit, audit-related and other services is provided in Note 4 to the financial statements on page 162.

Total audit and audit-related fees include the statutory fee and fees paid to Deloitte for other services that the external auditor is required to perform, such as regulatory audits and SOX attestation. Non-audit fees represent all non-statutory services provided by Deloitte.

Safety & Sustainability Committee report



Key decisions during the year

- Approved the year-end sustainability disclosures
- Approved the Company's environmental sustainability strategy
- Approved the Committee's revised remit as the Safety & Sustainability Committee
- Approved the FY22 Audit Plan in respect of safety and sustainability matters

Composition and Committee attendance:

The Committee is made up of four independent Non-executive Directors.

Committee members	Attendance
Earl Shipp [◆]	6/6
Anne Robinson ¹	2/2
Tony Wood ²	4/4
Martha Wyrsh ²	4/4
Former Committee members	Attendance
Mark Williamson ³	2/2
Liz Hewitt ²	2/2
Amanda Mesler ²	2/2
Paul Golby ⁴	1/1

[◆] Committee Chair

1. Anne Robinson was appointed to the Committee effective 19 January 2022.
2. Tony Wood and Martha Wyrsh were appointed to the Committee and Amanda Mesler and Liz Hewitt stepped down from the Committee effective 1 September 2021.
3. Mark Williamson joined the Committee effective 1 September 2021 and stepped down from the Board effective 31 December 2021.
4. Paul Golby stepped down from the Board effective 26 July 2021.

Review of the year

I'm pleased to present to you my first report as Chair of the Safety & Sustainability Committee. After a review undertaken earlier in 2021, we refreshed our remit. In addition to health and safety, we agreed to increase monitoring of sustainability-related issues including external climate-related disclosure requirements. You'll note our new name, the Safety & Sustainability Committee, with effect from 1 September 2021.

To ensure we are well positioned to advise the Board on these wider strategic considerations, given the rapidly changing external environment

and growing societal expectations, the Committee welcomed new members. We thus have a refreshed composition, providing significant experience across engineering, safety, and process-focused industries as well as in-depth knowledge of the energy transition, climate change and stewardship of environmental and sustainability matters.

Despite the widening of our remit, we have not lost sight of the health considerations we have customarily monitored. We saw continuing COVID-19 impacts being felt in both the UK and US through most of the year. Towards the end of the fiscal year, we monitored the gradual and safe return to the workplace for those who have been working from home. It is appropriate to recognise everyone's perseverance and forbearance throughout the last two years. In particular, the contributions of our front-line workers, who continued to work in the field through the pandemic, were exemplary. They have done a marvellous job designing, implementing and complying with numerous protocols to keep themselves healthy and thus protecting our customers as well. Our numbers of sickness within the workforce were low and productivity was maintained throughout. Nevertheless, the prolonged pandemic took an emotional toll on the entire organisation and the Committee has been briefed on the strengthening of the support the Company offers through various employee assistance programmes.

Safety, wellbeing and asset protection

Safety is always our number one priority. We monitored both process and personal safety at every meeting and requested 'deep dives' into selected events where we felt our independent oversight would be of value. Whilst we have continued strong progress on our leading safety indicators, our lagging (LTIFR) safety performance has been challenging to sustain through the pandemic. This is a key area of focus and one that we will continue to track as a Committee. The integration of WPD also progressed throughout the year and we familiarised ourselves with WPD's measurement programme and how it would be aligned with National Grid's. In January 2022, Phil Swift, President of WPD, provided us with an overview of the safety management of WPD, including lessons learnt that were being shared between National Grid and WPD. Overall, we are mindful of the amount of organisational change ongoing. Given this backdrop, we have reviewed safety performance and progress; we will continue to challenge the organisation to keep its strong safety focus. You can see some of our key safety results at page 27.

In September 2021, there was a fire at one of our interconnectors at Sellindge, where we own and operate HVDC facilities across the English Channel. We are grateful that no one was injured in this incident, in part due to the excellent training and quick thinking of our operators on duty at the time. The damage to the facility and the potential risk to human life were thoroughly reviewed by the Committee; we convened an additional meeting in December 2021 to receive a report from the Group Chief Engineer on the status of the investigation and a further update was provided

in January 2022 following the completion of the investigation. Lessons learnt have already been communicated throughout the organisation and will influence our practices going forward.

Throughout the year, several significant storms in the UK and the US highlighted that we have to redouble our preparedness. The storms saw large swathes of customers disconnected from power for, in some cases, significant periods of time. Our people worked tirelessly to restore service to every last disconnection safely and securely. The emergence of extreme weather has potential impacts on our assets and our workforce. We will continue to provide oversight of the Company's efforts to adapt to extreme weather and to ensure our safety processes are robust and resilient to withstand whatever may come our way.

Sustainability

The second priority of this Committee is sustainability. In line with the Committee's expanded remit, we considered the Company's TCFD strategy through the year and are pleased to report that the Company has fully aligned its disclosures with the TCFD Recommended Disclosures. See pages 70 – 83 for further information. Whilst the Audit & Risk Committee focuses on the financial aspect of TCFD, we spent time considering the climate scenario analysis and the Company's wider climate strategy and commitments. We also received, for the first time this year, the Company's Climate Transition Plan for review. At the 2021 AGM, shareholders approved our first ever climate resolution, outlining our targets for net zero and our commitment to bring the Company's climate transition plan to a vote at the 2022 AGM. This plan will provide the opportunity to review our metrics and data in this area.

We also continued to review the Company's wider sustainability strategy and performance. National Grid's Responsible Business Report provides additional insights into our organisational aims and ambitions, and our performance against our net zero targets and wider sustainability strategy. We convened an ad-hoc Committee meeting in March 2022 to specifically consider our external reporting obligations in relation to sustainability and reviewed and commented on the initial drafts of these. We also brought the entire Board together for a separate session to undertake a thorough review of the aims, ambitions and measures to ensure that these commitments are embedded in the Board's stewardship.

Looking forward

As we navigate these changing and challenging times, we will continue to ensure we are having the right discussions and challenging the progress and pace at which we are moving. It is sure to be another busy year and I look forward to providing you with a further update on our progress.

Earl Shipp
Committee Chair

Finance Committee report



Key decisions during the year

- Approved the Group's financial risk appetite, aligning this with the Board's refreshed risk appetite framework
- Reviewed the pension arrangements linked to the Group's key transactions and approval of the Group pension strategy
- Considered the structure of the sale of the equity interest in the St William Homes LLP joint venture to The Berkeley Group plc
- Approved forecast expenditure for 2022/23 insurance renewals

Composition and Committee attendance:

The Committee is made up of three independent Non-executive Directors and two Executive Directors.

Committee members	Attendance
Thérèse Esperdy	4/4
Jonathan Dawson	4/4
Liz Hewitt ²	2/2
Andy Agg	4/4
John Pettigrew	4/4
Former Committee members	Attendance
Mark Williamson ¹	1/1
Jonathan Silver ²	2/2

Committee Chair

1. Mark Williamson stepped down from the Board effective 31 December 2021.
2. Liz Hewitt joined the Committee and Jonathan Silver stepped down from the Committee effective 1 September 2021.

Review of the year

This year we met on four scheduled occasions to undertake our responsibility as a Committee of monitoring the financial risk of the Group, focusing on the key areas within our remit: Treasury, Tax, Pensions and Insurance.

Despite continued challenges presented by the pandemic, we engaged directly with a number of the finance professionals in the Company. Jonathan Silver and I met with a cross-section of members in the Treasury, Tax, Pensions and Financial Planning teams in Massachusetts. As most organisations are now back in offices, we will continue to arrange separate engagement sessions.

Transactions

It has been vital to continue our focus on the Group's financing strategy, which is supporting the portfolio repositioning of the Group. We received regular updates during 2021/22 on the progress of the ongoing transactions. As a Committee we've been particularly interested to hear about the progress of WPD colleague integration into key departments such as Treasury, Tax, Pensions and Insurance; I'm pleased to report the integration continues to progress well.

We've monitored progress of the sale of a majority stake in UK Gas Transmission throughout the year, including a review of the engagement with credit rating agencies and of the UK Gas Transmission derivative book ahead of the launch of the sale process. We have also continued to monitor progress on the sale of NECO to PPL.

Financial risk appetite

During the year, the Committee reviewed the Group's financial risk appetite and took the opportunity to evaluate how financial risk was managed in line with the Board's refreshed risk appetite framework.

Treasury

It has been another busy year for the Company in terms of bond issuances. I'm delighted that National Grid continues to attract strong investor demand in the market at both holding and operating company levels. The issuances we've seen have typically had large orderbooks and tight spreads. We continue to contribute to the Group's Green Financing commitments and in August 2021 National Grid plc issued a dual tranche €1.5 billion bond across 7 years and 12 years; the 7-year tranche was issued in a green format.

In March 2022, we received a presentation from one of our core global banking partners that provided a macro market update and included key updates on the external view of National Grid's bond issuances and impacts of the conflict in Ukraine and retail energy crisis.

Throughout the year, we monitored the actions of the credit rating agencies. As noted above, we still have significant transactional activity ongoing and hence closely monitor our gearing, which will be reduced as asset proceeds are used to restore ratings headroom.

Insurance

The fire at one of our interconnectors at Sellindge pushed significant focus on insurance for the Committee and has had an impact on the Company's approach to renewals for 2022/23, whilst market conditions have continued to harden. The Head of Insurance has spent significant time with the Committee providing updates on the claims process whilst I've worked with my fellow Committee Chairs on implications of safety and accounting.

Tax

Following President Biden's election, we've stayed abreast of the US congressional tax proposals and potential impacts on the Group. In November 2021, we invited KPMG to update us on the key expected outcomes but indeed, at the time of writing, congressional action is still a moving target.

In the UK, with the increase in the minimum statutory rate, we have reviewed the changes that arise in the current year deferred taxes and the exceptional charge to remeasure the opening deferred tax liabilities going forward.

Pensions

In the UK, pension investments are managed by independent Trustees. However, it is the Committee's duty to ensure funding is adequate to meet obligations. As the funding positions of the various defined benefit schemes improve, it allows the Trustees to reduce investment risk to everyone's benefit. This year, we oversaw the transfer of WPD's pension arrangements to National Grid and Trustee appointments will be refreshed in 2022/23. During the year, we invited Mercer to provide external expertise to the Committee on the UK pension landscape. We also received detail on the Pension Schemes Act 2021 and the potential implications this had on the Group.

In the US, pension investments are overseen by an internal fiduciary committee comprising senior leaders with appropriate levels of financial experience. Over the course of the year, we have worked to ensure the transition of pension and other retiree benefits of our Rhode Island colleagues as they move across to PPL. There has also been further de-risking of our pension and retiree welfare investments in light of the improvement to funding positions in recent years.

Looking forward

Given the impact of geopolitical events on energy markets and inflation in the broad economy, we continue to monitor the Group's risk appetite. We regularly review stress tests and seek to bring our expertise from other sectors of the economy to foster a holistic view of financial markets.

Thérèse Esperdy
Committee Chair

Directors' Remuneration report



Key activities during the year

- Development of 2022 Directors' Remuneration Policy
- Stakeholder consultation
- Incorporation of portfolio transactions into remuneration
- New members and transition of the Committee

The Committee is made up of four independent Non-executive Directors

Composition and Committee attendance:

Committee members	Attendance
Ian Livingston ¹ ◆	4/4
Martha Wyrsh ²	3/4
Jonathan Dawson	7/7
Amanda Mesler	4/4
Former Committee members	Attendance
Mark Williamson ³	5/5
Earl Shipp ²	2/3
Jonathan Silver ²	3/3

◆ Committee Chair

1. Ian Livingston joined the Committee effective 1 August 2021 and became Committee Chair effective 1 January 2022.
2. Martha Wyrsh was appointed to the Committee and Earl Shipp and Jonathan Silver stepped down from the Committee effective 1 September 2021.
3. Mark Williamson stepped down from the Board effective 31 December 2021.

Dear shareholders,

This is my first letter since becoming Chair in January 2022. Firstly, I would like to thank my predecessor Jonathan Dawson for his strong stewardship of the Remuneration Committee over the last nine years and all his help in ensuring a smooth transition of the Chair.

This year has presented a full agenda for the Board and Remuneration Committee. An ambitious business plan to deliver against the backdrop of an increasingly dynamic and demanding external context presented several important considerations for remuneration, particularly in the context of the new Remuneration Policy.

With the COVID-19 crisis a persistent and dominant theme at the start of the year, the Company maintained its position of no employees furloughed, no compulsory redundancies, and no pay reductions.

In November 2021, the world turned its attention to COP26 and the necessity and urgency of a net zero future for all intensified – further underscoring the importance of the Company's Climate Transition Plan and net zero strategy, a key area we focused on in our Directors' Remuneration Policy review this year.

In the final months of the financial year, the effects of higher gas prices, exacerbated by the tragic world events in Ukraine, presented serious affordability challenges for both consumers and businesses. The recent announcement of the early return of £200 million of interconnector revenue to UK consumers over the next two years and a plan to deliver £400 million of sustainable cost efficiencies per annum by 2024, with £140 million delivered to-date, demonstrate the Company's commitment to doing its part to support and enable a more affordable energy future for consumers.

Despite these challenges, the Company delivered strong operational performance this year, reflecting substantial investment and a focus on delivering a clean, fair, and affordable energy future.

In March 2021, the Company announced the acquisition of WPD, the UK's largest electricity distribution business, and the sale of our US Rhode Island business. In March 2022, the Company announced the sale of a 60% equity stake in the UK Gas Transmission business. These transactions are a significant evolution of the Group's strategy and a major pivot towards electricity. The impact of the portfolio changes on financial results and performance outturns for the year are shown in greater detail in the implementation section of our remuneration report.

This year also presented the opportunity to review our Directors' Remuneration Policy (last approved in 2019) and examine how it might evolve. As we undertook this review, we sought to ensure that the best interests of all of our stakeholders today and over the next few years are properly addressed.

To do this, we set out to answer several key questions:

- What are the right performance measures that clearly link the Company's performance and long-term strategy to value creation?
- How can we better reflect the strategic importance of the Company's net zero strategy in remuneration?
- How can we create flexibility given the increasingly dynamic external context?

Over the last several months, the Committee and I have valued the engagement and collaboration of many of our major shareholders. The key elements of our new Remuneration Policy are summarised on page 113 and details are available on pages 124 – 128. Our Remuneration Policy proposal will be subject to a binding vote at the 2022 AGM.

Our Directors' Remuneration 2021/22 report is structured to cover three key areas:

- 1) Remuneration at a glance
- 2) 2021/22 implementation report
- 3) 2022 Directors' Remuneration Policy and implementation

Performance and remuneration outcomes during the year

Salary, pension and benefits

Our review of Executive Directors' salaries this year considered external market factors alongside wider workforce pay increases. The Committee has awarded salary increases of 3.75% to John Pettigrew and 6.5% to Andy Agg, both effective 1 July 2022. These changes are compared to an average increase of 4% across the UK wider workforce.

Our previous Directors' Remuneration Report (DRR) disclosed a three year plan to bring Andy Agg's base salary to a level broadly equal to the market median for his role. Andy's increase this year is the last installment to align his base pay.

As set out in our DRR last year, we acknowledged expectations from our shareholders to align Executive Directors' pension contribution rates with the majority of the UK wider workforce and have set out an approach to progressively do so. To that end, the pension allowances of John Pettigrew and Andy Agg were reduced to 12% of salary as of 1 April 2022, in line with pension contribution levels in the UK wider workforce, representing a material reduction in their fixed remuneration levels.

Annual Performance Plan (APP)

The APP for 2021/22 was based on financial performance measures (60%), operational measures (20%) and individual objectives (20%) that reflect key business and operational performance goals.

Financial performance (60%)

The Company has again had a successful year, delivering strong financial results while investing in the net zero energy transition. In parallel, we saw the solid execution of a complex set of portfolio transactions to integrate WPD, progress on the agreement to sell the US Rhode Island business, and the sale of a majority stake in the UK Gas Transmission business.

Formulaic outturns from the financial portion of the APP were 89.0% of the maximum based on achievement of 78.0% of maximum for Group Underlying EPS and 100% of maximum for Group RoE. APP outcomes are determined by financial results, with technical adjustments to targets including currency adjustments, unbudgeted pension costs and scrip dividend dilution, all in line with past practice.

Operational performance (20%)

The Committee allocated 10% of the operational portion of the 2021/22 APP to ensure strong execution of the portfolio transactions and a focus on value delivery for shareholders. Over the year, we announced the sale of a 60% equity stake in the UK Gas Transmission business, effectively managed regulatory and legal processes, and demonstrated solid progress on the initial integration of WPD into the Group. In this context, the Committee has set the performance outturn for the transactions at 10 out of 12 which is 83.33% of the maximum.

ESG measures make up the remaining 10% of the operational portion of the 2021/22 APP. These measures reflect quantifiable environmental emissions and diversity targets aligned to key commitments set out in our RBC. The outturn for the ESG portion of the APP was 6 out of 8 which equates to 75% of the maximum, reflecting solid delivery of SF₆, CO₂ and methane emission reductions, and progress on DEI goals.

Individual objectives (20%)

Performance against individual objectives resulted in outturns of 80% and 85% of the maximum for John Pettigrew and Andy Agg respectively.

Taking all the elements of performance together, the overall APP awards to the Executive Directors on the Board on 31 March 2022 were 85.2% of the maximum for John Pettigrew and 86.2% of the maximum for Andy Agg.

The details of the 2021/22 APP are further outlined on pages 114 – 116.

In reaching its overall decisions on the APP, the Committee considered the strong performance and delivery throughout the year across financial, operational, and individual objectives and determined no discretion was required to the APP formulaic outcome.

Long-Term Performance Plan (LTPP)

The measurement period of the 2019 LTPP ended on 31 March 2022 and consisted of two measures – Group Value Growth and Group RoE. As discussed in last year's report, the weighting of performance measures for the 2019 LTPP is one third Group RoE and two thirds Group Value Growth.

The formulaic vesting outcome of the 2019 LTPP was 74.22% of the maximum. The Committee reviewed whether there were any factors which might cause it to reduce the vesting levels and concluded after careful consideration that the vesting levels fairly reflected business performance and shareholder experience over the performance period.

As communicated in our DRR last year, we took the decision, given the timing and complexity of the portfolio transactions, to disclose the performance targets for the 2021 LTPP in this year's report. Note the 2021 LTPP award reverts to equal weighting of Group RoE and Group Value Growth performance measures. More details are set out on page 117.

Single figure and shareholding

The 2021/22 total remuneration single figures for John Pettigrew and Andy Agg are £6.5 million and £3.5 million respectively. These outcomes reflect strong, consistent short-term annual performance delivery in 2021/22 and longer-term value creation. The 2019 LTPP outcome makes up nearly £4 million of the overall single figure for John Pettigrew and nearly £2 million for Andy Agg. The value of the 2019 LTPP award is driven by the material share price growth of over 30% over the three-year performance period which in addition to dividends resulted in a total shareholder return (TSR) of 52%. These outcomes also reflect the heavy weighting on long-term share-based pay in our reward structure.

In last year's DRR, we set out an intent to review our post-employment shareholding requirement. As part of our Policy review, the Committee has concluded no changes are required. This decision considers an in-employment shareholding requirement (CEO: 500% of salary and other Executive Directors: 400% of salary) which is at the top end of market practice, and a post-employment shareholding requirement (200% of salary), which is in line with market practice. The Committee felt strongly it would be in the interest of shareholders to preserve the Executive Directors' shareholding requirements levels to ensure strong alignment with the shareholder experience.

Our 2022 Policy renewal

During the year, the Committee conducted a review of the Executive Directors' Remuneration Policy, considering:

- 1) alignment to our business strategy and wider stakeholders (incentive measures and target-setting);
- 2) alignment to our talent strategy (quantum and market practice); and
- 3) corporate governance requirements.

Having discussed these proposals with a number of our shareholders and governance bodies, the Committee proposes to make the following key changes to the Remuneration Policy, subject to their approval by shareholders at the 2022 AGM.

Financial and operational performance measures:

- Retain Group RoE in both the APP and LTPP to ensure the efficiency of annual operational delivery and the quality and sustainability of long-term shareholder value creation.
- Replace Group Value Growth in our LTPP with a three-year cumulative Underlying EPS measure. We believe a more recognised and commonly used measure will simplify remuneration and enhance transparency for both shareholders and employees, and create strong alignment to the Company's investor proposition.
- Retain an in-year earnings measure – i.e. Underlying EPS in our APP to ensure we continue to incentivise and reward strong operational delivery.

Whilst we recognise our short-term (APP) and long-term (LTPP) financial measures are similar, we believe these are the right measures to support delivery of the business strategy and the resultant creation of shareholder value.

The combination of annual and long-term earnings and returns measures act together to incentivise strong operational delivery in-year, together with long-term sustainable growth. As such, financial measures have been designed to incentivise different elements of performance in the short-term (APP) and the long-term (LTPP). See pages 129 – 130 for a further overview of our financial performance measures for 2022/23.

Environmental, Social and Governance

Our 2022 Policy expands the focus of ESG and incorporates further measures aligned to targets set out in our RBC.

- Broaden and simplify ESG measures in the APP to reflect key elements of our responsible business strategy – customers, colleagues and DEI.
- Introduce net zero transition measures aligned to:
 - i) quantitative reductions in our Scope 1 emissions; and
 - ii) the enablement of the net zero transition.

Directors' Remuneration report continued

Finally, we recognise the value of some flexibility in the Policy to better adapt to business and market changes. As such, our new Policy provides greater flexibility to:

- enable the Committee to set appropriate financial, strategic, and ESG measures and weightings in respect of each APP/LTPP award; and
- provide for the possibility of a one-year additional maximum incentive level of up to 50%, to be used only in exceptional circumstances (e.g. recruitment).

No material changes would be made to performance measures without prior consultation with major shareholders.

Other matters

When taking remuneration decisions in relation to Executive Directors, the Committee takes into consideration remuneration data across the industry (through market benchmarking) and our wider workforce (e.g. CEO pay ratio, gender and ethnic pay gap data, and colleagues' views on executive pay) to ensure decisions are fair, equitable, and aligned to performance in line with the Company's values.

Fair and equitable reward is at the heart of National Grid's values. Within the UK, National Grid continues to be an accredited real living wage employer by the Living Wage Foundation. Our UK mean gender base pay gap of -1.6% (median of 2.4%) has shown a strong trend since 2018 in closing the pay gap between genders working in comparable roles. Across the US, our mean gender base pay gap continues to improve from 13.5% in 2021 to 12.6% this year. Additional gender and ethnic pay gap data is reported in our Responsible Business Report (RBR).

Payment to past Directors

Nicola Shaw stood down from the Board on 26 July 2021 and stayed with the Company until after the conclusion of the R110-T2 CMA appeal process and continued as Chair of the Company's subsidiaries, National Grid Electricity Transmission plc and National Grid Gas plc. She was deemed to be a good leaver given her overall long-term strong performance and contribution to the business. She remained in active employment until 31 October 2021, after which she was not eligible for 2021/22 APP and received salary and benefits until her final employment date of 30 April 2022, as per the terms of her contract. Her APP was pro-rated for her period of active employment for 2021/22. Her 2019 LTPP will vest at the normal vesting date in July 2022, subject to performance conditions and is pro-rated for time served to the final employment date of 30 April 2022, in accordance with the plan rules.

Details of Nicola Shaw's remuneration in relation to the period 1 April 2021 to 26 July 2021 (qualifying service as an Executive Director) and 27 July 2021 to 31 March 2022, are presented in the Single Total Figure of Remuneration table on page 114. All payments are in accordance with her service agreement, the Directors' Remuneration Policy and in line with our June 2021 [Corporate Governance disclosure](#).

Conclusion

On behalf of the Committee, I would like to thank shareholders for their input and engagement this year. We continue to aim to maintain an open dialogue on remuneration matters and welcome your further comments and feedback. We respectfully ask for your support at the forthcoming AGM.



Lord Ian Livingston
Committee Chair

Remuneration at a glance – 2021/22

Our 'At a glance' highlights the performance and remuneration outcomes for our Executive Directors for the year ended 31 March 2022. Further detail is provided in the Statement of implementation of Remuneration Policy in 2021/22.

Policy summary (adopted 2019)		Outcomes for 2021/22																									
Salary	<p>Target mid-market salary levels against:</p> <ul style="list-style-type: none"> • FTSE 11 – 40 for UK-based Executive Directors • US general industry and US energy services companies with similar revenue for US-based Executive Directors 	<ul style="list-style-type: none"> • John Pettigrew's salary increased by 2.3% to £1,053,000 as of 1 July 2021 in line with wider workforce increases • Andy Agg's salary increased by 6.5% to £675,000 as of 1 July 2021 reflecting a previously communicated progressive increase to continue to align his salary with the market rate for his role 																									
Pension and benefits	<p>Provide market competitive reward to assist in the attraction and retention of talent:</p> <ul style="list-style-type: none"> • Eligible to participate in defined contribution plan (or defined benefit if already a member). • From April 2022, all UK Executive Directors' pension contributions are 12% of base salary in line with levels across the UK-based workforce. 	<ul style="list-style-type: none"> • John Pettigrew's cash allowance was 23.4% of salary for 2021/22 (compared with 26.7% in 2020/21); reducing to 12% on 1 April 2022 • Andy Agg's cash allowance was 20% of salary for 2021/22; reducing to 12% on 1 April 2022 • Other benefits remain unchanged 																									
Annual Performance Plan	<p>Incentivise and reward achievement of annual financial, operational, and individual performance:</p> <ul style="list-style-type: none"> • Maximum opportunity is 125% of salary • 50% paid in cash • 50% paid in shares which must be retained for at least two years or until the shareholding requirement is met, if later • Subject to both malus and clawback 	<p>2021/22 Annual Performance Plan</p> <p>Performance measures (% weighting)</p> <table border="1"> <tr> <td>Financial (60%)</td> <td></td> <td>89.00%</td> </tr> <tr> <td>Operational (20%)</td> <td></td> <td>79.17%</td> </tr> <tr> <td>Individual – John Pettigrew (20%)</td> <td></td> <td>80.00%</td> </tr> <tr> <td>Individual – Andy Agg (20%)</td> <td></td> <td>85.00%</td> </tr> </table> <p>APP outcome</p> <table border="1"> <thead> <tr> <th></th> <th>% of Maximum</th> <th>Actual (£'000s)</th> <th>Maximum (£'000s)</th> </tr> </thead> <tbody> <tr> <td>John Pettigrew</td> <td>85.2%</td> <td>£1,116</td> <td>£1,309</td> </tr> <tr> <td>Andy Agg</td> <td>86.2%</td> <td>£717</td> <td>£831</td> </tr> </tbody> </table>		Financial (60%)		89.00%	Operational (20%)		79.17%	Individual – John Pettigrew (20%)		80.00%	Individual – Andy Agg (20%)		85.00%		% of Maximum	Actual (£'000s)	Maximum (£'000s)	John Pettigrew	85.2%	£1,116	£1,309	Andy Agg	86.2%	£717	£831
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Andy Agg	86.2%	£717	£831																								
Long-Term Performance Plan	<p>Incentivise long-term business performance and align reward to our strategy:</p> <ul style="list-style-type: none"> • Maximum award level is 350% of salary for CEO and 300% for other Executive Directors • Vesting is subject to long-term performance conditions • Shares which must be retained for at least two years following vesting or until the shareholding requirement is met, if later • Subject to both malus and clawback 	<p>2019 Long-Term Performance Plan</p> <p>Performance measures (% weighting)</p> <table border="1"> <tr> <td>Group Value Growth (66.67%)</td> <td></td> <td>100.00%</td> </tr> <tr> <td>Group RoE (33.33%)</td> <td></td> <td>22.67%</td> </tr> </table> <p>LTTP outcome</p> <table border="1"> <thead> <tr> <th></th> <th>% of Maximum</th> <th>Actual (£'000s)</th> <th>Maximum (£'000s)</th> </tr> </thead> <tbody> <tr> <td>John Pettigrew</td> <td>74.22%</td> <td>£3,997</td> <td>£5,386</td> </tr> <tr> <td>Andy Agg</td> <td>74.22%</td> <td>£1,980</td> <td>£2,668</td> </tr> </tbody> </table>		Group Value Growth (66.67%)		100.00%	Group RoE (33.33%)		22.67%		% of Maximum	Actual (£'000s)	Maximum (£'000s)	John Pettigrew	74.22%	£3,997	£5,386	Andy Agg	74.22%	£1,980	£2,668						
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John Pettigrew	74.22%	£3,997	£5,386																								
Andy Agg	74.22%	£1,980	£2,668																								
Shareholding requirements	<p>Create strong alignment with shareholder experience:</p> <ul style="list-style-type: none"> • 500% of salary for CEO • 400% of salary for other Executive Directors • Post-employment shareholding requirement of 200% of salary for two years <ol style="list-style-type: none"> 1. Represents beneficially owned shares as well as shares held in trust as part of the APP deferred share awards. 2. Represents the 2020 and 2021 LTTP awards subject to ongoing performance. 3. Represents LTTP shares subject to holding period plus shares held as part of the Sharesave scheme, if any. 	<table border="1"> <tr> <td>John Pettigrew</td> <td></td> <td>1,097%</td> <td>838%</td> <td>455%</td> </tr> <tr> <td>Andy Agg</td> <td></td> <td>353%</td> <td>704%</td> <td>355%</td> </tr> </table> <p>0% 500% 1,000% 1,500% 2,000% 2,500%</p> <p> </p> <ul style="list-style-type: none"> ■ Shareholding requirement ■ Shares counting towards shareholding requirement¹ ■ Unvested subject to performance² ■ Shares subject to continued employment³ <p>Andy Agg is expected to meet his shareholding requirement next year.</p>		John Pettigrew		1,097%	838%	455%	Andy Agg		353%	704%	355%														
John Pettigrew		1,097%	838%	455%																							
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Note As noted in the Chair letter (payment to past Directors), Nicola Shaw stood down from her role as Executive Director on 26 July 2021. She remained in active employment until 31 October 2021, after which she was not eligible for 2021/22 APP and received salary and benefits until her final employment date of 30 April 2022 as per the terms of her contract. Details of Nicola's remuneration in relation to the period 1 April 2021 to 26 July 2021 (qualifying service as an Executive Director) and 27 July 2021 to 31 March 2022, are presented in the Single Total Figure of Remuneration table on page 114.

Directors' Remuneration Report continued

Remuneration at a glance – 2021/22 continued

Single total figure of remuneration for 2021/22

A comparison of the 2021/22 single total figure of remuneration, with the maximum remuneration if variable pay had vested in full, is set out below.



Notes: Maximum total figure of remuneration for 2020/21 for John Pettigrew was £6.557 million and £2.625 million for Andy Agg.

The 2021/22 single total figures of remuneration for John Pettigrew and Andy Agg are £6.506 million and £3.517 million respectively. These outcomes reflect strong annual performance delivery in 2021/22 and longer-term value creation as evidenced in the 2019 LTPP outcome. The single total figures of remuneration are in large driven by the heavy weighting on long-term share awards which make up to two-thirds of total remuneration, and nearly 80% of variable pay. The 2019 LTPP performance is driven in part by the impact of share price growth of 31.6%, yielding a Total Shareholder Return (TSR) of 52% over the three-year performance period in addition to long-term business performance delivery.

The 2021/22 total single figures represent an achievement of 79.4% for John Pettigrew and 75.7% for Andy Agg of the total maximum opportunity for 2021/22. This is line with last year's outcomes which were 81.8% for John Pettigrew and 83.9% for Andy Agg of the total maximum opportunity for 2020/21.

Alignment of remuneration with our business strategy

We align our performance linked elements of remuneration (APP and LTPP) through our strategic priorities, our RBC commitments, and our vision of a clean, fair and affordable energy future.

<p>Our vision and values</p> <p>Our vision is to be at the heart of a clean, fair and affordable energy future.</p> <p>Every day we do the right thing, find a better way, and make it happen.</p>	<p>Our strategic priorities</p> <ul style="list-style-type: none">  Enable the energy transition for all  Grow our organisational capability  Deliver for customers efficiently  Empower colleagues for great performance 	<p>Our RBC commitments</p> <ul style="list-style-type: none">  The environment  Our people  Our communities  The economy  Our governance
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Key principles of our remuneration strategy

- Reward delivery of the Group's strategy in a matter that is simple, transparent, and aligned to shareholders' interests
- Attract, motivate, and retain senior executives with market-competitive reward
- Align performance measures to the way National Grid earns its returns for shareholders, with targets set to incentivise stretching financial and operational performance in line with shareholder expectations
- Reflect and underpin the Company's vision, values, and contribution to society

How we achieve this in practice

- Alignment of APP and LTPP performance measures to core financial and non-financial KPIs
- Heavy weighting towards share-based long-term pay to reflect the nature and duration of National Grid's businesses and asset lives
- A mandatory two-year holding period for APP share awards and vested LTPP awards
- A very high minimum shareholding requirement for senior executives (500% for the CEO – equivalent to nine times the after-tax salary)
- A post-employment shareholding required for all senior executives

Our 2022 Remuneration Policies are aligned to our business strategy

<p> Enable the energy transition for all</p> <p>Addition of net zero measures in LTPP aligned to commitment set out in our RBC</p>	<p> Deliver for customers efficiently</p> <p>Financial measures strongly aligned to incentivise operational excellence and long-term value creation</p>	<p> Grow our organisational capability</p> <p>Increased flexibility to better adapt measures to align to critical priorities that underpin short/longer-term performance</p>	<p> Empower colleagues for great performance</p> <p>Emphasis on Company culture and DEI in APP</p>
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Remuneration Policy 2022 overview

Our proposed Remuneration Policy seeks to ensure strong alignment with National Grid's strategic priorities and to measure the success of management in achieving key short-and long-term financial, operational, and ESG objectives. The key elements of our Policy and the implementation for 2022/23 are set out below:

- ESG and, in particular, the energy transition, is at the heart of our strategic priorities. Our Policy expands the focus on ESG measures in the APP and incorporates further measures in the LTPP aligned to targets set out in our RBC.
- The replacement of Group Value Growth with a cumulative Underlying EPS measure in the LTPP creates a simpler and transparent measure of performance aligned to measure long-term value creation together with Group RoE.
- Flexibility in the Policy to adapt to the changing nature of the business and enable the attraction, retention, and incentivisation of talent in an increasingly competitive market.

	Proposed Policy changes (2022)	Implementation in 2022/23
Salary	<ul style="list-style-type: none"> • No change 	<ul style="list-style-type: none"> • John Pettigrew's salary will increase by 3.75% to £1,092,500 – below the average increase of the wider workforce at 4% • Andy Agg's salary will increase by 6.5% to £719,000 – in line with previously communicated intention to align his salary with the market rate over a multi-year period subject to performance and progression in the role
Pension and benefits	<ul style="list-style-type: none"> • All new and existing UK-based Executive Directors will receive pension contributions of up to 12% of base salary for the defined contribution (DC) scheme or cash in lieu, in line with the level for new joiners across the UK wider workforce 	<ul style="list-style-type: none"> • John Pettigrew's and Andy Agg's pension cash allowance will be 12% from 1 April 2022
Annual Performance Plan (APP)	<ul style="list-style-type: none"> • No change 	<ul style="list-style-type: none"> • Proposed measures for 2022/23: <ul style="list-style-type: none"> – Group RoE (35%) – Underlying EPS (35%) – Operational measures – Customer, Colleagues, Diversity (15%) – Individual objectives (15%)
Long-Term Performance Plan	<ul style="list-style-type: none"> • No change to opportunity levels, vesting period and holding period • Financial measures to comprise at least 60% of the LTPP; introduction of an ESG measure expected to make up 20% of the LTPP • Flexibility to set a mix of financial, strategic and ESG measures and weightings every year • In the event of future proposals to make material changes to measures/weightings, the Committee will engage with shareholders as appropriate 	<ul style="list-style-type: none"> • Proposed measures for 2022/23: <ul style="list-style-type: none"> – Cumulative three-year Underlying EPS (40%) – Group RoE (40%) – Net zero transition measures (20%)
Shareholding requirements	<ul style="list-style-type: none"> • No change 	
Malus and Clawback	<ul style="list-style-type: none"> • Enhanced wording to reflect the corporate governance changes and market practice 	
NED fees	<ul style="list-style-type: none"> • Simplified structure to have one standard base fee for US and UK based NEDs • Provides flexibility to reflect additional responsibilities where these are material to the roles 	<ul style="list-style-type: none"> • Alignment of NED fees to market rates (see page 131)

In addition to the above, the proposed Policy also provides, in exceptional circumstance only (such as recruitment), flexibility to award up to 50% of salary in addition to the normal policy maximum across APP/LTPP for one year only.

Directors' Remuneration Report continued

Statement of implementation of Remuneration Policy in 2021/22

Content contained within a blue box indicates that all the information in the panel is audited.

2021/22 Remuneration Implementation

Single Total Figure of Remuneration – Executive Directors

The following table shows a single total figure in respect of qualifying service for 2021/22, together with comparative figures for 2020/21. All figures shown as £'000's:

	John Pettigrew		Andy Agg		Nicola Shaw ¹			
	2022	2021	2022	2021	qualifying service as Executive Director – 1 April '21 to 26 July '21	27 July '21 to 31 March '22	2022 (Total)	2021
Salary	1,047	1,029	665	624	181	391	571	562
Benefits in kind	101	110	22	32	4	14	18	15
Pension	245	275	133	125	42	91	134	150
Total fixed pay	1,393	1,414	820	781	227	496	723	727
APP	1,116	1,035	717	618	359	refer to APP note	359	537
LTPP	3,997	2,918	1,980	805	1,765	refer to LTPP note	1,765	1,364
Total variable pay	5,113	3,953	2,697	1,423	2,124	–	2,124	1,901
Total remuneration	6,506	5,367	3,517	2,204	2,351	496	2,847	2,628

Notes:

1. Nicola Shaw stood down from the Board on 26 July 2021 and stayed with the Company until after the conclusion of the RIIO-T2 CMA appeal process and continued as Chair of the Company's subsidiaries, National Grid Electricity Transmission plc and National Grid Gas plc. She remained in active employment until 31 October 2021, after which she was not eligible for the 2021/22 APP and received salary and benefits until her final employment date of 30 April 2022 as per the terms of her contract. For reporting purposes, we have presented the complete APP and LTPP amount in the qualifying service column. Please refer to the APP note below for reference amounts for the respective period.

Salary: As of 1 July 2021, John Pettigrew and Nicola Shaw were each awarded a salary increase of 2.3% in line with the wider workforce increase. Andy Agg was awarded an increase of 6.5% as part of a multi-year plan to progressively align his salary with the market rate for his role since his appointment in January 2019.

Benefits in kind: Benefits in kind (BIK) include private medical insurance, life assurance, a fully expensed car or cash alternative and the use of a car and a driver when required. For John Pettigrew, the use of a car and driver amounted to approximately £85,500 for 2021/22 (and approximately £89,000 for 2020/21). There were no Sharesave options granted to any Executive Directors during 2021/22.

Pension: Pension contributions/cash in lieu for John Pettigrew and Nicola Shaw are 23.4% of salary for 2021/22 and 20% of salary for Andy Agg. Contributions will fall to 12% of salary for all Executive Directors from 1 April 2022.

APP: Nicola Shaw's APP is pro-rated for her period of active employment for 2021/22, i.e. 1 April 2021 to 31 October 2021. For reference, the pro-rated APP for the qualifying service as an Executive Director (1 April 2021 to 26 July 2021) is 55% of the total amount (i.e. circa £197,000 of the total amount of £359,000) and remaining 45% (i.e. circa £162,000 of the total amount of £359,000) for the period 27 July 2021 to 31 October 2021. Details on her financial, operational and individual objective assessment can be found on page 115 – 116.

LTPP: The 2019 LTPP is due to vest in July 2022. The average share price over the three months from 1 January 2022 to 31 March 2022 of 1,098.09 pence has been applied and estimated dividend equivalents are included. The 2020/21 LTPP figures have been restated to reflect the actual share price on vesting and all dividend equivalent shares. As the vesting share price of 930.43 pence was higher versus the estimate of 855.04 pence (and the additional dividend equivalent shares added for the dividend with a record date of 4 June 2021 with a dividend rate of 32.16 pence per share), the actual value at vesting was circa £296,000, £82,000 and £138,000 higher than for the estimate published last year for John Pettigrew, Andy Agg and Nicola Shaw, respectively. Nicola Shaw's 2019 LTPP will vest at the normal vesting dates 1 July 2022 subject to performance conditions and is pro-rated for time served to the date of 30 April 2022 in accordance with plan rules.

Impact of share price change: The 2019 LTPP awards were granted on 28 June 2019 with a share price of 834.11 pence. The impact of share price change for the 2019 LTPP, comparing share price at grant versus the average share price for the period 1 January 2022 to 31 March 2022 of 1,098.09 pence, is an increase of 263.98 pence (31.6%) per share compared with an increase of 2.1% for the 2018 LTPP performance period (excluding dividends).

Total pension benefits

Andy Agg, John Pettigrew and Nicola Shaw received a cash allowance in lieu of participation in a pension arrangement. There are no additional benefits on early retirement. The values of these benefits received during this year, are shown in the single total figure of remuneration table.

John Pettigrew has also accrued defined benefit (DB) entitlements; he opted out of the DB scheme on 31 March 2016 with a deferred pension and lump sum payable at his normal retirement date of 26 October 2031. At 31 March 2022, John Pettigrew's accrued DB pension was reduced to £85,409 per annum and his accrued lump sum was £256,225. These figures reflect a permanent change in John Pettigrew's pension entitlements going forward. No additional DB entitlements have been earned over the financial year, other than an increase for price inflation due under the pension scheme rules and legislation. Under the terms of the pension scheme, if John Pettigrew qualifies for ill-health requirements, or is made redundant, a pension may be payable earlier than his normal retirement date. A lump sum death in service benefit is also provided in respect of these DB entitlements.

2021/22 Annual Performance Plan

APP awards reward delivery against annual financial, operational and strategic performance targets and goals. For 2021/22, financial measures represent 60% of the award, operational measures 20%, and individual objectives the remaining 20% of the maximum. Payment of the APP award is made in shares (50% of the award) and cash (50% of the award). Shares (after any sales to pay associated tax) must be retained until the shareholding requirement is met, and in any event for a minimum of two years after receipt.

For financial measures, threshold, target and stretch performance levels are set by the Committee for the performance period and pay out at 0%, 50% and 100% of the maximum calculated on a straight-line basis. Operational measures have been assessed on a four-point scale (not met, partially achieved, achieved and over-achieved) based on quantitative targets set at the beginning of the year by the Committee. Target and stretch performance levels for the individual objectives are also predetermined by the Committee for the performance period, and an assessment of the performance relative to the target and stretch performance levels is made at the end of the performance year on each objective. Executive Directors have a maximum opportunity of 125% of base salary.

APP – Financial performance

The Group delivered strong financial performance in the year whilst also executing a complex set of portfolio transactions. Investment in critical infrastructure remained strong, with capital investment (continuing) of £6.7 billion driving asset growth of 8.7%. The businesses delivered solid earnings and returns, in particular in our UK Electricity and Gas Transmission and Metering businesses. The financial performance outcomes of the 2021/22 APP awards are summarised in the tables below:

Measure	Weighting (% of APP)	Threshold	Target	Stretch	Outcome (% of max)
Group Underlying EPS (pence per share) ^A	30%	72.0	75.0	78.0	78.0%
		76.7			
Group RoE (%) ^A	30%	9.8%	10.2%	10.6%	100.0%
		11.4%			
Total financial outturn					89.0%

^A Denotes an 'alternative performance measure' as described on pages 268 – 279

Notes: Underlying EPS: Technical adjustments have been made to increase the performance range (each of the threshold, target and stretch) by 1.6 pence to reflect the net effect of currency adjustments, US pension assumptions, and scrip issuance. Financial targets were set to include the impacts of the portfolio transactions, specifically the addition of WPD to the Group. Group underlying EPS of 76.7 pence includes 11.4 pence from UK Gas Transmission discontinued operations, and excludes timing and major storm costs as outlined on page 271 in the Financial Results.

Nicola Shaw: The total financial outturn for Nicola was 96.3% of maximum based on performance against equally weighted measures (20% each) of UK RoE (outcome of 100% of max), UK underlying operating profit (outcome of 100% of max) and UK regulated controllable costs (outcome of 88.9% of max). Technical adjustments were applied to UK operating profit for the impact of CPI on revenues. The UK outturn is based on an equal weighting of the UK Electricity Transmission and UK Gas Transmission and Metering businesses.

APP – Operational performance

The operational measures (20%) of the 2021/22 APP were weighted equally between two key objectives – 1) effective completion of the Group portfolio transactions (10%); and 2) quantifiable ESG measures to reduce factors relating to Scope 1 direct carbon emissions and improve employee diversity.

Operational measures were assessed on a four-point scale (not met, partially achieved, achieved and over-achieved) based on quantifiable targets where possible and qualitative outcomes to reflect a balanced assessment of performance. All ESG measures were evaluated against quantifiable targets which are aligned to our RBC commitments.

Measure	Details	Assessment	Outcome
Transactions (10%)	Effective management to the satisfaction of the Board: <ul style="list-style-type: none"> WPD transaction Sale and separation of UK GT Separation of RI 	WPD: New operating model design, embedded culture and values, maintained business continuity and performance.	4 Over-achieved
		UK GT: Successfully secured sale of 60% stake of the business, alongside strong business performance delivery.	3 Achieved
		RI: Well-executed separation process, plans in place to mitigate or offset all stranded costs, transaction to complete in 2022/23	3 Achieved
Outcome – Transactions			(10/12) 83.33%
Group wide Scope 1 carbon emissions (5%)	Reduce Group-wide CO ₂ impact from: <ul style="list-style-type: none"> Vehicle fleet (68 Light Duty Vehicles (LDVs) converted) Business air travel (<11,961,416 airmiles or 5 KT CO₂e) 	Met and/or exceeded performance targets for four out of the five emissions measures most notably: <ul style="list-style-type: none"> Business air travel (5,553,932 airmiles or 1.2 KT CO₂e) SF₆ emissions (71 KT CO₂e reduction) Leak prone pipe replacement (10.853 KT CO₂e avoided) Compressor cab venting emissions reduction (18 KT CO₂e) 	3 Achieved
	Reduce network carbon emissions from: <ul style="list-style-type: none"> SF₆ emissions (21.8 KT CO₂e reduction) Leak prone pipe (10.811 KT CO₂e avoided) Emission leaks and compressor cab venting (4.4 KT CO₂e reduction) 	<ul style="list-style-type: none"> Fleet emission reductions just behind target measure with 62 LDVs converted 	Achieved
Diversity (5%)	Deliver sustainable improvement in gender and ethnic diversity in line with key targets in our RBC <ul style="list-style-type: none"> New hire rates Promotion rates Leaver rates Strategic leadership group (SLG), (top ~110 leaders) New talent diversity 	Improved diversity in six of the eight Group-wide measures most notably: <ul style="list-style-type: none"> Exceeded new hire targets (28% and 30%) for gender and ethnicity Improved SLG diversity to 48% (target of 46%) Increased new talent diversity to 57.7% (target of 50%) Gender and ethnic leaver rates fell short of targets and remain a further focus area for 2022/23 	3 Achieved
		Progress underpinned by robust delivery of a Group-wide DEI strategy.	
Outcome – ESG			(6/8) 75.00%
Combined operational outcome			79.17%

Notes: Diversity is defined as colleagues who have identified themselves of varying gender, sexual orientation, disability, under-represented racial and/or ethnic group.

Directors' Remuneration Report continued

Statement of implementation of Remuneration Policy in 2021/22 continued

APP – Individual objectives

In addition to the financial and operational goals previously discussed, the Board approves annual individual performance goals for the Executive Directors in line with key operational and strategic priorities. Performance is assessed at the end of the financial year by the Board and Remuneration Committee. The CEO completed a self-evaluation which was shared with members of the Board for their comments. The Chair compiled these comments, and based on these comments, proposed a scoring for each of the goals. The CEO undertook the same process for the other Executive Directors and presented his recommendations to the Committee in May 2022. The table below sets out the 2021/22 individual objectives together with associated performance commentaries and the Committee's assessment of the performance outcome for each of the Executive Directors:

Individual objectives and performance summary – John Pettigrew	Outcome
Execute on the announced portfolio repositioning and deliver results on organisational streamlining <ul style="list-style-type: none"> Successful execution of the strategic pivot to electricity; purchase of WPD Effective management of divestitures and transition of WPD into the Group whilst ensuring solid business performance/continuity Progression and development of the Company's long-term strategic blueprint 	
Demonstrate substantial progress in modernising how the Group works, enhancing a culture of accountability <ul style="list-style-type: none"> Demonstrated progress in shifting the Group's culture, with a strong focus on DEI and positive employee satisfaction results Made progress to improve bench strength of senior leadership group and Group Executive team 	80%
Raise the level of engagement with the public, communities and government <ul style="list-style-type: none"> COP26 and Capital Markets Day – repositioned National Grid across key stakeholder groups as a critical part of the energy transition Strengthened governmental, public and community relations, and key relationships in particular at the local level 	

Individual objectives and performance summary – Andy Agg	Outcome
Successfully execute the portfolio repositioning <ul style="list-style-type: none"> Effectively managed financing strategy and credit ratings approach for the acquisition of WPD Strong execution of portfolio repositioning; divestment of 60% stake in UK Gas Transmission, 50% stake in St William Homes LLP Successfully ensured the mitigation of all stranded costs resulting from the portfolio transactions 	
Demonstrate progress in the Group-wide and Finance transformation programmes <ul style="list-style-type: none"> Strong leadership across the Group driving in-year delivery and progression of £400 million of cost efficiencies per annum by the end of 2023/24 Delivered solid progress against key transformation milestones, advanced key process and technology enabled efficiencies Improved talent, succession potential, and capabilities within the CFO function 	85%
Deliver enhanced investor engagement programme <ul style="list-style-type: none"> Successfully engaged investors on the five-year investor framework and strategic pivot to electricity with positive feedback/sentiment Increased transparency of our responsible business strategy yielding positive engagement and external ESG company ratings 	

Individual objectives and performance summary – Nicola Shaw	Outcome
Successfully execute on UK businesses priorities <ul style="list-style-type: none"> Effectively managed UK businesses to deliver on track mid-year financial performance for first year of RIIO-T2 Successfully implemented operating model to stand up separate Electricity and Gas Transmission UK businesses 	
Deliver a successful Competition & Markets Authority outcome <ul style="list-style-type: none"> Led process to submit all RIIO-T1 reopeners with Ofgem Managed and executed the CMA process effectively; with a positive result on the out-performance wedge 	65%
Grow National Grid's positioning on the UK's net zero future <ul style="list-style-type: none"> Established East Coast asset investment strategy to facilitate connection of 40+ GW of offshore renewables by 2030 Fostered strong relationships with key stakeholders to lay the groundwork for the development of net zero investment roadmap 	

2019 Long-Term Performance Plan award

The 2019 LTTP that will vest on 1 July 2022 was structured as outlined below in consideration of the transition to RIIO-T2 in the UK during the performance period. The financial measures and weightings of the 2019 LTTP below are the same for all Executive Directors.

- Group RoE over a two-year period (2019/20 – 2020/21) determines one third of the award
- Group Value Growth over the three-year period (2019/20 – 2021/22) determines two thirds of the award

The outturns of the 2019 LTTP reflect solid business performance over the three-year period, and are summarised below:

Performance measure	Weighting	Threshold 20% vesting	Maximum 100% vesting	Actual % of maximum
Group RoE ^A	33.33%	11.0%	12.5%	22.67%
Group Value Growth ^A	66.67%	10.0%	12.0%	100.00%
Overall vesting outcome				74.22%

^A Denotes an 'alternative performance measure' as described on pages 268 – 279

As disclosed in last year's DRR, the Group Value Growth measure in 2019 includes an upward adjustment versus the reported measure to reflect the value added from the sale of the residual interest in the UK Gas Distribution business and to adjust for the revised timing of UK cash tax payments. The Committee decided not to reflect upward adjustments to Group RoE or Group Value Growth for prior years (+0.3% in 2019/20 and +0.2% in 2020/21) resulting from the revisions described in note 1F to the consolidated financial statements in 2020/21 into the 2019 LTTP.

2019 LTPP Vesting

The 2019 LTPP vesting reflects both the final performance outturn and the impact share price and dividends from the time of issue to vesting date. For the 2019 award, the share price appreciation represents a material proportion of the total vesting value. The 2019 LTPP awards were granted on 28 June 2019 with a share price of 834.11 pence. Comparing the share price at grant versus the average share price for the period 1 January 2022 to 31 March 2022 of 1,098.09 pence, yields a share price gain for the 2019 LTPP of 263.9 pence (31.6%) per share in addition to estimated dividend yield of 148.7 pence per share.

The amounts due to vest under the 2019 LTPP for the performance period that ended on 31 March 2022 which are included in the 2021/22 single total figure table on page 114, are shown in the table below. The current share price valuation is an estimate based on the average share price over the three months from 1 January 2022 to 31 March 2022 of 1,098.09 pence and the proposed dividend with record date of 6 June 2022, subject to shareholder approval, is included. The total value of awards vesting and dividend equivalent shares are subject to a two-year holding period.

	Shares awarded	Performance outcome (% of maximum)	Vested shares based on performance	Face value of the award at grant (£'000s)	Share price appreciation (£'000s)	Dividend equivalent shares (£'000s)	Total value (£'000s)
John Pettigrew	431,969	74.22	320,607	2,674	846	477	3,997
Andy Agg	213,999	74.22	158,830	1,325	419	236	1,980
Nicola Shaw ¹	190,739	74.22	141,566	1,181	374	211	1,765

1. Nicola Shaw's 2019 LTPP will vest at the normal vesting date of July 2022 subject to performance conditions. The amount shown under 'Shares awarded' is pro-rated for time served to the termination date of 30 April 2022 in accordance with the plan rules.

Assessment of National Grid shareholder returns

The figure below outlines National Grid plc's 10-year annual TSR performance against the FTSE 100 Index since 31 March 2012 and illustrates the growth in value of a notional £100 holding invested in National Grid on 31 March 2012, compared with the same invested in the FTSE 100 Index. The FTSE 100 Index has been chosen because it is a widely recognised performance benchmark for large companies in the UK and it is a useful reference to assess relative value creation for National Grid shareholders. Over the last 10-year period, National Grid's relative TSR is 194% versus the FTSE 100 at 82% demonstrating sustainable long-term value for our shareholders. Over the more recent three-year performance period for the 2019 LTPP, National Grid's relative TSR was 52% versus the FTSE 100 relative TSR of 13%, which underscores the strong alignment of our Remuneration Policy with the value delivered for our shareholders.

Total Shareholder Return (£)



Data source: Datastream by Refinitiv

Notes: The TSR level shown at 31 March each year is the average of the closing daily TSR levels for the 30-day period up to and including that date. It assumes dividends are reinvested.

2021 Long-Term Performance Plan

2021 LTPP performance conditions

As disclosed in last year's DRR, we reverted to equal weighting for Group RoE and Group Value Growth, measured over the entire three-year performance period, for the 2021 LTPP. Below are the performance ranges for the two measures in the 2021 LTPP. As noted, setting of targets was delayed to enable proper consideration of the portfolio transactions for WPD, UK Gas Transmission, and the US Rhode Island businesses.

Performance measures	Weighting	Threshold 20% vesting	Maximum 100% vesting
Group RoE	50%	9.75%	11.00%
Group Value Growth	50%	9.25%	11.00%

Notes: Vesting between threshold and maximum will be on a straight-line basis. The calculation for the Group RoE measure will reflect the updated methodology from 2021/22 going forward as outlined on page 277 of the Annual Report.

Directors' Remuneration Report continued

Statement of implementation of Remuneration Policy in 2021/22 continued

2021 LTPP (conditional awards) made during the year

The face value of the awards are calculated using the volume weighted average share price at the date of grant. The share price at the date of grant on 28 June 2021 was 924.68 pence. The 2021 LTPP grant will vest on 1 July 2024. The total value of awards vesting and dividend equivalent shares are subject to a two-year holding period following vesting.

	Basis of award (% of base)	Number of shares	Face value (£'000)	Proportion vesting at threshold performance	Performance period end date
John Pettigrew	350%	398,568	£3,686	20%	31 March 2024
Andy Agg	300%	218,993	£2,025	20%	31 March 2024

Statement of Directors' shareholdings and share interests

The Executive Directors are required to build up and hold a shareholding from vested share plan awards. The following table shows the position of each of the Executive Directors in relation with the shareholding requirement and the number of shares owned by the Non-executive Directors, including connected persons. The shareholding is as of 31 March 2022 and the salary used to calculate the value of the shareholding is the gross annual salary as of 31 March 2022.

John Pettigrew continues to meet his shareholding requirement. Andy Agg, who was appointed the CFO in 2019, has not yet met his shareholding requirement and is expected to do so in 2023. The projections assume on-target performance/vesting outcomes. They will not be allowed to sell shares, except for covering associated tax liabilities, until their individual shareholding requirements are met. Non-executive Directors do not have a shareholding requirement.

Further shares have been purchased in each of April and May 2022 on behalf of each of John Pettigrew and Andy Agg via the Share Incentive Plan (an HMRC tax-advantaged all-employee share plan), thereby increasing the beneficial interests by 25 shares (12 in April and 13 in May) for John Pettigrew and 24 shares (12 each in April and May) for Andy Agg. There have been no other changes in Directors' shareholdings between 1 April 2022 and 19 May 2022.

The expected vesting dates for the conditional share awards subject to performance conditions are 1 July 2022, 3 July 2023 and 1 July 2024 for the 2019 LTPP, 2020 LTPP and 2021 LTPP respectively.

Directors	Share ownership requirements (multiple of salary)	Number of shares owned outright (including connected persons)	Value of shares held as a multiple of current salary	Number of options granted under the Sharesave Plan	Conditional share awards subject to performance conditions (LTPP 2019, 2020, and 2021)
Executive Directors					
John Pettigrew	500%	1,052,126	1,097%	4,219	1,235,754
Andy Agg	400%	216,807	353%	4,316	646,787
Non-executive Directors					
Liz Hewitt	-	2,500	-	-	-
Jonathan Dawson	-	45,632	-	-	-
Amanda Mesler	-	1,500	-	-	-
Earl Shipp (ADSs)	-	1,000	-	-	-
Anne Robinson (ADSs)	-	-	-	-	-
Tony Wood	-	-	-	-	-
Martha Wyrsh (ADSs)	-	5,000	-	-	-
Ian Livingston	-	1,838	-	-	-
Jonathan Silver (ADSs)	-	-	-	-	-
Paula Rosput Reynolds (ADSs)	-	2000	-	-	-
Thérèse Esperdy (ADSs)	-	1587	-	-	-

Notes: John Pettigrew: On 31 March 2022, John Pettigrew held 4,219 options granted in previous years under the Sharesave Plan with an exercise price of 711 pence per share and they can, subject to their terms, be exercised at 711 pence per share between 1 April 2025 and 30 September 2025. The number of conditional share awards subject to performance conditions is as follows: 2019 LTPP: 431,969; 2020 LTPP: 405,217; 2021 LTPP: 398,568.

Andy Agg: On 31 March 2022, Andy Agg held 4,316 options granted in previous years under the Sharesave Plan with an exercise price of 695 pence per share and they can, subject to their terms, be exercised at 695 pence per share between 1 April 2026 and 30 September 2026. The number of conditional share awards subject to performance conditions is as follows: 2019 LTPP: 213,999; 2020 LTPP: 213,795; 2021 LTPP: 218,993.

Earl Shipp, Jonathan Silver, Paula Rosput Reynolds, Martha Wyrsh, Anne Robinson and Thérèse Esperdy: Holdings are shown as American Depositary Shares (ADSs). Each ADS represents five ordinary shares.

Post-employment shareholding requirements

Past Executive Directors are required to continue to hold their shares/ADSs in line with our current and proposed Directors' Remuneration Policy.

To enforce this, the Executive Directors have agreed to give permission for the Company to periodically check with its third-party share scheme administrator whether the minimum shareholding requirement is being maintained. The Executive Directors have acknowledged that if they breach their post-employment shareholding requirement for any reason, the Company may enforce at its discretion one or more of the following processes: to request they repay to the Company an amount equivalent in value to the shareholding requirement that has not been met; the Company may withdraw/vary the vesting of any future shares granted under the LTPP; the Company may publish a public statement in a form, as the Company may decide that the Director has failed to comply with the post-employment shareholding requirement. Executive Directors are reminded annually, when employed, of the post-employment shareholding requirement. At termination, the minimum shareholding requirement is confirmed to the Director and checks are made by the Company at the 12-month and 24-month anniversary of leaving and at the financial year-end 31 March to ascertain if their post-employment shareholding requirement has been met.

Nicola Shaw stood down from the Board on 26 July 2021 and remained subject to an in-employment shareholding requirement until her final employment date of 30 April 2022, at which time she will be subject to a post-employment shareholding requirement of 200% of base salary for a period of two years. As of 31 March 2022, Nicola Shaw continues to meet her in-employment shareholding requirement.

Shareholder dilution

The Company has a number of multiple all-employee share plans that provide employees the opportunity to become shareholders. These plans include Sharesave and the Share Incentive Plan (SIP) in the UK and the 401(k) and Employee Stock Purchase Plan in the US.

Where shares may be issued or treasury shares reissued to satisfy incentives, the aggregate dilution resulting from executive share-based incentives will not exceed 5% in any 10-year period. Dilution resulting from all incentives, including all-employee incentives, will not exceed 10% in any 10-year period. The Committee reviews dilution levels against these limits annually and under these limits the Company, as at 31 March 2022, had a headroom of 3.9% and 7.8% respectively.

CEO pay ratio

We have disclosed our CEO pay ratios comparing the CEO single total figure of remuneration to the equivalent pay for the 25th quartile, median, and 75th quartile UK employees (calculated on a full-time equivalent basis), as well as the median Group-wide pay ratio.

CEO Pay Ratios 2021/22 to 2018/19

Year	Method	UK			Group-wide
		25th percentile pay ratio	Median pay ratio	75th percentile pay ratio	Median pay ratio
2021/22	Option A	135:1	105:1	81:1	76:1
2020/21	Option A	104:1	81:1	62:1	54:1
2019/20	Option A	111:1	86:1	66:1	53:1
2018/19 – voluntary	Option A	96:1	76:1	58:1	48:1

Notes: Following the completion of the WPD acquisition in June 2021, this year's CEO pay ratio includes circa 6,600 UK WPD employees in the data set. Salaries as at 31 March 2022 and estimated performance-based annual payments for 2021/22 have been annualised for part-time employees to reflect full-time equivalents. Performance payments have not been further adjusted to compensate where new employees have not completed a full performance year. The comparison with UK employees is specified by the Companies (Miscellaneous Reporting) Regulations 2018 (as amended). US employees represent approximately 56% of our total employees. Our median pay ratio on a Group-wide basis is 76:1, calculated on the same basis as the UK pay ratios and at an exchange rate of \$1.348:£1.

The CEO pay ratio has increased to 105:1 at the UK median. The increase is explained by the increase in the CEO's single total figure of remuneration primarily due to the impact of the 2019 LTPP performance driven in part by the impact of share price growth of 31.6% over the three-year performance period and strong long-term business performance delivery. For reference, the impact of share price change for the 2019 LTPP, comparing share price at grant versus the average share price for the period 1 January 2022 to 31 March 2022 of 1,098.09 pence, for each Executive Director is an increase of 263.98 pence (31.6%) per share excluding the dividend (versus an increase of 2.1% for the 2018 LTPP). This year the 2019 LTPP vesting represents circa 61% (last year 54%) of the CEO's single total figure of remuneration. Excluding estimated 2019 LTPP vesting, our UK median pay ratio is 40:1 (last year 39:1). On a Group basis, the median pay ratio has increased to 76:1. The lower Group median pay ratio reflects the higher level of wages in the regions of the US where we operate as compared with the UK. Nearly 56% of our employees are US-based. Excluding estimated 2019 LTPP vesting, the Group-wide median pay ratio is 29:1.

These results highlight a key feature of our remuneration strategy to weight Executive and senior leadership compensation more heavily towards longer-term performance share based reward. Across the wider workforce, employee compensation is largely focused on in-year annual delivery.

The 2021/22 base pay and total pay including benefits for the CEO versus UK workforce is shown below.

2021/22 Base pay and benefits – CEO, UK wider workforce

Pay and benefits data	CEO remuneration	UK		
		UK employee 25th percentile	UK employee 50th percentile	UK employee 75th percentile
Base salary	£1,047,115	£36,598	£42,054	£55,726
Total pay and benefits	£6,505,511	£48,038	£61,834	£80,297

Directors' Remuneration Report continued

Statement of implementation of Remuneration Policy in 2021/22 continued

Flexibility is provided to adopt one of three methods for calculating the ratios. We have chosen Option A, which is a calculation based on the pay of all UK employees on a full-time equivalent basis, as this option is considered to be more statistically robust. The ratios are based on total pay and benefits inclusive of short-term and long-term incentives applicable for the respective financial year 1 April – 31 March. The reference employees at the 25th, 50th and 75th percentile have been determined by reference to pay and taxable benefits as at the last day of the respective financial year, 31 March, with estimates for the respective APP payouts and performance outcomes of the LTPP and dividend equivalents.

Most employees are eligible for a performance-based annual payment. Our principles for pay setting and progression in our wider workforce are the same as for our executives – mid-market approach to total reward sufficiently competitive to attract and retain high-calibre individuals without over-paying and providing the opportunity for individual development and career progression. The pay ratios reflect how remuneration arrangements differ, as accountability increases for more senior roles within the organisation, and in particular the ratios reflect the weighting towards long-term value creation and alignment with shareholder interests for the CEO.

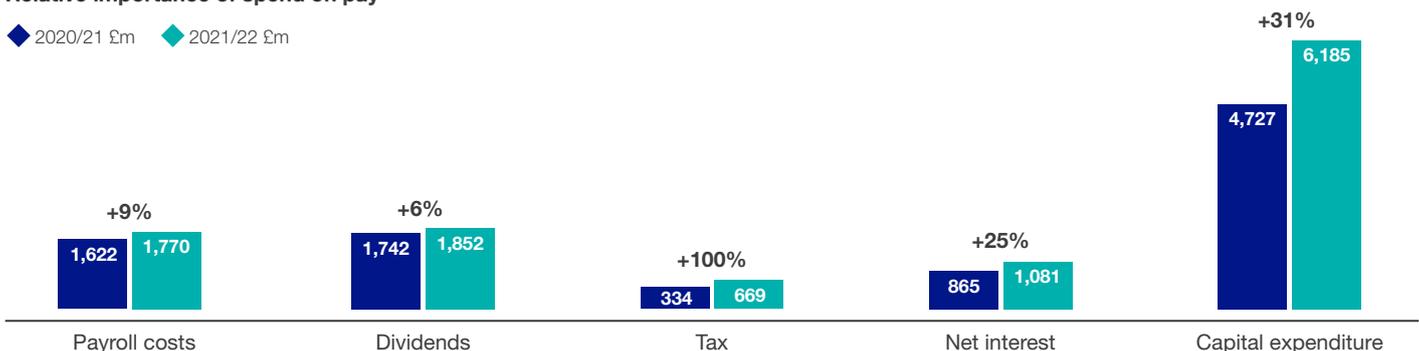
We are satisfied that the median pay ratio reported this year is consistent with our wider pay, reward and progression policies for employees. The median reference employee falls within our collectively bargained employee population and has the opportunity for annual pay increases, annual performance payments and career progression and development opportunities. The CEO received a pay increase of 2.3% in 2021/22 in line with the increase budget awarded across the UK employee population (no increase was granted in 2020/21).

Relative importance of spend on pay

The chart below shows the relative importance of spend on pay compared with other costs and disbursements (dividends, tax, net interest and capital expenditure). Given the capital-intensive nature of our business and the scale of our operations, these costs were chosen as the most relevant measures for comparison purposes. All amounts exclude exceptional items and remeasurements.

Relative importance of spend on pay

◆ 2020/21 £m ◆ 2021/22 £m



Notes:

- The dividend figure for 2020/21 has been restated at £1,742 million (from £1,738 million) to reflect the actual value of dividends paid.
- 2020/21 payroll costs, tax, net interest and capital investment have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation.
- Percentage increase/decrease of the costs between years is shown.

Chief Executive's pay in the last ten financial years

Steve Holliday was CEO throughout the five-year period from 2012/13 to 2015/16. John Pettigrew became CEO on 1 April 2016.

	Steve Holliday				John Pettigrew					
	12/13	13/14	14/15	15/16	16/17	17/18	18/19	19/20	20/21	21/22
Single total figure of remuneration (£'000)	3,170	4,801	4,845	5,151	4,623	3,648	4,651	5,205	5,367	6,506
Single total figure of remuneration including only 2014 LTPP (£'000)					3,931					
APP proportion of maximum awarded	55.65%	77.94%	94.80%	94.60%	73.86%	82.90%	84.20%	70.58%	80.43%	85.20%
PSP/LTPP (proportion of maximum vesting)	25.15%	76.20%	55.81%	63.45%	90.41%	85.20%	84.20%	84.90%	68.00%	74.22%

Notes:

John Pettigrew: Single total figure for 2021/22 is explained in the single total figure of remuneration table for Executive Directors and single total figure for 2020/21 has been restated to reflect actual share price for 2018 LTPP vesting in 2021 and all dividend equivalent shares, consistent with comparative figures shown in this year's single total figure of remuneration table.

2014 LTPP: The 2016/17 single total figure of remuneration includes both the 2013 LTPP award and the 2014 LTPP award due to a change in the vesting period of four years (2013 LTPP) to three years (2014 LTPP).

PSP/LTPP plans: Prior to 2014, LTPP awards were made under a different LTI framework which incorporated a four-year performance period for the RoE element of the awards. The last award under this framework was made in 2013 and was fully vested in 2017. Awards made from 2014 are subject to a three-year performance period. The first of these awards vested in 2017.

Single total figure of remuneration – Non-executive Directors

The following table shows a single total figure in respect of qualifying service for 2021/22, together with comparative figures for 2020/21:

		Fees £'000		Other emoluments £'000		Total £'000	
		2021/22	2020/21	2021/22	2020/21	2021/22	2020/21
Paula Rosput Reynolds		599	21	18	0	616	21
Sir Peter Gershon	Resigned on 31.05.2021	90	540	12	82	102	622
Jonathan Dawson		108	112	3	1	111	113
Thérèse Esperdy		141	142	10	0	151	142
Paul Golby	Resigned on 26.07.2021	33	104	2	1	35	105
Liz Hewitt		113	99	9	0	122	99
Ian Livingston	Appointed on 01.08.2021	66	n/a	1	n/a	67	n/a
Amanda Mesler		93	91	2	0	94	91
Earl Shipp		113	104	7	0	120	104
Jonathan Silver		99	104	9	0	109	104
Mark Williamson	Resigned 31.12.2021	87	122	3	0	90	122
Tony Wood	Appointed on 01.09.2021	48	NA	2	n/a	50	NA
Martha Wyrsh	Appointed on 01.09.2021	56	NA	3	n/a	59	NA
Anne Robinson	Appointed on 19.01.2022	19	NA	0	n/a	19	NA
Total		1,665	1,439	81	84	1,745	1,523

Notes:

Receiving the US-based Board fee: Thérèse Esperdy, Earl Shipp, Jonathan Silver, Anne Robinson and Martha Wyrsh.

Receiving the UK-based Board fee: Jonathan Dawson, Paul Golby, Liz Hewitt, Amanda Mesler, Mark Williamson, Ian Livingston and Tony Wood.

Therese Esperdy: Fees include £25,000 for serving on the National Grid USA Board; she stepped down from the National Grid USA Board on 18 November 2021.

Paula Rosput Reynolds joined the Board on 1 January 2021 as a Non-executive Director and was appointed as Chair of the Board from 31 May 2021. She is not eligible for any benefits.

Other emoluments: In accordance with the Company's expenses policies, Non-executive Directors receive reimbursement for their reasonable expenses for attending Board meetings. In instances where these costs are treated by HMRC as taxable benefits, the Company also meets the associated tax cost to the Non-executive Directors through a PAYE settlement agreement with HMRC and these costs are included in the table above. For 2020/21 due to COVID-19 travel restrictions, most of the NEDs did not incur travel-related expenses.

The total emoluments paid to Executive and Non-executive Directors in the year was £14.2 million (2020/21: £11.7 million).

Percentage change in Remuneration (Executive Directors, Non-executive Directors, employee average)

In line with the revised Shareholder Rights Directive (2019), we have included percentage change in salary/fee, bonus and benefits for each of the Directors compared to prior years. The regulations cover employees of the Parent Company only and not across the Group, and since we have very few people employed by our Parent Company (National Grid plc), we have voluntarily chosen a comparator group of all employees in the UK and the US to provide a representative comparison. In line with the regulations, we shall build this information to display a five-year history.

Executive Directors	2020/21			2021/22		
	Salary	Benefits	Bonus	Salary	Benefits	Bonus
John Pettigrew	1.3%	-4.7%	15.4%	1.7%	-8.8%	7.8%
Andy Agg	4.9%	40.6%	17.7%	6.5%	-31.6%	15.9%
Nicola Shaw	1.3%	1.1%	38.8%	1.7%	18.3%	-33.1%
Non Executive Directors						
Jonathan Dawson	0.5%	37.1%	n/a	-3.0%	417.6%	n/a
Therese Esperdy	0.4%	-100.0%	n/a	-0.8%	n/a	n/a
Sir Peter Gershon	0.5%	-5.5%	n/a	-83.3%	-85.0%	n/a
Paul Golby	0.5%	-87.5%	n/a	-68.5%	213.8%	n/a
Liz Hewitt	334.8%	-100.0%	n/a	14.5%	n/a	n/a
Amanda Mesler	0.5%	-100.0%	n/a	1.6%	n/a	n/a
Paula Rosput Reynolds	n/a	n/a	n/a	2816.8%	n/a	n/a
Earl Shipp	0.5%	-100.0%	n/a	8.6%	n/a	n/a
Jonathan Silver	14.3%	-100.0%	n/a	-4.2%	n/a	n/a
Mark Williamson	-8.6%	-100.0%	n/a	-29.2%	n/a	n/a
Ian Livingston	n/a	n/a	n/a	n/a	n/a	n/a
Tony Wood	n/a	n/a	n/a	n/a	n/a	n/a
Martha Wyrsh	n/a	n/a	n/a	n/a	n/a	n/a
Anne Robinson	n/a	n/a	n/a	n/a	n/a	n/a
Employee median	-8.49%	1.65%	-5.52%	2.8%	6.1%	40%

Note: For Nicola Shaw, the 2021/22 data reflects the salary, benefits and bonus paid for the complete year as presented in the single total figure of remuneration table.

Directors' Remuneration Report continued

Statement of implementation of Remuneration Policy in 2021/22 continued

For 2021/22, the percentage change data for salary/fees reflects that, other than for Andy Agg, the salary/fee increases for Directors were 2.3% in line with the wider workforce increases. For 2020/21, the percentage change data for salary/fees reflects that, other than for Andy Agg, there were no salary/fee increases for Directors. In contrast, the majority of managers and all those covered by trade union agreements were eligible to receive an annual salary increase during 2020/21. The average salary increase budget for the UK and the US employees, subject to performance review, was 2.3% and 2.5% respectively in 2020/21.

Budgets vary for employees covered by collective agreements depending on arrangements agreed with the respective trade unions. The Committee takes account of the general salary increase budgets available for managers/non-unionised employees when reviewing Directors' salaries/fees.

Further alignment between Executive Director pay and arrangements available to the wider workforce is evidenced by the approach that all employees have the opportunity to receive a bonus which is linked to either a combination of individual and Company/business performance measures, or Company/business performance measures only, thus enabling employees as well as the Executive Directors to benefit in the Company's success annually.

Payments for loss of office and payments to past Directors

Nicola Shaw stood down from the Board on 26 July 2021 and stayed with the Company until after the conclusion of the RIIO-T2 CMA appeal process and continued as Chair of the Company's subsidiaries, National Grid Electricity Transmission plc and National Grid Gas plc. She remained in active employment until 31 October 2021, after which she was not eligible for 2021/22 APP and received salary and benefits until her final employment date of 30 April 2022 as per the terms of her contract. Her APP is pro-rated for her period of active employment for 2021/22, i.e. 1 April 2021 to 31 October 2021. Her 2019 LTPP will vest at the normal vesting date of July 2022 subject to performance conditions and is pro-rated for time served to the termination date of 30 April 2022 in accordance with the plan rules.

Details of Nicola's remuneration in relation to the period 1 April 2021 to 26 July 2021 (qualifying service as an Executive Director) and 27 July 2021 to 31 March 2022 is disclosed in the Single Total Figure of Remuneration table on page 114. All payments are in accordance with her service agreement, the Directors' Remuneration Policy (and in line with our June 2021 Corporate Governance disclosure) and subject to applicable tax withholdings.

The Committee agreed to grant good leaver treatment for Nicola's in-flight LTPP awards given her overall long-term strong performance and contribution to the business. Nicola's awards under the 2020 LTPP will be pro-rated for completed months held since the award date until 30 April 2022. These awards will vest at the same time as other participants, subject to performance measured at the vesting date and any discretion the Committee may decide to exercise at the time of vesting, in line with our Directors' Remuneration Policy. These shares will be subject to the two-year post-vesting holding requirement and post-employment shareholding requirement.

There have been no payments made to past Directors during 2021/22.

External appointments and retention of fees

Experience as a board member of another company is considered to be valuable personal development, which in turn is of benefit to the Company. The table below details the Executive Director (at 31 March 2022) who served as non-executive director in other companies during the year ended 31 March 2022:

	Company	Retained fees
John Pettigrew	Rentokil Initial plc	£70,000

Role of Remuneration Committee

The Committee is responsible for recommending to the Board the Remuneration Policy for the Executive Directors, the other members of the Group Executive Committee and the Chair, and for implementing this Policy. The aim is to align the Remuneration Policy to the Company strategy and key business objectives, and ensure it reflects our shareholders', customers' and regulators' interests. The Committee receives input on Policy implementation within the wider workforce before reaching decisions on matters such as salary increases and annual incentive payouts and closely reviews the appropriateness of pay positioning by reference to external measures (benchmarking remuneration packages) and internal review of Company performance and pay gaps (CEO pay ratios, gender and ethnicity pay gaps) and from this year, the relativity year-on-year of salary, benefits and annual performance incentives compared with the same for the rest of the workforce.

- **Clarity:** we identify and communicate a range of performance measures in our incentives which clearly link to the successful execution of the Company's strategy.
- **Simplicity:** elements of our remuneration framework and their purpose are clearly articulated within our market-standard Remuneration Policy and we believe this is understood by all our stakeholders.
- **Risk:** risk is managed in a number of ways and evidenced through our Remuneration Policy, for example: setting maximum levels for incentive plans; implementing measures that are aligned to Company performance and shareholder interests; focusing on the long term and creating value through the LTPP; reviewing formulaic outcomes; malus and clawback provisions; and having a high shareholding requirement for senior executives.
- **Predictability:** full information on the potential values which could be earned are disclosed; our policy outlines threshold, target and maximum opportunity with varying actual incentive outcomes dependent on performance; and all the checks and balances set out above under Risk are disclosed as part of the Remuneration Policy.
- **Proportionality:** whilst incentive plans reward executives' performance in successfully delivering the business strategy, there is also a focus on sustaining this through holding periods that apply to vested shares and annual incentives paid out as shares; all executives are also subject to significant shareholding and post-employment shareholding requirements. The policy does not reward poor performance and the range of potential payouts under the Policy is appropriate.
- **Alignment to culture and strategy:** our culture recognises that how we do things is as vital as what we do and this is reflected in the type of performance conditions used in our incentive plans. Both the measures themselves and the targets set aim to reinforce this approach.

Our policy has operated as intended in terms of Company performance and quantum; a review of key considerations and decisions pertaining to its implementation is provided in the Committee Chair's statement.

The Committee's activities in 2021/22

Meeting/circulations	Main areas of discussion
April	Discussion on 2020/21 expected incentive plan outcomes (APP and outstanding LTPP) for the Group Executive Committee 2020/21 APP individual objective scoring for the Group Executive Committee Discussion on the 2021/22 APP financial and operational measures and LTPP 2021 award for the Group Executive Committee Discussion on the 2021/22 APP strategic objectives for the Group Executive Committee Market data review and base salary increase proposals for the Group Executive Committee
May	Approval of 2020/21 APP and 2018 LTPP outcomes for the Group Executive Committee Approval of pay decisions for the Group Executive Committee Review and approval of Chair fees Approval of the 2021/22 APP strategic objectives for the Group Executive Committee Approval of LTPP plan rules Items related to Executive Director leaver arrangements and WPD senior management team remuneration arrangements
July	Approval of 2021/22 APP targets (financial and operational) and 2018 LTPP vesting Debrief of AGM season, remuneration trends and initial discussion for 2022 Remuneration Policy
August*	Items related to new Group Executive Committee appointment
October	Approval of 2021 LTPP targets
November	Approval of the revision to 2021/22 APP targets to incorporate transactions impact Performance update on incentive plans (APP and outstanding LTPP) Items related to various Group Executive Committee members' (i) leaving arrangements, and (ii) remuneration arrangements Approval of 2021/22 Sharesave plan Review of gender and ethnicity pay gaps
January	Provisional approval 2022 Remuneration Policy; approval of the consultation plan Items related to various Group Executive Committee members' (i) leaving arrangements (ii) remuneration arrangements (iii) incentive plan outcomes, and (iv) forward looking objectives
February*	Review of shareholder letter on proposed Remuneration Policy
March	AGM season debrief and discussion on feedback from shareholder consultation on 2022 Remuneration Policy Discussion on 2021/22 expected incentive plan outcomes (APP and outstanding LTPP) for the Group Executive Committee 2021/22 APP individual objective scoring for the Group Executive Committee Discussion on the 2022/23 APP financial and operational measures and LTPP 2022 award for the Group Executive Committee Discussion on the 2022/23 APP strategic objectives for the Group Executive Committee Market data review and base salary increase proposals for the Group Executive Committee Approval of proposed amends to Employee Share Schemes Sub-Committee Terms of Reference

* By circulation.

Advisors to the Remuneration Committee

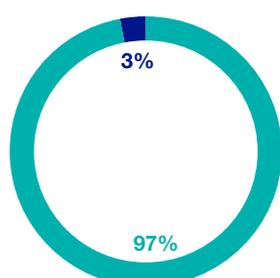
PricewaterhouseCoopers LLP (PwC) was selected by the Committee to become its independent advisor from 3 August 2020 and provided advice and counsel to the Committee throughout the 2021/22 financial year. PwC is member of the Remuneration Consultants Group (RCG) and have signed up to RCG's code of conduct. The Committee is satisfied that any potential conflicts were appropriately managed. Work undertaken by PwC in its role as independent advisor to the Committee, has incurred fees of £243,500 on the basis of time charged to perform services and deliverables.

The Committee reviews the objectivity and independence of the advice it receives from its advisors each year. It is satisfied that PwC provided credible and professional advice. PwC has provided general and technical remuneration services in relation to employees below Board and Group Executive Committee level that include broad-based employee reward support and data assurance services. In addition, Willis Towers Watson (WTW) provided benchmarking support to the Committee in the year and incurred fees of £15,600.

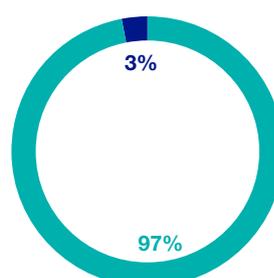
The Committee considers the views of the Chair on the performance and remuneration of the CEO, and of the CEO on the performance and remuneration of the other members of the Group Executive Committee. The Committee is also supported by the Group General Counsel & Company Secretary, who acts as Secretary to the Committee; the Chief People & Culture Officer; the Group Head of Reward; and, as required, the CFO, the Group Head of Pensions and Group Financial Controller.

Voting on Directors' Remuneration Policy and the Directors' Remuneration Report

Directors' Remuneration Policy adopted at the 2019 AGM



Directors' Remuneration Report 2020/21



■ For
■ Against

Note:

The Directors' Remuneration Policy voting figures shown refer to votes cast at the 2019 AGM and represent 64.66% of the voting share capital. The Directors' Remuneration Report voting figures shown refer to votes cast at the 2021 AGM (in respect of the 2019 remuneration policy adopted at the 2019 AGM) and represent 66.73% of the voting share capital.

Directors' Remuneration Report continued

Directors' Remuneration Policy

2022 Directors' Remuneration Policy

Our Remuneration strategy sets out to ensure strong alignment with our strategic priorities and creation of value for shareholders whilst providing market competitive remuneration to enable the attraction and retention of top leadership talent. Our existing Policy (adopted in 2019) continues to function well, providing remuneration outcomes well aligned to Company performance and our shareholders' experience. As such, the 2022 Policy, effective July 2022 subject to shareholder approval, incorporates modest refinements to reflect the importance of the Company's responsible business strategy and ESG goals in both the short and long-term and the increasingly dynamic external context which advantages greater agility and flexibility. We have engaged widely with shareholders and proxy advisory service organisations and are grateful for the engagement, feedback, and positive support on our Policy proposals. The Committee is committed to maintaining an open dialogue and members remain available to answer questions throughout the AGM process and forthcoming year ahead on our 2022 Directors' Remuneration Policy as outlined below.

Policy tables – Executive Directors

Element	Operation	Maximum levels	Performance assessment
Salary Purpose and link to business strategy: to attract, motivate and retain high-calibre individuals.	Salaries are generally reviewed annually and are targeted broadly at the mid-market of our peer group. However, a number of other factors are also taken into account: <ul style="list-style-type: none"> • business performance and individual contribution; • the individual's skills and experience; • scope of the role, including any changes in responsibility; • market data, including base pay and total remuneration; and • opportunity in the relevant comparator group. 	No prescribed maximum annual increase although increases are generally aligned to or below salary increases received by other Company employees and to market movements. Increases in excess of this may be made at the Committee's discretion in circumstances such as a significant change in responsibility, progression if more recently appointed in the role and alignment to mid-market levels.	Not applicable.
Benefits Purpose and link to business strategy: to provide competitive and cost effective benefits to attract and retain high-calibre individuals.	Benefits currently provided include: <ul style="list-style-type: none"> • company car or a cash alternative (UK only); • use of a car and driver when required; • private medical insurance; • life assurance; • personal accident insurance (UK only); • opportunity to purchase additional benefits (including personal accident insurance for US) under flexible benefits schemes available to all employees; and • opportunity to participate in HMRC (UK) or Internal Revenue Service (US) tax-advantaged all-employee share plans. <p>UK Sharesave: Monthly contributions from net salary for a period of three or five years. The savings can be used to purchase shares at a discounted price set at the launch of each plan period.</p> <p>Share Incentive Plan: UK employees may use gross salary to purchase shares. These shares are placed in trust.</p> <p>Employee Stock Purchase Plan (ESPP) (423(b) plan): eligible US employees may purchase ADSs on a monthly basis at a discounted price.</p> <p>Other benefits may be offered at the discretion of the Committee. In circumstances where an Executive Director is located outside of the UK, benefits will be set such that they are competitive in the local market.</p>	The cost of providing benefits will vary from year to year in line with market. Participation in tax-advantaged all-employee share plans is subject to limits set by relevant tax authorities.	Not applicable.
Pension Purpose and link to business strategy: to reward sustained contribution and assist in attraction and retention.	Externally hired Executive Directors may participate in a DC arrangement or alternatively choose to receive cash in lieu. In cases of internal promotion to the Board, the Company will recognise legacy DB pension arrangements of existing employees in both the UK and US where these have been provided under an existing arrangement. In line with market practice, pensionable pay for UK-based Executive Directors includes base salary only and for US-based Executive Directors it includes base salary and APP awards.	<p>UK Directors: DC: annual contributions for new appointments and existing Executive Directors of up to 12% of base salary. Executive Directors may take a full or partial cash supplement in lieu.</p> <p>Life assurance of four times base salary and a dependant's pension of one third of basic salary is provided. Executives with HMRC pension protection may be offered lump sum life assurance only, equal to four times base salary.</p> <p>US Directors: DC contributions of up to 9% of basic salary plus APP award with additional 401(k) plan match up to 4%.</p> <p>DB: no additional DB entitlements will be earned over the financial years from the date of appointment, other than an increase for price inflation due under the pension scheme rules and legislation. Under the terms of the pension scheme, if the Executive Director satisfies the ill-health requirements, or is made redundant, a pension may be payable earlier than the normal retirement date. A lump sum death in service benefit is also provided in respect of these DB entitlements.</p>	Not applicable. None of the current Executive Directors are active members of a defined benefit plan.

Element	Operation	Maximum levels	Performance assessment
<p>Annual Performance Plan Purpose and link to business strategy: to incentivise and reward the achievement of annual financial measures and strategic non-financial measures including the delivery of annual individual objectives and demonstration of our Company leadership qualities and values.</p>	<p>The APP comprises reward for achievement against financial and non-financial measures and achievement against individual objectives.</p> <p>Financial and non-financial performance measures and targets are normally agreed at the start of each financial year and are aligned with strategic business priorities. Targets are set with reference to the business plan and strategy. Individual objectives and associated targets are normally agreed also at the start of the year.</p> <p>APP awards are paid in June.</p> <p>At least 50% of the APP award is paid in shares, which (after any sales to pay associated income tax) must be retained until the shareholding requirement is met, and in any event for two years after receipt.</p> <p>Awards are subject to malus and clawback provisions.</p>	<p>The maximum award is 125% of base salary in respect of a financial year.</p> <p>The payout levels at threshold, target and stretch performance levels are 0%, 50% and 100%, respectively.</p> <p>In exceptional circumstances, (such as the recruitment of an Executive Director), the Committee has the flexibility to award up to an additional 50% of base salary as incentives and this can be applied across the APP and or LTPP in any given year but for one year only. Therefore, in exceptional circumstances, the annual maximum award opportunity under the annual bonus can be up to 175% of base salary assuming all 50% of the exceptional max is used and allocated to APP.</p>	<p>At least 50% of the APP is based on performance against financial measures.</p> <p>The Committee may use its discretion to set financial and non-financial measures that it considers appropriate in each year.</p> <p>Notwithstanding the level of award achieved, the Committee has the discretion to modify the formulaic amount payable, to reflect wider financial and business performance, demonstration of leadership qualities and our values, or to take account of a significant event.</p>
<p>Long-Term Performance Plan Purpose and link to business strategy: to drive long-term business performance, aligning Executive Director incentives to key strategic objectives and shareholder interests over the longer term.</p>	<p>Awards of shares may be granted each year, with vesting subject to long-term performance conditions.</p> <p>The performance measures which are chosen are those that the Committee believes reflect the creation of long-term value within the business. Targets are set for each award with reference to the business plan and strategy.</p> <p>Participants may receive ordinary dividend equivalent shares on vested shares, from the time the award was made, at the discretion of the Committee.</p> <p>Participants must retain vested shares (after any sales to pay associated income tax) until the shareholding requirement is met, and in any event for a further two years after vesting.</p> <p>Awards are subject to malus and clawback provisions.</p>	<p>The normal annual maximum award limits that may be granted are 350% of salary for the CEO and 300% of salary for other Executive Directors.</p> <p>For each performance measure, threshold performance will trigger up to 20% of the award to vest; 100% will vest if maximum performance is attained.</p> <p>In exceptional circumstances (such as the recruitment of an Executive Director), the Committee has the flexibility to award up to an additional 50% of base salary as incentives and this can be applied across the APP or the LTPP in any given year but for one year only. Therefore, in exceptional circumstances, the annual maximum award opportunity can be up to 400% of base salary for a CEO role and 350% of salary for other Executive Directors assuming all 50% of the exceptional max is used and allocated to LTPP.</p>	<p>The Committee will review performance measures for each award cycle prior to grant to ensure continued alignment with the Company's strategy. As such, different performance measures, targets and/or weightings may be set to reflect the business strategy and the regulatory framework operating at that time.</p> <p>Awards have a three-year performance period followed by a two-year holding period post-vesting.</p> <p>Notwithstanding the level of award achieved, the Committee has the discretion to modify the formulaic amount vesting, to reflect wider financial and business performance, demonstration of leadership qualities and our values, or to take account of a significant event.</p>
<p>Malus and clawback The Committee has discretion to determine whether exceptional circumstances exist which justify whether any or all of an award should be forfeited, even if already paid. Examples of exceptional circumstances include, but are not limited to:</p> <ul style="list-style-type: none"> • discovery of a material misstatement resulting in an adjustment in the audited accounts of the Company or any Group company; • the assessment of any performance condition, or condition in respect of a payment or award under the APP or LTPP, that was based on error, inaccurate or misleading information; • the discovery that any information used to determine the APP or LTPP award was based on error, inaccurate or misleading information; • action or conduct of a participant which amounts to fraud or gross misconduct; • event or behaviour of a participant leading to the censure of the Company by a regulatory authority or has had a significant detrimental impact on the reputation of any Group company, provided that the Board is satisfied that the relevant participant was responsible for the censure or reputational damage and that the censure or reputational damage is attributable to the participant; and • a material failure or risk management and/or corporate failure. <p>Where the Committee in its absolute discretion determines that exceptional circumstances exist that justify doing so:</p> <ul style="list-style-type: none"> • in respect of all or part of an award that has yet to be paid or vested ('malus'), as applicable, the Committee may determine the award, or part of it, will be forfeited; and • in respect of all or part of an award that has been paid or has vested ('clawback'), as applicable, the Committee may determine the award, or part of it, will be forfeited and may reclaim an amount considered appropriate through means deemed appropriate to those specific circumstances. 			
APP – cash	Malus applies in the year the bonus is earned and clawback for two years thereafter		
APP – deferred shares	Malus applies until the end of two years following the financial year in which the bonus is earned and clawback for two years thereafter		
LTPP	Malus applies up to vesting and clawback during the two-year holding period		

Directors' Remuneration Report continued

Directors' Remuneration Policy continued

Shareholding requirement – in employment

The requirement of Executive Directors to build up and hold a significant value of National Grid shares ensures they share a significant level of risk with shareholders and aims to align their interests. Executive Directors are required to build up and retain shares in the Company. The level of holding required is 500% of salary for the CEO and 400% of salary for the other Executive Directors. Unless the shareholding requirement is met, Executive Directors will not be permitted to sell shares, other than to pay income tax liabilities on shares just vested or in exceptional circumstances approved by the Committee.

Shareholding requirement – post employment

The requirement of Executive Directors to continue to hold National Grid shares after leaving ensures they continue to share a risk with shareholders and maintain alignment with shareholders' interests. Executive Directors will be required to hold 200% of base salary calculated at their leaving date, or maintain their actual holding percentage if lower, expressed as a number of shares and held for a period of two years. This calculation excludes the value of any awards not yet vested for 'good leavers' that will vest according to the normal schedule and which in any event must be held for a two-year period. The calculation will include recently vested LTPP awards or APP awards paid as shares which are subject to respective two-year holding periods, even after employment.

Until the post-employment shareholding requirement is met, Executive Directors will not be permitted to sell shares, other than to pay income tax liabilities on shares just vested or in exceptional circumstances approved by the Committee.

Our peer group

The Committee reviews its Remuneration Policy against appropriate peer groups annually to make sure we remain competitive in the relevant markets. The primary focus for reward market comparisons is currently the FTSE 11 – 40 for UK-based Executive Directors and US general industry and US energy services companies with similar levels of revenue for US-based Executive Directors. These peer groups are considered appropriate for a large, complex, international and predominantly regulated business. The Committee may amend the peer group and reference other peer groups as deemed appropriate.

Policy tables – Non-executive Directors (NEDs)

Element	Operation	Maximum levels	Performance metrics, weighting and time period applicable
Fees for NEDs Purpose and link to business strategy: to attract NEDs who have a broad range of experience and skills to oversee the implementation of our strategy	NED fees (excluding those of the Chair) are set by the Group Executive Committee in conjunction with the Chair. The Chair fees are set by the Committee. Fee structure: <ul style="list-style-type: none"> • Chair fee (all inclusive); • basic fee; • Committee chair fee; • Committee membership fee; • Senior Independent Director fee; and • additional Board responsibilities. Fees are reviewed every year taking into account those in companies of similar scale and complexity. The Chair is eligible to receive benefits as deemed appropriate and necessary in respect of the role, which may include, for example, private medical and personal accident cover, the use of a company car and driver, and financial advice. NEDs do not participate in incentives, pension or any other benefits. However, they are eligible for reimbursement for all Company-related travel expenses. In instances where these costs are treated by HMRC as taxable benefits, the Company also meets the associated tax cost to the Non-executive Directors through a PAYE settlement agreement with HMRC. NEDs who also sit on National Grid subsidiary boards may receive additional fees related to service on those boards.	There are no prescribed maximum fee levels although fee increases are generally aligned to salary increases received by other Company employees and market movement for NEDs of companies of similar scale and complexity. The cost of benefits provided to the Chair is not subject to a predetermined maximum since the purchase cost will vary from year to year.	Not applicable.

Legacy arrangements

For the avoidance of doubt, the Committee may approve payments to satisfy commitments agreed prior to the approval of this Remuneration Policy, for example, those outstanding and unvested incentive awards which have been disclosed to shareholders in previous Remuneration Reports and any commitment made to a person before that person became an Executive Director.

Operation of the policy

The Committee reviews annually the overall appropriateness and relevance of the Remuneration Policy and whether any changes should be put to shareholders. Decisions on the measures and targets for performance-related pay (APP and LTPP) and payouts are made taking account of overall financial and business performance. A member of the Audit & Risk Committee is required to be a member of the Committee and this ensures the Committee receives knowledgeable input on setting financial measures and assessing outturns including any adjustments and judgements considered by the Audit & Risk Committee. The Committee also works closely with the People & Governance Committee in respect of pay and conditions of newly appointed Directors to ensure their remuneration is within Policy. The Committee will also link in with the Employee Share Schemes Sub-Committee as required. Consistent with the UK Corporate Governance Code, members of the Remuneration Committee are independent Non-executive Directors who do not receive any variable remuneration and do not participate in decisions about their own remuneration.

Other features of the Remuneration Policy

Policy on recruitment remuneration

Salaries for new Executive Directors appointed to the Board will be set in accordance with the terms of the approved Remuneration Policy in force at the time of appointment, and in particular will take account the appointee's skills, experience and the scope and assessment of the market rate for the role.

Where appropriate, salaries may be set below market level initially, with the Committee retaining discretion to award increases in salary in excess of the wider workforce and inflation to progressively bring the salary up to the market level over time, where this is justified by individual and Company performance. Any such increases will be disclosed accordingly, along with a supporting rationale where appropriate.

Benefits consistent with those offered to other Executive Directors under the approved Remuneration Policy in force at the time of appointment will be offered, taking account of local market practice. The Committee may also agree that the Company will meet certain recruitment costs, for example legal fees, certain relocation expenses or provide tax equalisation as appropriate.

Pension contributions for new Executive Directors appointed to the Board will be set in accordance with the terms of the approved Remuneration Policy in force at the time of appointment.

Ongoing incentive pay (APP and LTPP) for new Executive Directors will be in accordance with the approved Remuneration Policy in force at the time of appointment. This means the normal maximum APP award in any year would be 125% of salary and the normal maximum LTPP award would be 350% of salary for the CEO and 300% of salary for other Executive Directors. In exceptional recruitment circumstances, the Committee has the flexibility to award up to an additional 50% of basic salary as incentive pay and this can be applied across the APP/LTPP in any given year but for one year only. The total maximum variable pay in any year will be 525%, excluding any buyout awards.

For an externally appointed Executive Director, the Company may offer additional cash or share-based payments that it considers necessary to buy out current entitlements from the former employer that will be lost on recruitment to National Grid. Any such arrangements would, so far as practicable, reflect the delivery mechanisms, time horizons and levels of conditionality of the remuneration lost. In order to facilitate buy-out arrangements, existing incentive arrangements will be used to the extent possible, although awards may also be granted outside of these shareholder-approved schemes if necessary and as permitted under the Listing Rules.

For an internally appointed Executive Director, any outstanding APP awards will be determined according to the original terms but paid at the end of the year. Any outstanding LTPP awards will be paid according to the original terms.

Fees for a new Chair or Non-executive Director will be set in line with the approved Policy in force at the time of appointment.

Service contracts/letters of appointment

In line with our Policy, all Executive Directors have service contracts which are terminable by either party with 12 months' notice commencing immediately after announcement. Non-executive Directors are subject to letters of appointment. The Board Chair's appointment is subject to six months' notice by either party; for other Non-executive Directors, notice is one month. Both Executive Directors and Non-executive Directors are required to be re-elected at each AGM.

Examples of circumstances which could trigger 'good leaver' treatment include: redundancy, retirement, illness, injury, disability and death. In these circumstances, awards will be released to the departing Executive Director or, in the case of death, to their estate. Long-term share plan awards held by 'good leavers' will normally vest, subject to performance measured at the normal vesting date and be reduced pro-rata for completed time of service starting on the date of grant, as per the plan rules. Such awards would vest at the same time as for other participants, apart from circumstances in which the award recipient has died, in which case the awards may vest as soon as practicable (based on a forecast of performance).

At the Committee's discretion, the Company may also agree other payments such as an agreed amount for legal fees associated with the departure of the Executive Director and outplacement support.

No compensation would be paid for loss of office of Directors on a change of control of the Company.

No compensation is payable to the Chair or Non-executive Directors if they are required to stand down or are not re-elected at the AGM.

Copies of Directors' service contracts and letters of appointment are available for inspection at the Company's registered office.

Policy on payment for loss of office

The contracts contain provisions for payment in lieu of notice, at the sole and absolute discretion of the Company. Such contractual payments are limited to payment of salary only for the remainder of the notice period. In the UK, such payments would usually be phased on a monthly basis, over a period not greater than 12 months, and the Executive Director would be expected to mitigate any losses where employment is taken up during the notice period. In the US, for tax compliance purposes, the policy is to make any payment in lieu of notice as soon as reasonably practicable, and in any event within two and a half months of the later of 31 December and 31 March immediately following the notice date.

In the event of a UK Director's role becoming redundant, statutory compensation would apply and the relevant pension plan rules may result in the early payment of an unreduced pension. On termination of employment, no APP award would generally be payable. However, the Committee has the discretion to deem an individual to be a 'good leaver', in which case a pro-rata discretionary payment could be paid, based on performance (as measured at the end of the financial year) and the achievement of individual objectives during the financial year up to termination.

Directors' Remuneration Report continued

Directors' Remuneration Policy continued

In the UK, any discretionary payment would generally be paid at the normal time. In the US the payment may be made earlier if required for tax compliance purposes, in which case the Committee would apply discretion to determine an appropriate level of financial performance. Examples of circumstances which could trigger 'good leaver' treatment include redundancy, retirement, illness, injury, disability and death. The Committee may apply discretion to determine if any pro-rata discretionary payment should be made sooner than it would normally be paid, for example, in the case of death.

On termination of employment, outstanding awards under the share plans will be treated in accordance with the relevant plan rules approved by shareholders. Unvested share awards would normally lapse. 'Good leaver' provisions apply at the Committee's discretion and in specified circumstances.

External appointments

Executive Directors may, with the approval of the Board, accept one external appointment as a Non-executive Director of another company and retain any fees received for the appointment. Experience as a board member of another company is considered to be valuable personal development, which in turn is of benefit to the Company.

Corporate and share capital events

The Group's employee share plans (including the LTPP) contain standard provisions that allow awards (and where relevant their exercise prices) to be adjusted, or in some cases vest or be exchanged, on the occurrence of a corporate or share capital event such as a capitalisation or rights issue, sub-division, consolidation or reduction of share capital, demerger, special dividend or distribution, listing or change of control, normally at the discretion of the Committee.

Total remuneration opportunity

The total remuneration for each of the Executive Directors that could result from the 2022 Remuneration Policy under three different performance levels (below threshold, when only fixed pay is receivable, on target and maximum) is shown below. The maximum receivable assuming 50% share price growth (or a reduction) in LTPP awards over a three-year performance period, and the basis for this calculation, is set out in the notes below.

John Pettigrew				Andy Agg				
Fixed pay	100%		£1,439	Fixed pay	100%		£855	
On target	33%	15%	52%	£4,416	33%	17%	50%	£2,618
Maximum	21%	21%	58%	£6,628	22%	23%	55%	£3,930

◆ Fixed pay ◆ APP ◆ LTPP
 ◆ Fixed pay ◆ APP ◆ LTPP

- Notes:**
- Fixed pay consists of salary, pension and benefits in kind as provided under the Remuneration Policy. Salary is that to be paid in 2022/23, taking account of the increases that will be effective from 1 July 2022 as shown on page 129. Benefits in kind and pension are as shown in the Single Total Figure of Remuneration table for 2021/22 on page 114.
 - APP calculations are based on 125% of salary for the period 1 April 2022 to 31 March 2023. APP payout is 0% for threshold performance, 50% for on-target performance and the maximum of 100% is for achieving stretch.
 - LTPP calculations are based on awards with a face value of 350% of 1 July 2022 salary for John Pettigrew and 300% of 1 July 2022 salary for Andy Agg. LTPP payout is 20% for threshold performance and the maximum of 100% is for achieving stretch and straight line vesting between. Excludes changes in share price and dividend equivalents.
 - For LTPP calculations, assuming either a 50% share price growth (or reduction) over the three-year performance period, the increase (or decrease) in LTPP value and maximum total compensation for each of the Executive Directors would be (all amounts expressed as £'000):
 - John Pettigrew: LTI value would increase (or decrease) from £3,824 to £5,736 (or £1,912) and maximum total compensation would rise (or reduce) from £6,628 to £8,540 (or £4,716) respectively
 - Andy Agg: LTI value would increase (or decrease) from £2,157 to £3,236 (or £1,079) and maximum total compensation would rise (or reduce) from £3,930 to £5,008 (or £2,809) respectively.

Consideration of remuneration policy elsewhere in the Company

The design and implementation of executive remuneration takes into consideration the wider workforce context and remuneration strategy to ensure they are mutually reinforcing. Our executive Remuneration Policy is well aligned to policies for our non-unionised workforce, and the Committee actively considers employee feedback and views on executive pay. The Company issues an employee engagement survey each year, which includes remuneration as a topic, and regularly engages with employees on a variety of topics including remuneration to ensure employees have an opportunity to share their feedback and views.

All employees are entitled to base salary, benefits, and pension contributions. The approach to assessing salaries, benefits, pensions and other elements of remuneration is consistent across the Group with an objective to ensure they remain competitive at relevant mid-market levels for all job bands/roles, including roles that are subject to union negotiation. We are pleased to report that National Grid continues to be accredited by the Living Wage Foundation as a real Living Wage employer for our UK businesses (excluding the recent acquisition of WPD). Further plans and efforts are underway to achieve equivalent accreditations for WPD and the rest of our global businesses in the US.

Middle to senior leaders are eligible to participate in our long-term incentive plans either through performance share awards or restricted share awards (under the LTPP) to incentivise and reward their individual contributions toward the Company's longer-term strategic priorities. Performance measures for the LTPP are consistent with measures set for Executive Directors to ensure strong alignment and focus on the Company's strategic goals.

Across the wider workforce, a greater emphasis and focus is placed on delivery of the Company's annual operational and financial business plans. As such, the majority of employees are eligible to participate in the APP. Performance measures for annual incentives are cascaded through the organisation and designed to ensure they incentive elements of business performance within an individual's control and are aligned to employee's annual goals. All Company employees are encouraged to become shareholders through a number of all-employee share plans and a significant proportion of our employees participate annually. These plans include Sharesave and the SIP in the UK and the 401(k) and 423(b) plans in the US which are summarised on page 124.

Implementation of the Remuneration Policy for 2022/23

The Remuneration Policy to be adopted at the 2022 AGM, subject to shareholder approval, will be implemented during 2022/23 as outlined below:

Salary and pensions

Salary increases will normally be in line with the increase awarded to other employees in the UK and the US, subject to performance. Higher salary increases may also be awarded for a change in responsibility. Additionally, in line with the Policy on recruitment remuneration, salaries for new directors may be set below market level initially and aligned to market level over time (provided the increase is merited by the individual's contribution and performance).

As explained in the Chair's statement, for 2022 a salary increase of 3.75% for John Pettigrew and 6.5% for Andy Agg will be awarded, effective from 1 July 2022.

	From 1 July 2022	From 1 July 2021	% increase
John Pettigrew	£1,092,500	£1,053,000	3.75%
Andy Agg	£719,000	£675,000	6.5%

The pension contribution for new and existing Executive Directors has been set to 12% effective 1 April 2022, in line with pension contribution rates for the UK wider workforce.

2022/23 Annual Performance Plan

The 2022/23 APP measures will be split across financial measures, operational measures and individual objectives, weighted 70%, 15% and 15% respectively. The increase in the financial element of the APP this year reflects a balancing of operational measures which total 15% (versus 20% in 2021/22) and individual objectives which total 15% (versus 20% in 2021/22). The maximum APP award for both the Executive Directors for 2022/23 is 125% of basic salary, in line with the Policy, subject to shareholder approval.

	Measure	Weighting
Financial measures	Underlying EPS	35%
	Group RoE	35%
Operational measures	Customers: Group Customer Satisfaction Index	5%
	Colleagues: Group Having a Voice Index	5%
	Diversity, Equity, and Inclusion: % Diversity of Strategic Leadership Group (top ~110 leaders)	5%
Individual objectives		15%

Financial measures

Underlying EPS and Group RoE have been retained as financial measures in the 2022/23 APP. In both measures for remuneration purposes, the part year contributions of UK Gas Transmission are included in the performance targets. Group RoE remains a relevant and key measure of performance as a primarily regulated asset-based company. In the short-term (APP), Group RoE targets are set to ensure strong in year returns and operational results. An 'annual profit' measure in the APP also remains key, given in particular the importance of regulated earnings to the business strategy. Underlying EPS is a well-understood and established measure internally and externally, and as such remains the most appropriate APP earnings measure for the business. Similar to Group RoE, annual target setting considers specific challenges and opportunities in the year ahead and is flexed accordingly whilst remaining consistent with our longer-term performance goals. Financial APP targets are considered commercially sensitive and consequently will be disclosed in the 2022/23 Directors' Remuneration Report.

Operational measures

The 2022/23 APP operational measures are designed to incentivise key annual priorities aligned to the Company's strategy as a responsible business and broader ESG goals and are weighted equally across three key measures focused on customers, colleagues and DEI. Operational measures will continue to be assessed on a four-point scale (not met, partially achieved, achieved and over-achieved) based on quantifiable targets and qualitative outcomes to reflect a balanced assessment of performance.

The Group Customer Satisfaction Index is an equally weighted index of quantifiable and predominantly externally measured customer satisfaction scores/ measures across each of the Company's business units. The inclusion of a customer measure in the APP reflects the strategic importance and focus on delivering excellent service and business outcomes for customers. The colleague 'Having a Voice' measure is a quantitative Group wide index from our annual Company-wide employee survey of more than 30,000 colleagues. The index measures the level of transparency and cultural openness in the organisation – a key area of focus for us. Specifically, the year ahead will maintain a strong focus on embedding the Company's purpose, values, and culture as part of the deeper integration of WPD as well as continue to evolve the culture and ways of working across the Group. The diversity measure is a quantifiable target for the level of diversity in the strategic leadership group (SLG ~ top 110) in line with a key strategic priority to build a strong, diverse, and inclusive strategic leadership team and pipeline of talent to support the delivery of the Company's strategy.

Individual objectives

The Committee has approved individual objectives for the Executive Directors in line with key strategic and operational priorities for the year ahead. John Pettigrew's individual objectives for 2022/23 are focused on: 1) delivery of the enterprise-wide transformation; 2) execution of the Company and Board's strategic blueprint; and 3) development and progression of a diverse, inclusive, strategic leadership group talent and capabilities. Andy Agg's annual performance objectives are focused on: 1) management of the portfolio repositioning, credit strategy, and investor sentiment; 2) achievement of key regulatory outcomes (ED2) and performance; and 3) progression of the Finance function's transformation and talent agenda.

Directors' Remuneration Report continued

How our Remuneration Policy will be implemented in 2022/23

2022 Long Term Performance Plan

The 2022 LTPP performance measures and weightings for all Executive Directors comprise two equally weighted financial measures totalling 80% and two equally weighted net zero transition measures with a combined weighting of 20% as outlined in the table below. The maximum 2022 LTPP award is 350% and 300% of base salary for John Pettigrew and Andy Agg respectively, in line with the proposed Policy, subject to shareholder approval.

LTPP targets and performance are measured over the entire three-year performance period, which for the 2022 LTPP is 1 April 2022 – 31 March 2025. Subject to approval by the shareholders at the 2022 AGM, the 2022 Remuneration Policy and the LTPP plan rules (approved at the July 2021 AGM that reflect updates to align to market practice and good governance, in particular for malus and clawback provisions) would apply to the 2022 LTPP awards.

	Measure	Weighting
Financial measures	Cumulative three-year Underlying EPS 	40%
	Group RoE 	40%
Net zero transition measures	National Grid Scope 1 emissions	10%
	Enablement of net zero transition: Strategic initiatives (Scope 2 and 3)	10%

 Denotes an 'alternative performance measure' as described on pages 268 – 279

Financial measures

LTPP financial measures are selected to reflect key drivers of the Company's longer-term strategy and value creation for shareholders. Given the primarily regulated and long-term nature of our businesses, earnings growth and sustainable investment returns are important measures of long-term shareholder value creation. Whilst we recognise our short-term (APP) and long-term (LTPP) financial measures are similar, we believe these are the right measures to support delivery of the business strategy and the resultant creation of shareholder value. The combination of annual and long-term earnings and returns measures act together to incentivise strong operational delivery in a year, and long-term efficient asset growth and a sustainable dividend. As such, the 2022 LTPP financial measures are designed to incentivise different elements of performance over the long term as compared to the short term. Specifically in LTPP, Group RoE is averaged across the three-year performance period with targets set to ensure the company delivers sustainable performance for shareholders. Similarly, the Underlying EPS measure is a cumulative measure that sums Underlying EPS for the three years in the LTPP performance period and sets out to incentivise sustainable long-term earnings growth and value creation for shareholders. As such, LTPP Underlying EPS targets have been set in line with the Company's five-year investor frame with target performance aligned to the top end of the range. The LTPP Underlying EPS measure will not be subject to the technical adjustments made in annual Group EPS measure.

Below are the performance ranges for the financial measures in the 2022 LTPP. The targets have been set in consideration of the forthcoming RIIO-ED2 final determination, the portfolio transactions and the Company's forward Strategic Business Plan.

Financial performance measures

	Weighting	Threshold 20% vesting	Maximum 100% vesting
Cumulative 3 year Underlying Group EPS 	40%	199 p	217 p
Group RoE 	40%	9.50%	10.75%

Notes: Vesting between threshold and maximum will be on a straight-line basis. The calculation for the Group RoE measure will reflect the updated methodology from 2021/22 going forward as outlined on page 277 of the Annual Report. Targets assume UK Gas Transmission minority stake is treated as a discontinued operation from start of 2023/24. Underlying EPS growth reflects the cumulative summation of the Underlying EPS results for each of the three years in the performance period: 2022/23, 2023/24 and 2024/25.

Net zero transition measures

The net zero transition measures set out targets and outcomes to achieve 1) reductions in the Company's direct Scope 1 emissions and 2) enable the broader net zero energy transition to achieve reductions in Scope 2 and Scope 3 emissions through greater reliance on low carbon/renewable energy sources in line with goals set out in our RBC.

The reduction of Scope 1 emissions target is a cumulative measure aligned to meet the Company's 2030 goals and the SBTi (Science Based Target initiative) well below 2°C pathway. The Scope 1 reduction target excludes Long Island Power Authority (LIPA) generation asset emissions as management do not have direct control over decisions to run the assets. In recent years, LIPA operation has been well above predicted levels driven by regional factors including availability of local supply. Broader considerations and actions regarding the longer term for LIPA have been incorporated into the second measure as part of enabling the net zero transition.

Net zero transition measures	Weighting	Threshold 20% vesting	Maximum 100% vesting
Reduction of Scope 1 emissions	10%	-50 ktCO ₂ e	-117 ktCO ₂ e

Note: Target represents cumulative savings as measured against the 2022 Scope 1 emissions baseline. These targets include best current estimates of the addition of WPD and removal of the UK Gas Transmission and US Rhode Island businesses.

How our Remuneration Policy will be implemented in 2022/23

The second measure reflects National Grid's role in enabling the net zero transition to a carbon neutral future by 2050. This measure will assess delivery against key net zero strategic priorities and quantified outcomes that underpin the Company's strategy to enable a net zero future by 2050. There are four key areas of focus; 1) US energy-efficiency programmes and generation; 2) UK net zero transmission strategy including interconnectors and transmission investment to connect offshore wind; 3) US future of gas strategy including the transition to renewable natural gas (RNG), hydrogen, and hybrid/electrification of heat; and 4) low-carbon electricity distribution investment in line with government and regulatory plans. Assessment of this measure will be based on a four-point scale (not met, partially achieved, achieved and over-achieved) based on delivery of quantifiable and qualitative outcomes to reflect a balanced assessment of performance.

Fees for NEDs

Non-executive Director fees were reviewed mid-year in light of the Board Committee and membership changes to ensure alignment to the market and simplify the fee structure. The fee increases will be effective from 1 January 2022 and paid retrospectively as of 1 July 2022.

Role	From 1 January 2022 (£'000)	From 1 July 2021 (£'000)	% increase vs 2021
Chair	700.0	700.0	0.0%
Senior Independent Director	30.0	23.6	27.1%
Board fee	80.0	71.1 (UK based) 84.4 (US based)	12.5% -5.2%
Chair Audit & Risk Committee	31.9	31.9	0.0%
Chair Remuneration Committee	30.0	31.9	-6.0%
Chair other Committees (Finance, Safety & Sustainability)	25.0	24.4	2.5%
Audit & Risk Committee member	23.0	11.0	109.1%
Remuneration Committee member	18.0	11.0	63.6%
Other Committee member (Finance, Safety & Sustainability, People & Governance)	15.0	11.0	36.4%

Note: For the People & Governance Committee, no fees are paid for the Committee Chair, the Senior Independent Director or the Board Chair.

The Directors' Remuneration Report has been approved by the Board and signed on its behalf by:



Ian Livingston
Committee Chair

18 May 2022

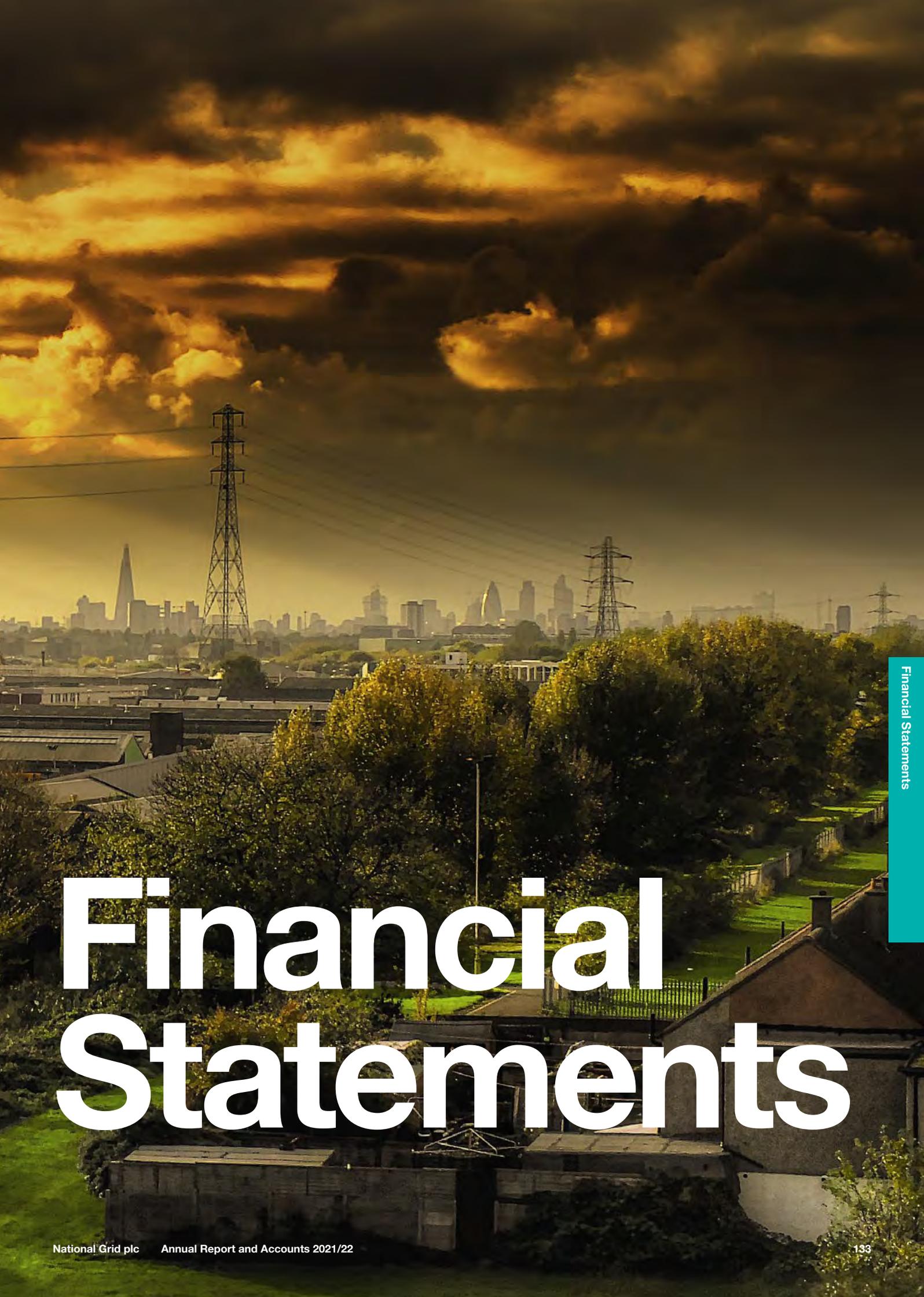
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Doing Right Now



Fairness and affordability

We are committed to delivering energy safely, reliably and affordably to the communities we serve. As well as affordability, we will play our role in ensuring no one is left behind in the short term due to increased energy prices, or in the longer-term transition to clean energy.



Financial Statements

Statement of Directors' responsibilities

The Directors are responsible for preparing the Annual Report and Accounts, including the Group financial statements and the Parent Company financial statements in accordance with applicable law and regulations.

Company law requires the Directors to prepare financial statements for each financial year. Under that law, the Directors are required to prepare the Group financial statements in accordance with International Accounting Standards in conformity with the requirements of the Companies Act 2006 and International Financial Reporting Standards (IFRS) as adopted by the UK. The financial statements also comply with IFRS as issued by the IASB. In addition, the Directors have elected to prepare the Parent Company financial statements in accordance with United Kingdom Generally Accepted Accounting Practice (United Kingdom Accounting Standards and applicable law), including FRS 101 'Reduced Disclosure Framework'. Under company law, the Directors must not approve the accounts unless they are satisfied that they give a true and fair view of the state of affairs of the Group and Parent Company and of the profit or loss of the Group and Parent Company for that period.

In preparing the Group financial statements, International Accounting Standard 1 requires that Directors:

- properly select and apply accounting policies;
- present information, including accounting policies, in a manner that provides relevant, reliable, comparable and understandable information;
- provide additional disclosures when compliance with the specific requirements in IFRS are insufficient to enable users to understand the impact of particular transactions, other events and conditions on the entity's financial position and financial performance; and
- make an assessment of the Group's ability to continue as a going concern.

In preparing the Parent Company financial statements, the Directors are required to:

- select suitable accounting policies and then apply them consistently;
- make judgements and accounting estimates that are reasonable and prudent;
- state whether applicable UK Accounting Standards have been followed, subject to any material departures disclosed and explained in the financial statements; and
- prepare the financial statements on the going concern basis unless it is inappropriate to presume that the Company will continue in business.

The Directors are responsible for keeping adequate accounting records that are sufficient to show and explain the Group and Parent Company's transactions and disclose with reasonable accuracy at any time the financial position of the Group and Parent Company on a consolidated and individual basis, and to enable them to ensure that the Group financial statements comply with the Companies Act 2006. They are also responsible for safeguarding the assets of the Parent Company and its subsidiaries and hence for taking reasonable steps for the prevention and detection of fraud and other irregularities.

The Directors are responsible for the maintenance and integrity of the Company's website. Legislation in the United Kingdom governing the preparation and dissemination of financial statements may differ from legislation in other jurisdictions.

Having made the requisite enquiries, so far as the Directors in office at the date of the approval of this Report are aware, there is no relevant audit information of which the auditors are unaware and each Director has taken all reasonable steps to make themselves aware of any relevant audit information and to establish that the auditors are aware of that information.

Each of the Directors, whose names and functions are listed on pages 88 – 89, confirms that:

- to the best of their knowledge, the Group financial statements and the Parent Company financial statements, which have been prepared in accordance with IFRS as issued by the IASB and IFRS as adopted by the UK and UK GAAP FRS 101 respectively, give a true and fair view of the assets, liabilities, financial position and profit of the Company on a consolidated and individual basis;
- to the best of their knowledge, the Strategic Report contained in the Annual Report and Accounts includes a fair review of the development and performance of the business and the position of the Company on a consolidated and individual basis, together with a description of the principal risks and uncertainties that it faces; and
- they consider that the Annual Report and Accounts, taken as a whole, are fair, balanced and understandable and provides the information necessary for shareholders to assess the Company's position and performance, business model and strategy.

This Responsibilities Statement was approved by the Board and signed on its behalf.

Directors' Report

The Directors' Report, prepared in accordance with the requirements of the Companies Act 2006 and the UK Listing Authority's Listing Rules, and Disclosure Rules and Transparency Rules, comprising pages 1 – 131 and 242 – 288, was approved by the Board and signed on its behalf.

Strategic Report

The Strategic Report, comprising pages 1 – 83, was approved by the Board and signed on its behalf.

By order of the Board



Justine Campbell
Group General Counsel & Company Secretary

18 May 2022

Company number: 04031152

Independent Auditor's Report to the members of National Grid plc

Report on the audit of the financial statements

1. Opinion

In our opinion:

- the financial statements of National Grid plc (the 'Parent Company') and its subsidiaries (the 'Group') give a true and fair view of the state of the Group's and of the Parent Company's affairs as at 31 March 2022 and of the Group's profit for the year then ended;
- the Group financial statements have been properly prepared in accordance with United Kingdom adopted international accounting standards and International Financial Reporting Standards (IFRS) as issued by the International Accounting Standards Board (IASB);
- the Parent Company financial statements have been properly prepared in accordance with United Kingdom Generally Accepted Accounting Practice, including Financial Reporting Standard 101 'Reduced Disclosure Framework'; and
- the financial statements have been prepared in accordance with the requirements of the Companies Act 2006.

We have audited the financial statements which comprise:

Group:

- the consolidated income statement;
- the consolidated statement of comprehensive income;
- the consolidated statement of changes in equity;
- the consolidated statement of financial position;
- the consolidated cash flow statement; and
- the related notes 1 to 38 to the consolidated financial statements.

3. Summary of our audit approach

Materiality	The materiality that we used for the Group financial statements was £135 million which represents 4.9% of adjusted profit before tax (profit before tax from continuing operations, excluding the impact of reported exceptional items and remeasurements) and 4.1% of statutory profit before tax.
Scoping	Our scope covered eight components of the Group in addition to procedures performed at the Group level. Of these, five were subjected to a full-scope audit whilst the remaining three were subject to specific procedures on certain account balances. Our scoping covered 97% of the Group's revenue; 93% of the Group's profit before tax; and 98% of the Group's net assets.
Key audit matters	The key audit matters that we identified in the current year were: <ul style="list-style-type: none"> • Acquisition of Western Power Distribution (WPD) and impairment testing of the related WPD goodwill; and • Impact of climate change on property, plant and equipment. <p>The following items were identified as key audit matters in the prior year but not in the current year:</p> <ul style="list-style-type: none"> • 'Impact of COVID-19 including the recoverability of US trade and other receivables' has not been deemed to be a key audit matter this year as the impact is now well understood and there is a reduction in uncertainty. This reduces the impact on accounting judgements and on the way that we perform our audit; and • 'Treasury derivative transactions' has not been deemed a key audit matter this year. Although we continue to undertake a substantial amount of work to audit the Group's large Treasury function, there have been no significant matters identified in either the current or prior year, meaning we believe this can now be considered a more routine area of the audit. <p>Following the acquisition of WPD during the year, we identified the acquisition accounting of WPD and the subsequent impairment testing of the goodwill recognised on acquisition as a key audit matter, given the size of the acquisition and the judgements applied by management in both the purchase price allocation (PPA) and the goodwill impairment testing.</p>

Parent Company:

- the Company accounting policies;
- the Company balance sheet;
- the Company statement of changes in equity; and
- the related notes 1 to 10 to the Company financial statements.

The financial reporting framework that has been applied in the preparation of the Group financial statements is applicable law, United Kingdom adopted international accounting standards and IFRS as issued by the IASB. The financial reporting framework that has been applied in the preparation of the Parent Company financial statements is applicable law and United Kingdom Generally Accepted Accounting Practice, including Financial Reporting Standard 101 'Reduced Disclosure Framework' (United Kingdom Generally Accepted Accounting Practice).

2. Basis for opinion

We conducted our audit in accordance with International Standards on Auditing (UK) (ISAs (UK)) and applicable law. Our responsibilities under those standards are further described in the auditor's responsibilities for the audit of the financial statements section of our report.

We are independent of the Group and the Parent Company in accordance with the ethical requirements that are relevant to our audit of the financial statements in the UK, including the Financial Reporting Council's (the 'FRC's') Ethical Standard as applied to listed public interest entities, and we have fulfilled our other ethical responsibilities in accordance with these requirements. The non-audit services provided to the Group and Parent Company for the year are disclosed in note 4e to the consolidated financial statements and note 10 to the Company financial statements. We confirm that we have not provided any non-audit services that are prohibited by the FRC's Ethical Standard to the Group or the Parent Company.

We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Independent Auditor's Report to the members of National Grid plc continued

4. Conclusions relating to going concern

In auditing the financial statements, we have concluded that the Directors' use of the going concern basis of accounting in the preparation of the financial statements is appropriate.

Our evaluation of the Directors' assessment of the Group's and Parent Company's ability to continue to adopt the going concern basis of accounting included:

- assessing the financing facilities including the nature of facilities, repayment terms and covenants;
- enquiring of management regarding the assumptions used in the going concern model;
- testing the clerical accuracy and appropriateness of the model used to prepare the forecasts;
- assessing the assumptions used in the forecasts;
- assessing management's identified potential mitigating actions and the appropriateness of the inclusion of these in the going concern assessment;
- assessing the historical accuracy of forecasts prepared by management;
- reading analyst reports, industry data and other external information to determine if it provided corroborative or contradictory evidence in relation to assumptions used;
- reperforming management's sensitivity analysis; and
- evaluating the disclosures made within the financial statements.

Based on the work we have performed, we have not identified any material uncertainties relating to events or conditions that, individually or collectively, may cast significant doubt on the Group's and Parent Company's ability to continue as a going concern for a period of at least twelve months from when the financial statements are authorised for issue.

In relation to the reporting on how the Group has applied the UK Corporate Governance Code, we have nothing material to add or draw attention to in relation to the Directors' statement in the financial statements about whether the Directors considered it appropriate to adopt the going concern basis of accounting.

Our responsibilities and the responsibilities of the Directors with respect to going concern are described in the relevant sections of this report.

5. Key audit matters

Key audit matters are those matters that, in our professional judgement, were of most significance in our audit of the financial statements of the current period and include the most significant assessed risks of material misstatement (whether or not due to fraud) that we identified. These matters included those which had the greatest effect on: the overall audit strategy; the allocation of resources in the audit; and directing the efforts of the engagement team.

These matters were addressed in the context of our audit of the financial statements as a whole, and in forming our opinion thereon, and we do not provide a separate opinion on these matters.

5.1 Acquisition of WPD and impairment testing of the related WPD goodwill

Key audit matter description **Account balance: Property, plant and equipment (PPE), Other intangible assets, Borrowings and Goodwill. Refer to notes 1F, 11, 35 and 37 to the financial statements and the Audit & Risk Committee's discussion on pages 101 – 105. Acquisition of WPD (referred to as 'UK Electricity Distribution')**

The acquisition of WPD completed on 14 June 2021. The Competition and Markets Authority (CMA) issued an Initial Enforcement Order (IEO) which required the WPD group to continue to be run independently from National Grid until it had completed its reviews. The CMA reviews were completed on 1 September 2021, at which point the restrictions put in place by the IEO were removed. The IEO restrictions meant there was judgement regarding the point at which National Grid assumed control of WPD. Management concluded that, based on the evaluated evidence, they assumed control from 14 June 2021 and consolidated WPD from that date.

Management, with support from third-party experts, performed an exercise to fair value the assets and liabilities acquired at the date of acquisition. The key balance sheet items fair valued included:

- PPE valued at £10,051 million, which implied a step-down of £4,026 million relative to the book value acquired. This represents a combination of an accounting adjustment to remove deferred customer contributions and a fair value step-down;
- licence intangible assets of £1,714 million; attributed to the licences to operate for each of the distribution network operators (DNOs) acquired; and
- non-current borrowings of £7,556 million; an increase of £1,589 million on pre-acquisition book value.

The difference between the consideration paid (£7,881 million) and the net fair values of the identified assets and liabilities acquired (£3,160 million) is recorded as goodwill of £4,721 million. Management concluded this represents the future expected growth of the WPD business, expected synergies from combining the business with National Grid and the expertise of the management team acquired.

The most significant judgements related to the allocation of value between PPE, the acquired licence intangibles and the residual goodwill recorded.

The fair value of the PPE assets was determined based on cash flows related to the existing asset base, including estimates regarding future expected outperformance, maintenance and replacement expenditure and regulatory returns. Given there is no future cash inflow related to assets which were funded by customer contributions, this resulted in an accounting adjustment of £2,754 million.

The fair value of the licence intangible assets was determined based on discounting the incremental cash flows relating to the licence. These cash flows were calculated by subtracting the cash flows attributable to PPE and goodwill from the cash flows for the business as a whole. The licence cash flows are dependent on multiple key assumptions including future expected outperformance, synergies, capital expenditure and regulatory returns which are subject to a high degree of uncertainty.

5.1 Acquisition of WPD and impairment testing of the related WPD goodwill continued

Key audit matter description continued

In determining these fair values, management is required to make significant estimates and judgements including those relating to the forecasts of future cash flows, terminal value and selection of the discount rate. Performing audit procedures to evaluate the appropriateness of management's determination of the acquisition date and the reasonableness of these estimates and assumptions required a high degree of auditor judgement and an increased extent of effort, including the need to involve our fair value specialists.

WPD goodwill impairment

Following the finalisation of the PPA, the WPD goodwill balance of £4,721 million was tested for impairment in line with the requirement in IAS 36 to perform an impairment review annually, starting in the year of acquisition. Due to volatility caused by macroeconomic events in the last three months of this financial year, management tested goodwill as at 31 March 2022 but will revert to 31 December in future periods.

As set out in note 11 to the financial statements, management prepared a discounted cash flow model to estimate the value-in-use and compared this to the carrying value; this indicated there was headroom and accordingly no impairment was recognised. The value-in-use was measured at the group of cash-generating units (CGU) level and the calculation was derived from multiple inputs to the model.

We performed risk assessment procedures and identified three key assumptions:

- **Totex forecasts** – The model used for the impairment test leverages the cash flow forecasts from the fair value allocation exercise and extends to 2050. Management forecast negative cash flows for a number of years due to the level of investment required to reinforce the networks to meet expected electricity demand in order to achieve the Company's and the UK's target to become net zero by 2050. The future forecast expenditure is therefore dependent on the increased demand for low-carbon technologies ('LCTs') including electric vehicles (EVs) and heat pumps which will require more connections on the distribution network. Given there are a number of potential pathways for the energy transition to 2050, including the extent of electrification, there is uncertainty in the level of future totex required.
- **Discount rate** – Management utilised a pre-tax discount rate of 5.2%. The discount rate should reflect the return required by the market and the risks inherent in the cash flows being discounted and accordingly should be independent of the actual capital structure of the business being assessed and the way in which the acquisition of the business was financed. There is a risk that management did not apply a reasonable discount rate, leading to a material misstatement of goodwill.
- **Terminal value** – In order to calculate the value of the business at the end of the forecast period in 2050, management have assumed an 'exit multiple' of Regulatory Asset Value (RAV) at that date. This is the equivalent of a nominal growth rate in perpetuity of 2.5%.

Changes in these assumptions could have a significant impact on the fair value and the amount of any impairment charge.

The impairment test of WPD goodwill involved significant assumptions including those used in the selection of the discount rate and the terminal value. Auditing these assumptions required a high degree of auditor judgement and increased extent of effort, including the need to involve more senior members of the team and our fair value specialists.

How the scope of our audit responded to the key audit matter

Acquisition of WPD

We have tested the controls over the accounting for the acquisition of WPD. This has included testing the review controls over the valuations and management's challenge of the estimates made.

We challenged the reasonableness of management's judgement regarding the date from when they assumed control, including reading correspondence with the regulators and the terms of the IEO, as well as searching for any contradictory evidence.

In respect of the overall acquired balance sheet, we:

- evaluated the appropriateness of the methodology applied in valuing the acquired assets and liabilities;
- determined the reasonableness of the values attributed to acquired assets and liabilities, with input from our valuations, tax, treasury and pension specialists;
- read the share purchase agreement; and
- vouched the consideration paid to bank statements.

In challenging management's judgements and estimates relating to the fair value allocations to PPE, intangible assets and goodwill, we:

- evaluated the fair value methodology used by management's experts, with input from our valuation specialists;
- assessed the competence and objectivity of management's experts;
- tested the integrity of the model used in determining the fair values; and
- compared significant assumptions to externally sourced information including from the regulator and other government bodies.

We also evaluated the appropriateness of the disclosures in the financial statements.

WPD goodwill impairment

We tested the controls over management's impairment review performed for the WPD business. In addition, we conducted the following substantive procedures.

Totex forecasts

- We understood the key totex assumptions in the model and challenged the basis of these by benchmarking the assumptions against third-party and relevant industry publications to inform our assessment of the nature, timing and extent of expected electrification in the UK.
- We evaluated the competence and objectivity of the third-party experts used by management to develop the totex forecasts.

Independent Auditor's Report to the members of National Grid plc continued

5.1 Acquisition of WPD and impairment testing of the related WPD goodwill continued

How the scope of our audit responded to the key audit matter
continued

Discount rate

- We engaged our valuation specialists to develop an independent range for a reasonable discount rate using relevant third-party market and peer data for the WPD business. We compared management's calculated rate to our reasonable range.

Terminal value

- We independently developed a reasonable range of RAV-based exit multiples using external data obtained for historical market transaction values.
- We independently recalculated the equivalent long-term nominal growth rate to assess the reasonableness of the rate compared to long-term growth forecasts for the UK economy.

Other

- We assessed whether the impairment methodology applied by management was acceptable under IFRS and tested the integrity and mechanical accuracy of the impairment model.
- We evaluated all key inputs, assumptions and datasets used in the model by benchmarking information to different industry and third-party publications.
- We assessed the accuracy of management's short-term forecasts by comparing to the latest historical financial information for WPD.
- We assessed whether management's impairment forecasts are consistent with other forecasts used by management, including the RIIO-ED2 business plan submitted to Ofgem.
- We evaluated all changes to key assumptions between the model used for the PPA exercise and the goodwill impairment test.
- We challenged management's disclosures in notes 1F, 11, 35 and 37 including in relation to the sensitivity of discount rate and terminal value disclosures.

Key observations

Acquisition of WPD

Our testing confirmed that relevant controls over management's significant judgements and estimates operated effectively.

We are satisfied:

- that it is appropriate for management to consolidate WPD from 14 June 2021;
- that management's methodology in valuing the acquired assets and liabilities is reasonable;
- that the fair values allocated to PPE, licence intangible assets, and goodwill, whilst judgemental, are reasonable; and
- that the disclosures relating to the acquisition in notes 1F and 37 are appropriate.

Goodwill impairment

Our testing confirmed that relevant controls over management's impairment test of WPD operated effectively.

Management's forecasts assume that for the next regulatory price control, which is yet to be approved by the regulator but will be applicable from 1 April 2024, the methodology will be consistent with recent regulatory publications. This is a reasonable assumption; however, should there be a significant change in the stability of the regulatory model that governs the performance of electricity distribution operators this could result in an impairment, as set out in note 11 to the financial statements.

Totex forecasts

For the purpose of the impairment test management has used forecasts for totex which represent a reasonable view of the extent of expected electrification in targeting net zero when compared with a range of scenarios in the public domain.

Discount rate

Management's pre-tax discount rate of 5.2% is towards the low end of the reasonable range determined by our specialists. The rate is a highly sensitive assumption and an increase in the pre-tax discount rate by 50 basis points would result in an impairment of £1,033 million, as set out in note 35 to the financial statements.

Terminal value

The RAV-based exit multiple used to determine the terminal value (equivalent to a 2.5% nominal growth rate in perpetuity) is within the reasonable range of multiples we have determined based on our assessment of historical market transactions. The value-in-use calculation is very sensitive to the terminal value as it represents 98% of the value-in-use on a post-tax basis. Reducing the terminal value to a level consistent with a 2% in perpetuity nominal growth rate would eliminate the headroom.

5.2 Impact of climate change on property, plant and equipment

Key audit matter description

Account balance: PPE. Refer to notes 1F and 13 to the financial statements and the Audit & Risk Committee's discussion on pages 101 – 105.

The UK government and certain US states in which the Group operates have enacted legislation and established targets in respect of net zero carbon emissions by 2050. Accordingly climate change represents a strategic challenge for the Group, which has also set targets for reducing greenhouse gas emissions by the same date.

Natural gas, when burned, emits carbon dioxide and is considered a greenhouse gas. Therefore, the strategic challenge relates to the potential future use of the Group's gas assets, which are used to facilitate gas transmission services in the UK and gas distribution services in the US in the period approaching 2050 and beyond. However, the Group announced the sale of the UK gas transmission business in March 2022 and since August 2021, it has been held for sale with the transaction expected to be completed in the third quarter of 2022/23. Accordingly, the useful lives of the UK gas transmission assets are no longer a risk for the Group and do not materially impact the results for the year. Therefore, our focus has been on the useful economic life of the Group's gas assets in the US, which is up to 80 years, extending well beyond the 2050 net zero commitment date.

As the continued use of natural gas as a primary energy source beyond 2050 appears to be in conflict with net zero targets and the impact of shortening the useful lives of the gas assets to 2050 has a material impact on annual depreciation, there is an audit risk that management judgements taken to determine useful lives of US gas assets in the context of the net zero commitments are not reasonable.

As described in note 13 to the financial statements, the impact of changing the useful economic lives of the gas assets in the US, such that they would be fully depreciated by 2050, would be an increase in the annual depreciation expense of £180 million.

The Group announced in April 2022 that it is planning to eliminate fossil fuels from its gas and electric systems in New York state and Massachusetts by 2050, by decarbonising the gas network through the use of renewable natural gas (RNG) and green hydrogen. This commitment to eliminate entirely, fossil fuels from the gas network by 2050, includes clear and measurable internal milestones in the period up to 2050.

Both New York and Massachusetts, the largest states in which the Group operates, announced climate action plans proposing that nearly all households change their heating systems to electricity by 2050. Management's vision, which will require legislative and regulatory support to implement, proposes a hybrid approach that they believe will enable customers to have more affordable energy solutions and allow customers to retain choice in how to achieve net zero.

Although there are challenges and uncertainties around the sufficiency of RNG supply, as well as around the cost effectiveness and production of green hydrogen, as they are early stage technologies, management is of the view that a hybrid electric-gas heating system approach will be a practical and achievable pathway to meet the state and regional decarbonisation goals as well as the most affordable, reliable and practical solution to reduce emissions. This hybrid approach would mean there would be a need for the majority of the Group's US gas assets in the long term and hence there will be no need to shorten their useful economic lives.

Management operated a control to assess the accounting impacts associated with climate change, including on the useful lives of the Group's US gas assets, to ensure these are considered and reflected appropriately in the financial statements.

Management determined that disclosure of a key judgement in relation to the potential future use of the US gas assets post 2050 and disclosure of the gas asset lives as a key estimate (note 1F to the financial statements), with sensitivity analysis (note 13 to the financial statements), was appropriate.

Independent Auditor's Report to the members of National Grid plc continued

5.2 Impact of climate change on property, plant and equipment continued

How the scope of our audit responded to the key audit matter

We tested management's internal control over the accounting for and disclosure of the potential impacts associated with the energy transition and climate change.

With the assistance of our sustainability specialists, we challenged management's judgement that it is probable the useful lives of the US gas assets will extend beyond 2050 in light of the different goals, commitments and legislation relating to net zero in the US states in which the Group operates by:

- understanding potential strategic pathways to achieve net zero targets;
- obtaining and reading government plans in the US for achieving net zero which we compared to the potential strategic pathways;
- challenging the technical feasibility of management's plans by considering the readiness for hydrogen blending with other gases across both transmission and distribution networks;
- evaluating information from the Group's regulators, including rate cases in the US, to consider whether they presented any contradictory evidence;
- performing an assessment of the likelihood of occurrence of alternative scenarios for achieving net zero targets;
- considering the potential for repurposing the Group's gas networks for alternative uses, and in particular management's plans to decarbonise the natural gas system with renewable natural gas and hydrogen; and
- reading a number of external reports, the key ones being:
 - The Sixth Carbon Budget, produced by the Climate Change Committee;
 - National Grid's 'Clean Energy Vision' report;
 - The 'DPU 20-80 Notice of Filing and Public Hearing';
 - 'Ramping Up Heat Pump Adoption in New York State';
 - 'E3's Technical Analysis of Decarbonization Pathways report' for Massachusetts;
 - The 'Pathways to Carbon-Neutral NYC: Modernize, Reimagine, Reach', produced by the New York City Mayor's Office of Sustainability;and searching for contradictory evidence in respect of management's judgements.

We also held discussions with Deloitte specialists in other countries regarding the suitability of existing gas infrastructure for transporting hydrogen across both transmission and distribution gas assets as well as the potential cost effectiveness of green hydrogen.

We assessed the disclosures set out in note 1 to the financial statements and the sensitivity analysis set out in note 13 to the financial statements regarding the useful economic lives of the Group's gas assets.

Key observations

Our testing confirmed that the relevant controls over management's assessment of the impact of the energy transition and climate change operated effectively.

In the UK we have noted that the announcement of the 60% sale of its UK gas business, 'NGG', in March 2022 has resulted in a reduced risk and that the depreciation impact on the current year financial statements is not material as depreciation of the gas assets ceased from the date the business was held for sale in August 2021.

We observe that whilst some indicators do exist suggesting that the useful economic lives of the Group's US gas assets may be limited to 2050, these are mitigated by other statements by governments and advisory bodies which suggest electrification alone is not a reliable solution and therefore gas distribution assets in the US, will continue to have a role beyond 2050.

Management's best estimate of the useful economic lives of US gas assets, across all states in which it operates, is based on the depreciable lives identified through depreciation studies for each asset which are approved by the respective state regulator. Accordingly, in the US, the IFRS asset depreciable lives are identical to those agreed by the Group's regulators for regulatory purposes.

We note that whilst state energy policy in the US states in which the Group operates is codified by the legislature, it is the regulators who are charged with implementing state energy policies. We concluded it was reasonable to assume that there will be a valuable use for the Group's US gas assets beyond 2050 and in the absence of any determination by the Group's regulators, it continues to be reasonable to use the regulatory asset lives for the calculation of depreciation in accordance with IFRS.

We consider the disclosures in note 1 to the financial statements and the sensitivity analysis in note 13 to the financial statements to be appropriate.

We are satisfied that management's other disclosures in the Annual Report and Accounts relating to the uncertainty surrounding the future use of the Group's gas assets are consistent with the financial statements and our understanding of the business.

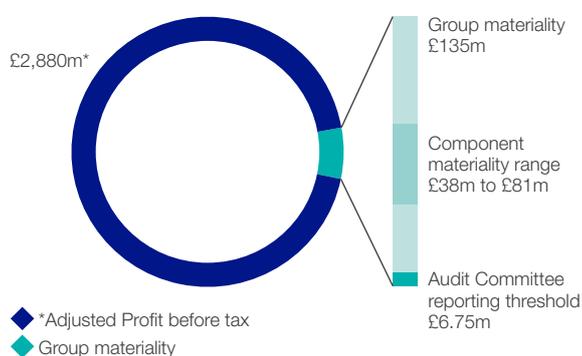
6. Our application of materiality

6.1 Materiality

We define materiality as the magnitude of misstatement in the financial statements that makes it probable that the economic decisions of a reasonably knowledgeable person would be changed or influenced. We use materiality both in planning the scope of our audit work and in evaluating the results of our work.

Based on our professional judgement, we determined materiality for the financial statements as a whole as follows:

	Group financial statements	Parent Company financial statements
Materiality	£135 million (2021: £120 million)	£135 million (2021: £100 million)
Basis for determining materiality	<p>Our determined materiality represents 4.7% (2021: 5.9%) of adjusted profit before tax from continuing operations and 3.9% (2021: 5.8%) of statutory profit before tax from continuing operations.</p> <p>Adjusted profit before tax is profit before tax, exceptional items and remeasurements as disclosed in the consolidated income statement. Prior year materiality was determined on a similar basis.</p>	<p>We determined materiality for our audit of the Parent Company financial statements using 0.83% of net assets (2021: 0.68%). The increase in materiality is in part a result of net assets increasing in the current year. In addition, we decided to align the Parent Company materiality with Group materiality.</p>
Rationale for the benchmark applied	<p>We consider adjusted profit before tax to be an important benchmark of the performance of the Group. We consider it appropriate to adjust for exceptional items and remeasurements as these items are volatile and not reflective of the underlying performance of the Group.</p> <p>We conducted an assessment of which line items we understand to be the most important to investors and analysts by reviewing analyst reports and National Grid's communications to shareholders and lenders, as well as the communications of peer companies. This assessment resulted in us considering the financial statement line items above.</p> <p>Profit before tax is the benchmark ordinarily considered by us when auditing listed entities. It provides comparability against other companies across all sectors, but has limitations when auditing companies whose earnings are impacted by items which can be volatile from one period to the next, and therefore may not be representative of the volume of transactions and the overall size of the business in a given year, or where the impact of volatility may result in the recognition of material income or charges in a particular year.</p> <p>Whilst not an IFRS measure, adjusted profit is one of the key metrics communicated by management in National Grid's results announcements. It excludes some of the volatility arising from changes in fair values of financial assets and liabilities as well as exceptional items. It was also the key measure applied in the prior year.</p>	<p>As the Company is non-trading, operates primarily as a holding company for the Group's trading entities, and is not profit orientated, we believe the net asset position is the most appropriate benchmark to use.</p>



Independent Auditor's Report to the members of National Grid plc continued

6.2 Performance materiality

We set performance materiality at a level lower than materiality to reduce the probability that, in aggregate, uncorrected and undetected misstatements exceed the materiality for the financial statements as a whole.

	Group financial statements	Parent Company financial statements
Performance materiality	70% (2021: 80%) of Group materiality. Given the acquisitions, disposals and changes in operating model and key financial systems, we have set this at 70% of materiality compared with 80% in the prior year.	70% (2021: 80%) of Parent Company materiality. Although the factors leading to the reduction in performance materiality % for the Group do not impact the Parent Company in the same way, we also decided to align performance materiality with the Group.
Basis and rationale for determining performance materiality	<p>In determining performance materiality, we considered the following factors:</p> <ul style="list-style-type: none"> • Our cumulative experience from prior year audits; • The level of corrected and uncorrected misstatements identified; • Our risk assessment, including our understanding of the entity and its environment; • Our assessment of the Group's overall control environment. <p>We also considered the level of change in the business from the prior year.</p>	

6.3 Error reporting threshold

We agreed with the Audit & Risk Committee that we would report to the Committee all audit differences in excess of £6.75 million (2021: £6 million), as well as differences below that threshold that, in our view, warranted reporting on qualitative grounds. We also report to the Audit & Risk Committee on disclosure matters that we identified when assessing the overall presentation of the financial statements.

7. An overview of the scope of our audit

7.1 Identification and scoping of components

Our audit was scoped by obtaining an understanding of the Group and its environment and assessing the risks of material misstatements at the Group level. We used data analytics tools and specialists to help inform our understanding of the business, identify key risk areas and evaluate the level of audit coverage required.

The UK Electricity Transmission, UK Gas Transmission, UK Electricity System Operator, UK Electricity Distribution and US regulated (comprising the New York and New England business units) components were subject to a full-scope audit for Group reporting purposes, completed to the individual component materiality levels set out below.

In addition to the above components subject to full scope audit procedures by the component teams, we have identified three other business units which form part of National Grid Ventures and Other, where we consider there to be a reasonable possibility of material misstatement in specific items within the financial statements: National Grid Ventures UK, Genco and UK Property. Accordingly, we have directed component auditors to perform specific audit procedures in relation to material account balances and analytical procedures on the respective income statements and statements of financial position for these components.

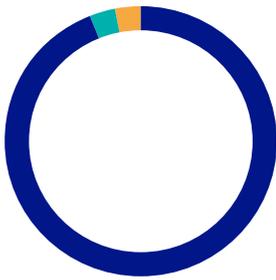
Business unit	Audit scope	Component materiality
UK Electricity Transmission	Full-scope audit	£48 million
UK Gas Transmission	Full-scope audit	£43 million
UK Electricity System Operator	Full-scope audit	£48 million
UK Electricity Distribution	Full-scope audit	£48 million
US regulated (comprising New York and New England)	Full-scope audit	£81 million
National Grid Ventures UK	Audit of specified account balances	£26 million
Genco (comprising US generating assets)	Audit of specified account balances	£26 million
UK Property	Audit of specified account balances	£26 million

In addition to the work performed at a component level, the Group audit team performed audit procedures on the Parent Company financial statements, including but not limited to corporate activities such as treasury as well as on the consolidated financial statements themselves, including entity-level controls, litigation provisions, the consolidation, financial statement disclosures and risk assessment work on components not included elsewhere in the scope of our audit. The Group audit team also performed analytical reviews on out-of-scope components, led the work in connection with the impact of climate change on the useful lives of the Group's gas assets and co-ordinated certain procedures performed on key areas, such as the WPD purchase price allocation and goodwill impairment and environmental provisions, where audit work is performed by both the Group and component audit teams.

The scope and risk assessment of our audit is broadly consistent with the prior year and our audit coverage of 'Revenue', 'Profit before tax' and 'Net assets' is materially the same as in the prior year.

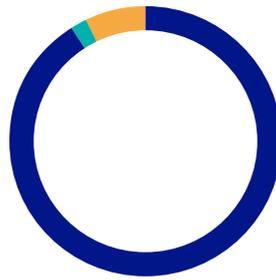
7.1 Identification and scoping of components continued

Revenue



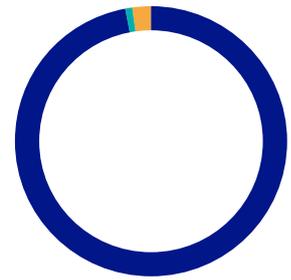
◆ Full audit scope	94%
◆ Specified audit procedures	3%
◆ Review at Group level	3%

Profit before tax



◆ Full audit scope	91%
◆ Specified audit procedures	2%
◆ Review at Group level	7%

Net assets



◆ Full audit scope	97%
◆ Specified audit procedures	1%
◆ Review at Group level	2%

7.2. Our consideration of the control environment

Our audit approach was generally to place reliance on management's relevant controls over all business cycles affecting in-scope financial statement line items. We tested controls through a combination of tests of inquiry, observation, inspection and re-performance.

In limited circumstances where controls were deficient and there were not sufficient mitigating or alternative controls we could rely on, we adopted a non-controls reliance approach. All control deficiencies which we considered to be significant were communicated to the Audit & Risk Committee. All other deficiencies were communicated to management. For all deficiencies identified, we considered the impact and updated our audit plan accordingly.

The Group's financial systems environment relies on a high number of UK and US applications. In the current year, we scoped 44 IT systems as relevant to the audit. These systems are all directly or indirectly relevant to the entity's financial reporting process.

We planned to rely on the General IT Controls (GITCs) associated with these systems, where the GITCs were appropriately designed and implemented, and these were operating effectively. To assess the operating effectiveness of GITCs, our IT audit specialists performed testing on access security, change management, data centre operations and network operations.

7.3. Our consideration of climate-related risks

Climate change impacts National Grid's business in a number of ways as set out in the Strategic Report on page 30 of the Annual Report and note 1 to the financial statements on page 154. It represents a key strategic consideration of management.

We reviewed management's climate change risk assessment and evaluated the completeness of identified risks and the impact on the financial statements. We also considered the impact of climate change in our own risk assessment procedures. Management's assessment included an overview of the legislative changes in the US, key developments post COP26 and an evaluation of the possible future use of National Grid's US gas assets in a net zero carbon energy system. Both management's and our risk assessment identified the useful economic lives of the gas assets in the US, as the key risk as described in note 13 to the financial statements and in the Audit & Risk Committee Report (page 102). Our response to this risk is documented in our Key Audit Matter on pages 139 – 140.

In addition to the procedures in respect of the Key Audit Matter mentioned above, with the involvement of our climate change specialists we:

- read the climate-related statements made by management (as disclosed in 'The Environment' section of the 'Our commitment to being a responsible business' in the Strategic Report) and considered whether these were in line with our understanding of management's approach to climate change and the narrative reporting was in line with financial statements and the knowledge obtained throughout the audit; and
- read the Task Force on Climate-related Financial Disclosures (TCFD) and considered if any of the information disclosed was inconsistent with the information we obtained through our audit.

7.4. Working with other auditors

The Group audit team is responsible for the scope and direction of the audit process and provide direct oversight, review and coordination of our component audit teams.

As each of the financially significant components maintains separate financial records, we have engaged component auditors from the Deloitte member firms in the US or the UK to perform procedures at these components on our behalf. This approach allows us to engage local auditors who have appropriate knowledge of local regulations to perform this audit work. We issued detailed instructions to the component auditors and directed and supervised their work.

We interacted regularly with the component Deloitte teams during each stage of the audit and reviewed key working papers. We maintained continuous and open dialogue with our component teams in addition to holding formal meetings to ensure that we were fully aware of their progress and the results of their procedures.

Our oversight of component auditors focused on the planning of their audit work and key judgements made. In particular, our supervision and direction focused on the work performed in relation to key estimates and judgements made by management. As part of our monitoring of component auditors, we participated in key local audit meetings.

The senior statutory auditor and other Group audit partners conducted visits to meet in person with the component teams responsible for the full-scope locations, which was supplemented by procedures performed remotely throughout the year. Their involvement included attending planning meetings, discussing the audit approach and any issues arising from the component team's work, meetings with local management, and reviewing key audit working papers on higher and significant risk areas to drive a consistent and high quality audit. The level of involvement of the lead audit partner and the Group audit team in the component audits has been extensive and we are satisfied that it has enabled us to conclude that sufficient appropriate audit evidence has been obtained in support of our opinion on the Group financial statements as a whole.

Independent Auditor's Report to the members of National Grid plc continued

8. Other information

The other information comprises the information included in the Annual Report, other than the financial statements and our auditor's report thereon. The Directors are responsible for the other information contained within the Annual Report.

We have nothing to report in this regard.

Our opinion on the financial statements does not cover the other information and, except to the extent otherwise explicitly stated in our report, we do not express any form of assurance conclusion thereon.

Our responsibility is to read the other information and, in doing so, consider whether the other information is materially inconsistent with the financial statements or our knowledge obtained in the course of the audit, or otherwise appears to be materially misstated.

If we identify such material inconsistencies or apparent material misstatements, we are required to determine whether this gives rise to a material misstatement in the financial statements themselves. If, based on the work we have performed, we conclude that there is a material misstatement of this other information, we are required to report that fact.

9. Responsibilities of Directors

As explained more fully in the Statement of Directors' responsibilities, the Directors are responsible for the preparation of the financial statements and for being satisfied that they give a true and fair view, and for such internal control as the Directors determine is necessary to enable the preparation of financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the financial statements, the Directors are responsible for assessing the Group's and the Parent Company's ability to continue as a going concern, disclosing as applicable, matters related to going concern and using the going concern basis of accounting unless the Directors either intend to liquidate the Group or the Parent Company or to cease operations, or have no realistic alternative but to do so.

10. Auditor's responsibilities for the audit of the financial statements

Our objectives are to obtain reasonable assurance about whether the financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with ISAs (UK) will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these financial statements.

A further description of our responsibilities for the audit of the financial statements is located on the FRC's website at: www.frc.org.uk/auditorsresponsibilities. This description forms part of our auditor's report.

11. Extent to which the audit was considered capable of detecting irregularities, including fraud or non-compliance with laws and regulations

Irregularities, including fraud, are instances of non-compliance with laws and regulations. We design procedures in line with our responsibilities, outlined above, to detect material misstatements in respect of irregularities, including fraud. The extent to which our procedures are capable of detecting irregularities, including fraud, is detailed below.

11.1 Identifying and assessing potential risks related to irregularities

In identifying and assessing risks of material misstatement in respect of irregularities, including fraud or non-compliance with laws and regulations, we considered the following:

- the nature of the industry and sector, control environment and business performance including the design of the Group's remuneration policies, key drivers for Directors' remuneration, bonus levels and performance targets;
- the Group's own assessment of the risks that irregularities may occur either as a result of fraud or error that was approved by the Audit & Risk Committee on 22 March 2022;
- results of our enquiries of management, internal audit, and the Audit & Risk Committee about their own identification and assessment of the risks of irregularities;
- any matters we identified having obtained and reviewed the Group's documentation of their policies and procedures relating to:
 - identifying, evaluating and complying with laws and regulations and whether they were aware of any instances of non-compliance;
 - detecting and responding to the risks of fraud and whether they have knowledge of any actual, suspected or alleged fraud;
 - responding to the allegations of fraud and bribery against former National Grid employees in the US business (as set out in the Audit & Risk Committee report on page 101); and
 - the internal controls established to mitigate risks of fraud or non-compliance with laws and regulations; and
- the matters discussed among the engagement team and our specialists regarding how and where fraud might occur in the financial statements and any potential indicators of fraud. The engagement team includes partners and staff who have extensive experience of working with companies in the same sectors as National Grid operates, and this experience was relevant to the discussion about where fraud risks may arise. Fraud specialists also advised the engagement team of fraud schemes that had arisen in similar sectors and industries, and they participated in the initial fraud risk assessment discussions.

In common with all audits under ISAs (UK), we are also required to perform specific procedures to respond to the risk of management override of controls.

We also obtained an understanding of the legal and regulatory frameworks that the Group operates in, focusing on provisions of those laws and regulations that had a direct effect on the determination of material amounts and disclosures in the financial statements. The key laws and regulations we considered in this context included the UK Companies Act 2006, Listing Rules, pensions legislation, tax legislation, the UK Corporate Governance Code, IFRS as issued by the IASB, United Kingdom adopted international accounting standards, FRS 101, as well as the US Securities Exchange Act 1934 and relevant SEC regulations, and laws and regulations prevailing in each country which we identified a full-scope component.

In addition, we considered provisions of other laws and regulations that do not have a direct effect on the financial statements but compliance with which may be fundamental to the Group's ability to operate or to avoid a material penalty. These included the Group's operating licences and environmental regulations.

11.2. Audit response to risks identified

As a result of performing the above, we did not identify any key audit matters related to the potential risk of fraud or non-compliance with laws and regulations.

Our procedures to respond to risks identified included the following:

- reviewing the financial statement disclosures and testing to supporting documentation to assess compliance with provisions of relevant laws and regulations described as having a direct effect on the financial statements;
- inquiring of management, the Audit & Risk Committee and in-house legal counsel concerning actual and potential litigation and claims;
- obtaining confirmations from external legal counsel concerning open litigation and claims;
- reading minutes of meetings of those charged with governance, reviewing internal audit reports and reviewing correspondence with relevant regulatory authorities; and
- reviewing the outcome of the alleged fraud and bribery investigations as well as testing the design of the entity-level controls, particularly in respect of the whistleblowing process.

In addressing the risk of fraud through management override of controls our procedures included:

- making enquiries of individuals involved in the financial reporting process about inappropriate or unusual activity relating to the processing of journal entries and other adjustments;
- using our data analytics tools, we selected and tested journal entries and other adjustments which were either made at the end of a reporting period or which identified activity that exhibited certain characteristics of audit interest;
- assessing whether the judgements made in making accounting estimates are indicative of a potential bias;
- performing analytical procedures to identify any unusual or unexpected relationships that may indicate risks of material misstatement due to fraud; and
- considering whether there were any significant transactions that are outside the normal course of business, or that otherwise appear to be unusual due to their nature, timing or size.

We also communicated relevant identified laws and regulations and potential fraud risks to all engagement team members including internal specialists and significant component audit teams. We remained alert to any indications of fraud or non-compliance with laws and regulations throughout the audit.

Independent Auditor's Report to the members of National Grid plc continued

Report on other legal and regulatory requirements

12. Opinions on other matters prescribed by the Companies Act 2006

In our opinion the part of the Directors' Remuneration Report to be audited has been properly prepared in accordance with the Companies Act 2006.

In our opinion, based on the work undertaken in the course of the audit:

- the information given in the Strategic Report and the Directors' Report for the financial year for which the financial statements are prepared is consistent with the financial statements; and
- the Strategic Report and the Directors' Report have been prepared in accordance with applicable legal requirements.

In the light of the knowledge and understanding of the Group and the Parent Company and their environment obtained in the course of the audit, we have not identified any material misstatements in the Strategic Report or the Directors' Report.

13. Corporate Governance Statement

The Listing Rules require us to review the Directors' statement in relation to going concern, longer-term viability and that part of the Corporate Governance Statement relating to the Group's compliance with the provisions of the UK Corporate Governance Code specified for our review.

Based on the work undertaken as part of our audit, we have concluded that each of the following elements of the Corporate Governance Statement is materially consistent with the financial statements and our knowledge obtained during the audit:

- the Directors' statement with regard to the appropriateness of adopting the going concern basis of accounting and any material uncertainties identified set out on page 153;
- the Directors' explanation as to its assessment of the Group's prospects, the period this assessment covers and why the period is appropriate set out on pages 33 – 35;
- the Directors' statement on fair, balanced and understandable set out on pages 101 and 134;
- the Board's confirmation that it has carried out a robust assessment of the emerging and principal risks set out on pages 28 – 32 and 94;
- the section of the Annual Report that describes the review of effectiveness of risk management and internal control systems set out on pages 28 – 32; and
- the section describing the work of the Audit & Risk Committee set out on pages 101 – 105.

14. Matters on which we are required to report by exception

14.1 Adequacy of explanations received and accounting records

Under the Companies Act 2006 we are required to report to you if, in our opinion:

We have nothing to report in respect of these matters.

- we have not received all the information and explanations we require for our audit; or
- adequate accounting records have not been kept by the Parent Company, or returns adequate for our audit have not been received from branches not visited by us; or
- the Parent Company financial statements are not in agreement with the accounting records and returns.

14.2 Directors' remuneration

Under the Companies Act 2006 we are also required to report if in our opinion certain disclosures of Directors' remuneration have not been made or the part of the Directors' Remuneration Report to be audited is not in agreement with the accounting records and returns.

We have nothing to report in respect of these matters.

15. Other matters which we are required to address

15.1 Auditor tenure

We became independent and commenced our audit transition on 1 January 2017. Following the recommendation of the Audit & Risk Committee, we were appointed by the shareholders at the Annual General Meeting on 31 July 2017 to audit the financial statements for the year ending 31 March 2018 and subsequent financial periods.

The period of total uninterrupted engagement including previous renewals and reappointments of the firm is five years, covering the years ending 31 March 2018 to 31 March 2022.

15.2 Consistency of the audit report with the additional report to the Audit & Risk Committee

Our audit opinion is consistent with the additional report to the Audit & Risk Committee we are required to provide in accordance with ISAs (UK).

16. Use of our report

This report is made solely to the company's members, as a body, in accordance with Chapter 3 of Part 16 of the Companies Act 2006. Our audit work has been undertaken so that we might state to the Company's members those matters we are required to state to them in an auditor's report and for no other purpose. To the fullest extent permitted by law, we do not accept or assume responsibility to anyone other than the Company and the Company's members as a body, for our audit work, for this report, or for the opinions we have formed.

As required by the Financial Conduct Authority (FCA) Disclosure Guidance and Transparency Rule (DTR) 4.1.14R, these financial statements form part of the European Single Electronic Format (ESEF) prepared Annual Financial Report filed on the National Storage Mechanism of the UK FCA in accordance with the ESEF Regulatory Technical Standard ('ESEF RTS'). This auditor's report provides no assurance over whether the annual financial report has been prepared using the single electronic format specified in the ESEF RTS.

Douglas King FCA (Senior statutory auditor) For and on behalf of Deloitte LLP

Statutory Auditor
London, United Kingdom
18 May 2022

Consolidated income statement

for the years ended 31 March

		Before exceptional items and remeasurements £m	Exceptional items and remeasurements (note 5) £m	Total £m
2022	Notes			
Continuing operations				
Revenue	2(a),3,5	18,260	189	18,449
Provision for bad and doubtful debts	4	(167)	—	(167)
Other operating income/(costs)	4,5	(14,280)	369	(13,911)
Operating profit	2(b)	3,813	558	4,371
Finance income	5,6	65	(15)	50
Finance costs	5,6	(1,146)	74	(1,072)
Share of post-tax results of joint ventures and associates	5,16	148	(56)	92
Profit before tax	2(b),5	2,880	561	3,441
Tax	5,7	(669)	(589)	(1,258)
Profit after tax from continuing operations		2,211	(28)	2,183
Profit after tax from discontinued operations	10	344	(173)	171
Total profit for the year (continuing and discontinued)		2,555	(201)	2,354
Attributable to:				
Equity shareholders of the parent		2,554	(201)	2,353
Non-controlling interests from continuing operations		1	—	1
Earnings per share (pence)				
Basic earnings per share (continuing)	8			60.6
Diluted earnings per share (continuing)	8			60.3
Basic earnings per share (continuing and discontinued)	8			65.4
Diluted earnings per share (continuing and discontinued)	8			65.0
2021¹	Notes	Before exceptional items and remeasurements £m	Exceptional items and remeasurements (note 5) £m	Total £m
Continuing operations				
Revenue	2(a),3	13,665	—	13,665
Provision for bad and doubtful debts	4	(325)	—	(325)
Other operating income/(costs)	4,5	(10,913)	(26)	(10,939)
Operating profit	2(b)	2,427	(26)	2,401
Finance income	5,6	35	23	58
Finance costs	5,6	(900)	47	(853)
Share of post-tax results of joint ventures and associates	5,16	66	(8)	58
Profit before tax	2(b),5	1,628	36	1,664
Tax	5,7	(334)	(26)	(360)
Profit after tax from continuing operations		1,294	10	1,304
Profit after tax from discontinued operations	10	340	(3)	337
Total profit for the year (continuing and discontinued)		1,634	7	1,641
Attributable to:				
Equity shareholders of the parent		1,633	7	1,640
Non-controlling interests from continuing operations		1	—	1
Earnings per share (pence)				
Basic earnings per share (continuing)	8			37.0
Diluted earnings per share (continuing)	8			36.8
Basic earnings per share (continuing and discontinued)	8			46.6
Diluted earnings per share (continuing and discontinued)	8			46.3

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

Consolidated income statement

for the years ended 31 March continued

2020 ¹	Notes	Before exceptional items and remeasurements £m	Exceptional items and remeasurements (note 5) £m	Total £m
Continuing operations				
Revenue	2(a),3	13,360	—	13,360
Provision for bad and doubtful debts	4	(234)	—	(234)
Other operating income/(costs)	4,5	(10,322)	(525)	(10,847)
<i>Operating profit</i>	2(b)	2,804	(525)	2,279
Finance income	5,6	70	(16)	54
Finance costs	5,6	(999)	(21)	(1,020)
Share of post-tax results of joint ventures and associates	5,16	88	(1)	87
<i>Profit before tax</i>	2(b),5	1,963	(563)	1,400
Tax	5,7	(362)	(8)	(370)
Profit after tax from continuing operations		1,601	(571)	1,030
Profit after tax from discontinued operations	10	317	(82)	235
Total profit for the year (continuing and discontinued)		1,918	(653)	1,265
Attributable to:				
Equity shareholders of the parent		1,917	(653)	1,264
Non-controlling interests from continuing operations		1	—	1
Earnings per share (pence)				
Basic earnings per share (continuing)	8			29.7
Diluted earnings per share (continuing)	8			29.6
Basic earnings per share (continuing and discontinued)	8			36.5
Diluted earnings per share (continuing and discontinued)	8			36.3

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

Consolidated statement of comprehensive income

for the years ended 31 March

	Notes	2022 £m	2021 ¹ £m	2020 ¹ £m
Profit after tax from continuing operations		2,183	1,304	1,030
Profit after tax from discontinued operations		171	337	235
Other comprehensive income from continuing operations				
<i>Items from continuing operations that will never be reclassified to profit or loss:</i>				
Remeasurement gains/(losses) on pension assets and post-retirement benefit obligations	25	2,172	1,658	(782)
Net gains/(losses) on equity instruments designated at fair value through other comprehensive income		12	46	(9)
Net losses in respect of cash flow hedging of capital expenditure		(1)	(12)	(17)
Tax on items that will never be reclassified to profit or loss	7	(496)	(472)	232
Total items from continuing operations that will never be reclassified to profit or loss		1,687	1,220	(576)
<i>Items from continuing operations that may be reclassified subsequently to profit or loss:</i>				
Retranslation of net assets offset by net investment hedge		630	(1,347)	561
Net (losses)/gains in respect of cash flow hedges		(57)	67	(121)
Net gains/(losses) in respect of cost of hedging		1	20	(80)
Net (losses)/gains on investment in debt instruments measured at fair value through other comprehensive income		(11)	80	(15)
Share of other comprehensive income/(losses) of associates, net of tax		1	1	(5)
Tax on items that may be reclassified subsequently to profit or loss	7	15	(8)	33
Total items from continuing operations that may be reclassified subsequently to profit or loss		579	(1,187)	373
Other comprehensive income/(loss) for the year, net of tax from continuing operations		2,266	33	(203)
Other comprehensive income/(loss) for the year, net of tax from discontinued operations	10	211	(216)	38
Other comprehensive income/(loss) for the year, net of tax		2,477	(183)	(165)
Total comprehensive income for the year from continuing operations		4,449	1,337	827
Total comprehensive income for the year from discontinued operations	10	382	121	273
Total comprehensive income for the year		4,831	1,458	1,100
Attributable to:				
<i>Equity shareholders of the parent</i>				
From continuing operations		4,447	1,338	825
From discontinued operations		382	121	273
		4,829	1,459	1,098
<i>Non-controlling interests</i>				
From continuing operations		2	(1)	2

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

Consolidated statement of changes in equity

for the years ended 31 March

	Share capital £m	Share premium account £m	Retained earnings £m	Other equity reserves ¹ £m	Total shareholders' equity £m	Non-controlling interests £m	Total equity £m
At 31 March 2019	458	1,314	21,999	(4,223)	19,548	20	19,568
Profit for the year	—	—	1,264	—	1,264	1	1,265
Other comprehensive (loss)/income for the year	—	—	(509)	343	(166)	1	(165)
Total comprehensive income for the year	—	—	755	343	1,098	2	1,100
Equity dividends	—	—	(892)	—	(892)	—	(892)
Scrip dividend-related share issue ²	12	(13)	—	—	(1)	—	(1)
Issue of treasury shares	—	—	17	—	17	—	17
Purchase of own shares	—	—	(6)	—	(6)	—	(6)
Share-based payments	—	—	19	—	19	—	19
Tax on share-based payments	—	—	3	—	3	—	3
Cash flow hedges transferred to the statement of financial position, net of tax	—	—	—	(15)	(15)	—	(15)
At 1 April 2020	470	1,301	21,895	(3,895)	19,771	22	19,793
Profit for the year	—	—	1,640	—	1,640	1	1,641
Other comprehensive income/(loss) for the year	—	—	1,001	(1,182)	(181)	(2)	(183)
Total comprehensive income/(loss) for the year	—	—	2,641	(1,182)	1,459	(1)	1,458
Equity dividends	—	—	(1,413)	—	(1,413)	—	(1,413)
Scrip dividend-related share issue ²	4	(5)	—	—	(1)	—	(1)
Issue of treasury shares	—	—	17	—	17	—	17
Purchase of own shares	—	—	(2)	—	(2)	—	(2)
Share-based payments	—	—	27	—	27	—	27
Tax on share-based payments	—	—	(2)	—	(2)	—	(2)
Cash flow hedges transferred to the statement of financial position, net of tax	—	—	—	(17)	(17)	—	(17)
At 1 April 2021	474	1,296	23,163	(5,094)	19,839	21	19,860
Profit for the year	—	—	2,353	—	2,353	1	2,354
Other comprehensive income for the year	—	—	1,871	605	2,476	1	2,477
Total comprehensive income for the year	—	—	4,224	605	4,829	2	4,831
Equity dividends	—	—	(922)	—	(922)	—	(922)
Scrip dividend-related share issue ²	11	(12)	—	—	(1)	—	(1)
Issue of treasury shares	—	—	17	—	17	—	17
Transactions in own shares	—	16	(3)	—	13	—	13
Share-based payments	—	—	43	—	43	—	43
Tax on share-based payments	—	—	7	—	7	—	7
Transfer of accumulated gains and losses on sale of equity investments ³	—	—	82	(82)	—	—	—
Cash flow hedges transferred to the statement of financial position, net of tax	—	—	—	8	8	—	8
At 31 March 2022	485	1,300	26,611	(4,563)	23,833	23	23,856

1. For further details of other equity reserves, see note 28.

2. Included within the share premium account are costs associated with scrip dividends.

3. In the year ended 31 March 2022, the Group disposed of its equity instruments related to shares held as part of a portfolio of financial instruments which back some long-term employee liabilities. The equity instruments were previously measured at FVOCI and prior to the disposal the Group recognised a gain of £12 million in the year. The accumulated gain and losses of £82 million recognised in other comprehensive income were transferred to retained earnings on disposal (see note 15).

Consolidated statement of financial position

as at 31 March

	Notes	2022 £m	2021 £m
<i>Non-current assets</i>			
Goodwill	11	9,532	4,588
Other intangible assets	12	3,272	1,443
Property, plant and equipment	13	57,532	47,043
Other non-current assets	14	303	293
Pension assets	25	3,885	1,747
Financial and other investments	15	830	755
Investments in joint ventures and associates	16	1,238	867
Derivative financial assets	17	305	542
Total non-current assets		76,897	57,278
<i>Current assets</i>			
Inventories and current intangible assets	18	511	439
Trade and other receivables	19	3,715	2,919
Current tax assets		106	67
Financial and other investments	15	3,145	2,342
Derivative financial assets	17	282	457
Cash and cash equivalents	20	204	157
Assets held for sale	10	10,000	3,557
Total current assets		17,963	9,938
Total assets		94,860	67,216
<i>Current liabilities</i>			
Borrowings	21	(12,121)	(3,737)
Derivative financial liabilities	17	(144)	(145)
Trade and other payables	22	(4,915)	(3,517)
Contract liabilities	23	(130)	(66)
Current tax liabilities		(32)	(75)
Provisions	26	(240)	(260)
Liabilities held for sale	10	(7,188)	(1,568)
Total current liabilities		(24,770)	(9,368)
<i>Non-current liabilities</i>			
Borrowings	21	(33,344)	(27,483)
Derivative financial liabilities	17	(869)	(754)
Other non-current liabilities	24	(805)	(843)
Contract liabilities	23	(1,342)	(1,094)
Deferred tax liabilities	7	(6,765)	(4,815)
Pensions and other post-retirement benefit obligations	25	(810)	(1,032)
Provisions	26	(2,299)	(1,967)
Total non-current liabilities		(46,234)	(37,988)
Total liabilities		(71,004)	(47,356)
Net assets		23,856	19,860
<i>Equity</i>			
Share capital	27	485	474
Share premium account		1,300	1,296
Retained earnings		26,611	23,163
Other equity reserves	28	(4,563)	(5,094)
Total shareholders' equity		23,833	19,839
Non-controlling interests		23	21
Total equity		23,856	19,860

The consolidated financial statements set out on pages 147 – 234 were approved by the Board of Directors on 18 May 2022 and were signed on its behalf by:

Paula Rosput Reynolds Chair
Andy Agg Chief Financial Officer

National Grid plc
Registered number: 4031152

Consolidated cash flow statement

for the years ended 31 March

	Notes	2022 £m	2021 ¹ £m	2020 ¹ £m
<i>Cash flows from operating activities</i>				
Total operating profit from continuing operations	2(b)	4,371	2,401	2,279
Adjustments for:				
Exceptional items and remeasurements	5	(558)	26	525
Other fair value movements		(65)	(22)	—
Depreciation, amortisation and impairment		1,830	1,485	1,435
Share-based payments		38	23	16
Changes in working capital		361	279	217
Changes in provisions		140	(167)	(138)
Changes in pensions and other post-retirement benefit obligations		(76)	(16)	(58)
Cash flows relating to exceptional items		(253)	(42)	(36)
Cash generated from operations – continuing operations		5,788	3,967	4,240
Tax paid		(298)	(91)	(92)
Net cash inflow from operating activities – continuing operations		5,490	3,876	4,148
Net cash inflow from operating activities – discontinued operations		782	585	470
<i>Cash flows from investing activities</i>				
Acquisition of financial investments		(197)	(99)	(108)
Acquisition of, and contributions to National Grid Renewables and Emerald Energy Venture LLC		(16)	(26)	(139)
Acquisition of WPD ²	37	(7,837)	—	—
Investments in joint ventures and associates		(265)	(81)	(82)
Disposal of financial investments		215	66	63
Disposal of interests in Quadgas HoldCo Limited	10	—	—	1,965
Disposal of interest in St William Homes LLP	16	413	—	—
Purchases of intangible assets		(446)	(399)	(295)
Purchases of property, plant and equipment		(5,098)	(4,209)	(4,291)
Disposals of property, plant and equipment		26	7	66
Dividends received from joint ventures, associates and other investments		166	80	75
Interest received		40	16	73
Net movements in short-term financial investments		(781)	(438)	12
Cash inflows on derivatives		17	225	58
Cash outflows on derivatives		(122)	(81)	(281)
Net cash flow used in investing activities – continuing operations		(13,885)	(4,939)	(2,884)
Net cash flow used in investing activities – discontinued operations		(125)	(177)	(311)
<i>Cash flows from financing activities</i>				
Proceeds from issue of treasury shares		33	16	16
Purchase of own shares		(3)	(2)	(6)
Proceeds received from loans	29(c)	12,347	5,150	3,921
Repayment of loans	29(c)	(1,261)	(1,654)	(3,037)
Payments of lease liabilities	29(c)	(117)	(107)	(115)
Net movements in short-term borrowings	29(c)	(11)	(619)	(562)
Cash inflows on derivatives	29(c)	20	17	46
Cash outflows on derivatives	29(c)	(114)	(183)	(245)
Interest paid	29(c)	(1,053)	(753)	(867)
Dividends paid to shareholders	9	(922)	(1,413)	(892)
Net cash flow from/(used in) financing activities – continuing operations		8,919	452	(1,741)
Net cash flow (used in)/from financing activities – discontinued operations		(1,150)	298	135
Net increase/(decrease) in cash and cash equivalents	29(b)	31	95	(183)
Reclassification to held for sale	10,29(b)	(11)	(4)	—
Exchange movements	29(b)	5	(7)	4
Cash and cash equivalents at start of year		157	73	252
Cash and cash equivalents at end of year³	20	182	157	73

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

2. Balance consists of cash consideration paid and cash acquired from WPD.

3. Cash and cash equivalents at end of year are shown net of the Group's bank overdraft as at 31 March 2022 of £22 million (2021: £nil; 2020: £nil).

Notes to the consolidated financial statements

1. Basis of preparation and recent accounting developments

Accounting policies describe our approach to recognising and measuring transactions and balances in the year. The accounting policies applicable across the financial statements are shown below, whereas accounting policies that are specific to a component of the financial statements have been incorporated into the relevant note.

This section also shows areas of judgement and key sources of estimation uncertainty in these financial statements. In addition, we have summarised new International Accounting Standards Board (IASB) and UK endorsed accounting standards, amendments and interpretations and whether these are effective for this year end or in later years, explaining how significant changes are expected to affect our reported results.

National Grid's principal activities involve the transmission and distribution of electricity in Great Britain and electricity and gas in northeastern US. The Company is a public limited liability company incorporated and domiciled in England and Wales, with its registered office at 1–3 Strand, London WC2N 5EH.

The Company, National Grid plc, which is the ultimate parent of the Group, has its primary listing on the London Stock Exchange and is also quoted on the New York Stock Exchange.

These consolidated financial statements were approved for issue by the Board on 18 May 2022.

These consolidated financial statements have been prepared in accordance with International Accounting Standards (IAS) and International Financial Reporting Standards (IFRS) and related interpretations as issued by the IASB and IFRS as adopted by the UK. They are prepared on the basis of all IFRS accounting standards and interpretations that are mandatory for the period ended 31 March 2022 and in accordance with the Companies Act 2006. The comparative financial information has also been prepared on this basis.

The consolidated financial statements have been prepared on a historical cost basis, except for the recording of pension assets and liabilities, the revaluation of derivative financial instruments and certain commodity contracts and certain financial assets and liabilities measured at fair value.

These consolidated financial statements are presented in pounds sterling, which is also the functional currency of the Company.

The notes to the financial statements have been prepared on a continuing basis unless otherwise stated.

Our income statement and segmental analysis separately identify financial results before and after exceptional items and remeasurements. We continue to use a columnar presentation as we consider it improves the clarity of the presentation, is consistent with the way that financial performance is measured by management and reported to the Board and the Executive Committee, and assists users of the financial statements to understand the results. The inclusion of total profit for the period from continuing operations before exceptional items and remeasurements is used to derive part of the incentive target set annually for remunerating certain Executive Directors and accordingly we believe it is important for users of the financial statements to understand how this compares with our results on a statutory basis and period on period.

A. Going concern

As part of the Directors' consideration of the appropriateness of adopting the going concern basis of accounting in preparing these financial statements, the Directors have considered the impact of the planned disposals of The Narragansett Electric Company (NECO) and the UK Gas Transmission business (see note 10) and the financing for the acquisition of PPL Western Power Distribution (WPD) (see note 33). The Directors have assessed the principal risks discussed on pages 28 – 32, including by modelling both a base case and a reasonable worst-case scenario.

The main cash flow impacts identified in the reasonable worst-case scenario are:

- additional potential working capital requirements in response to energy price increases driven by the wider energy market stability challenges and the conflict between Russia and Ukraine;
- adverse impacts of inflation on our capex programme;
- adverse impact from timing across the Group, i.e. a net under-recovery of allowed revenues or reductions in over-collections;
- a significant reduction in cash collections driven by lower customer demand and increased bad debt in our US businesses and potential supplier defaults in our UK business;
- higher cash outflow than expected following the Sellindge Interconnector fire;
- higher operating costs than expected; or non-delivery of planned efficiencies across the Group; and
- the potential impact of further significant storm costs in the US.

As part of their analysis, the Board also considered the following potential levers at their discretion to improve the position identified by the analysis if the debt capital markets are not accessible:

- the payment of dividends to shareholders;
- significant changes in the phasing of the Group's capital programme, with elements of non-essential works and programmes delayed; and
- a number of further reductions in operating expenditure across the Group primarily related to workforce cost reductions in both the UK and the US.

Having considered the reasonable worst-case scenario, the impact and timing of the planned strategic transactions, and the further levers at the Board's discretion, the Group continues to have headroom against the Group's committed facilities identified in note 33 to the financial statements.

In addition to the above, the ability to raise new and extend existing financing was separately included in the analysis, and the Directors noted the c.£4.2 billion of new long-term senior debt issued in the period from 1 April to 31 March 2022 as evidence of the Group's ability to continue to have access to the debt capital markets if needed.

Based on the above, the Directors have concluded the Group is well placed to manage its financing and other business risks satisfactorily and have a reasonable expectation that the Group will have adequate resources to continue in operation for at least 12 months from the signing date of these consolidated financial statements. They therefore consider it appropriate to adopt the going concern basis of accounting in preparing the financial statements.

Notes to the consolidated financial statements continued

1. Basis of preparation and recent accounting developments continued

B. Basis of consolidation

The consolidated financial statements incorporate the results, assets and liabilities of the Company and its subsidiaries, together with a share of the results, assets and liabilities of joint operations.

A subsidiary is defined as an entity controlled by the Group. Control is achieved where the Group is exposed to, or has the rights to, variable returns from its involvement with the entity and has the ability to affect those returns through its power over the entity.

The Group accounts for joint ventures and associates using the equity method of accounting, where the investment is carried at cost plus post-acquisition changes in the share of net assets of the joint venture or associate, less any provision for impairment. Losses in excess of the consolidated interest in joint ventures and associates are not recognised, except where the Company or its subsidiaries have made a commitment to make good those losses.

Where necessary, adjustments are made to bring the accounting policies used in the individual financial statements of the Company, subsidiaries, joint operations, joint ventures and associates into line with those used by the Group in its consolidated financial statements under IFRS. Intercompany transactions are eliminated.

The results of subsidiaries, joint operations, joint ventures and associates acquired or disposed of during the year are included in the consolidated income statement from the effective date of acquisition or up to the effective date of disposal, as appropriate.

Acquisitions are accounted for using the acquisition method, where the purchase price is allocated to the identifiable assets acquired and liabilities assumed on a fair value basis and the remainder recognised as goodwill.

C. Foreign currencies

Transactions in currencies other than the functional currency of the Company or subsidiary concerned are recorded at the rates of exchange prevailing on the dates of the transactions. At each reporting date, monetary assets and liabilities that are denominated in foreign currencies are retranslated at closing exchange rates. Non-monetary assets are not retranslated unless they are carried at fair value.

Gains and losses arising on the retranslation of monetary assets and liabilities are included in the income statement, except where the application of hedge accounting requires inclusion in other comprehensive income (see note 32(e)).

On consolidation, the assets and liabilities of operations that have a functional currency different from the Company's functional currency of pounds sterling, principally our US operations that have a functional currency of US dollars, are translated at exchange rates prevailing at the reporting date. Income and expense items are translated at the average exchange rates for the period where these do not differ materially from rates at the date of the transaction. Exchange differences arising are recognised in other comprehensive income and transferred to the consolidated translation reserve within other equity reserves (see note 28).

D. Disposal of The Narragansett Electric Company

As described further in note 10, on 17 March 2021, the Group signed an agreement to sell 100% of the share capital of a wholly owned subsidiary, NECO. Whilst all of the regulatory approvals are in place, the disposal of NECO was not finalised as at 31 March 2022 due to the appeal of one of these approvals by the Rhode Island Attorney General.

The associated assets and liabilities have been presented as held for sale in the consolidated statement of financial position. As NECO does not represent either a major line of business or a geographical area of operations, it has not met the criteria for classification as a discontinued operation and therefore its results for the period are not separately disclosed on the face of the income statement.

E. Disposal of UK Gas Transmission

As described further in note 10, on 27 March 2022, the Group agreed to sell 100% of the UK Gas Transmission business to a new entity (the 'Acquiring Entity') in exchange for £4.2 billion cash consideration (subject to customary completion adjustments) and a 40% interest in the Acquiring Entity. The sale is expected to complete in the third quarter of the financial year ending 31 March 2023 subject to the receipt of all regulatory approvals. The Group's 40% interest in the Acquiring Entity is expected to be classified as an associate on the basis that the Group will retain significant influence over the business through its retained stake. The Group has the ability to appoint two out of the seven Directors to the Board of the Acquiring Entity. On 27 March 2022, the Group also entered into a Further Acquisition Agreement (FAA) for the potential sale of the remaining 40% stake. The FAA is a put option that can be exercised by the purchaser either in the period between 1 January and 31 March 2023 or in the period between 1 April and 30 June 2023. The deferral of the option window is at our discretion (subject to change depending on the timing of the closing of the sale agreement).

The Group classified the business as held for sale at the end of August 2021, when it became highly probable that the value of the business to the Group would be recovered through sale rather than continued ownership. As UK Gas Transmission represents a major separate line of business, the business has been classified separately as a discontinued operation for all periods presented in the consolidated income statement and statement of comprehensive income. Earnings per share (EPS) has also been shown split between continuing and discontinued operations.

F. Areas of judgement and key sources of estimation uncertainty

The preparation of financial statements requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities, disclosures of contingent assets and liabilities, and the reported amounts of revenue and expenses during the reporting period. Actual results could differ from these estimates. Information about such judgements and estimations is in the notes to the financial statements, and the key areas are summarised below.

Areas of judgement that have the most significant effect on the amounts recognised in the financial statements are as follows:

- categorisation of certain items as exceptional items or remeasurements and the definition of adjusted earnings (see notes 5 and 8). In applying the Group's exceptional items framework, we have considered a number of key matters, as detailed in note 5;
- in relation to the planned disposal of the UK Gas Transmission business, the key judgement that has been applied is the date from which the business qualified for classification as held for sale and a discontinued operation, as explained further in note 10;
- in performing the WPD goodwill and indefinite-lived licence intangible assets impairment assessment, judgement has been applied over the forecast cash flow duration (see note 11); and
- the judgement that, notwithstanding legislation enacted and targets committing the UK, New York State and Massachusetts to achieving net zero greenhouse gas emissions by 2050, these do not trigger a reassessment of the remaining useful economic lives of our gas network assets (see key sources of estimation uncertainty below and note 13).

Key sources of estimation uncertainty that have a significant risk of causing a material adjustment to the carrying amounts of assets and liabilities within the next financial year are as follows:

- in performing the goodwill impairment assessment of the WPD group of cash-generating units, the key source of estimation uncertainty relates to the discount rate and terminal value assumptions used in the value-in-use calculations (see note 11);
- the valuation of liabilities for pensions and other post-retirement benefits (see note 25); and
- the cash flows applied in determining the environmental provisions, in particular relating to three US Superfund sites (see note 26).

1. Basis of preparation and recent accounting developments continued

In addition, we also highlight the estimates made regarding the useful economic lives of our gas network assets due to the length over which they are being depreciated, the potential for new and evolving technologies over that period, and the range of potential pathways for meeting net zero targets (see note 13 for details and sensitivity analysis).

In order to illustrate the impact that changes in assumptions for the valuation of pension assets and liabilities and cash flows for environmental provisions could have on our results and financial position, we have included sensitivity analyses in note 35. In performing our impairment assessment of goodwill and indefinite-lived licence intangible assets, we have sensitised our forecasts to factor in adjustments to key inputs to each model (see note 11). Information on what we believe to be a reasonably possible range of outcomes on the recoverability of customer receivables is included in note 19.

G. Accounting policy choices

IFRS provides certain options available within accounting standards. Choices we have made, and continue to make, include the following:

- Presentational formats: we use the nature of expense method for our income statement and aggregate our statement of financial position to net assets and total equity. In the income statement, we present subtotals of total operating profit, profit before tax and profit after tax from continuing operations, together with additional subtotals excluding exceptional items and remeasurements as a result of the three columnar presentation described earlier. Exceptional items and remeasurements are presented in a separate column on the face of the income statement.
- Financial instruments: we normally opt to apply hedge accounting in most circumstances where this is permitted (see note 32(e)).

H. New IFRS accounting standards and interpretations effective for the year ended 31 March 2022

With effect from the period commencing 1 April 2021, the consolidated financial statements are prepared in accordance with IAS and IFRS and related interpretations as adopted by the UK, instead of those adopted by the EU. As both sets of accounting standards are currently aligned, there will be no transitional adjustments required and comparative amounts were not required to be restated.

The Group early adopted the following amendments to standards which have had no material impact on the Group's results or financial statement disclosures:

- amendments to IFRS 16 'Leases – COVID-19-Related Rent Concessions';
- amendments to IFRS 3 'Definition of a Business'; and
- amendments to IAS 1 and IAS 8 'Definition of Material'.

In April 2021, the IFRS IC (Interpretation Committee) also issued an agenda decision in relation to the accounting treatment for configuration and customisation costs in a cloud computing arrangement. This guidance clarified that in order for an intangible asset to be capitalised in relation to customisation and configuration costs in a cloud computing arrangement, it is necessary for there to be control of the underlying software asset or for there to be a separate intangible asset which meets the definition in IAS 38 Intangible Assets. As at 31 March 2022, the Group has recognised a cumulative adjustment against software intangible assets of £34 million for previously capitalised customisation and configuration relating to its continuing operations. The Group has also considered the application of the new accounting guidance for its comparative periods and concluded that it does not have a material impact. Accordingly, no comparative periods have been restated.

I. New IFRS accounting standards and interpretations not yet adopted

The following new accounting standards and amendments to existing standards have been issued but are not yet effective or have not yet been endorsed by the UK:

- IFRS 17 'Insurance Contracts';
- amendments to IFRS 3 'Business Combinations';
- amendments to IAS 12 'Deferred Tax Related to Assets and Liabilities Arising from a Single Transaction';
- amendments to IAS 16 'Property, Plant and Equipment';
- amendments to IAS 37 'Provisions, Contingent Liabilities and Contingent Assets';
- amendments to IAS 1 'Presentation of Financial Statements';
- amendments to IAS 8 'Accounting Policies, Changes in Accounting Estimates and Errors';
- annual improvements to IFRS standards 2018-2020; and
- amendments to IFRS Practice Statement 2 – making materiality judgements.

Effective dates will be subject to the UK endorsement process.

The Group is currently assessing the impact of the above standards, but they are not expected to have a material impact.

The Group has not adopted any other standard, amendment or interpretation that has been issued but is not yet effective.

Notes to the consolidated financial statements continued

2. Segmental analysis

This note sets out the financial performance for the year split into the different parts of the business (operating segments). The performance of these operating segments is monitored and managed on a day-to-day basis. Revenue and the results of the business are analysed by operating segment, based on the information the Board of Directors uses internally for the purposes of evaluating the performance of each operating segment and determining resource allocation between them. The Board is National Grid's chief operating decision maker (as defined by IFRS 8 'Operating Segments') and assesses the profitability of operations principally on the basis of operating profit before exceptional items and remeasurements (see note 5). As a matter of course, the Board also considers profitability by segment, excluding the effect of timing. However, the measure of profit disclosed in this note is operating profit before exceptional items and remeasurements as this is the measure that is most consistent with the IFRS results reported within these financial statements.

As a result of the new operating model, the operating segments that were reported up to the Board have changed during the period to align with the six business units that will continue to operate, and the UK Gas Transmission business that is expected to be disposed of, which is now considered a discontinued operation (see note 10). Five of these continuing businesses meet the size criteria set out in the accounting standards to be treated as reportable operating segments. The other operating segment, remaining businesses that are not operating segments and the corporate centre activities are reported to the Board of Directors on an aggregated basis.

The following table describes the main activities for each reportable operating segment within continuing operations:

UK Electricity Transmission	The high-voltage electricity transmission networks in England and Wales.
UK Electricity Distribution	The electricity distribution networks of WPD in the East Midlands, West Midlands and South West of England and South Wales.
UK Electricity System Operator	The Great Britain system operator.
New England	Gas distribution networks, electricity distribution networks and high-voltage electricity transmission networks in New England.
New York	Gas distribution networks, electricity distribution networks and high-voltage electricity transmission networks in New York.

The UK Gas Transmission business, which owns the high-pressure gas transmission networks in Great Britain and gas system operator in Great Britain and includes the regulated gas metering operations (which was previously reported within NGV and Other), is now a discontinued operation and classified as held for sale (see note 10). Therefore, while it is still a reportable operating segment, it is no longer presented within continuing operations.

The National Grid Ventures (NGV) operating segment is outside our regulated core business and operates in competitive markets across the UK and the US. The business comprises all commercial operations in LNG at the Isle of Grain in the UK, our electricity generation business in the US, our electricity interconnectors and our investment in National Grid Renewables Development LLC, with a focus on investment and future activities in emerging growth areas. NGV does not meet the thresholds set out in IFRS 8 to be identified as a separate reportable segment and therefore its results are not required to be separately presented.

Other activities that do not form part of any of the segments in the above table or NGV primarily relate to our UK property business together with insurance and corporate activities in the UK and US and the Group's investments in technology and innovation companies through National Grid Partners.

(a) Revenue

Revenue primarily represents the sales value derived from the generation, transmission and distribution of energy, together with the sales value derived from the provision of other services to customers. Refer to note 3 for further details.

Sales between operating segments are priced considering the regulatory and legal requirements to which the businesses are subject. The analysis of revenue by geographical area is on the basis of destination. There are no material sales between the UK and US geographical areas.

	2022			2021 ¹			2020 ¹		
	Total sales £m	Sales between segments £m	Sales to third parties £m	Total sales £m	Sales between segments £m	Sales to third parties £m	Total sales £m	Sales between segments £m	Sales to third parties £m
Operating segments – continuing operations:									
UK Electricity Transmission	2,035	(7)	2,028	1,974	(10)	1,964	1,986	(8)	1,978
UK Electricity Distribution	1,482	(14)	1,468	—	—	—	—	—	—
UK Electricity System Operator	3,455	(18)	3,437	2,018	—	2,018	1,716	—	1,716
New England	4,550	—	4,550	4,214	—	4,214	4,235	—	4,235
New York	5,561	—	5,561	4,605	—	4,605	4,601	—	4,601
NGV and Other	1,216	—	1,216	864	—	864	834	(4)	830
Total revenue before exceptional items and remeasurements	18,299	(39)	18,260	13,675	(10)	13,665	13,372	(12)	13,360
Exceptional items and remeasurements ²	189	—	189	—	—	—	—	—	—
Total revenue from continuing operations	18,488	(39)	18,449	13,675	(10)	13,665	13,372	(12)	13,360
Split by geographical areas – continuing operations:									
UK			7,803			4,368			4,102
US			10,646			9,297			9,258
Total revenue from continuing operations			18,449			13,665			13,360

1. Comparative amounts have been re-presented to reflect the new operating segments and the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

2. In connection with the disposal of St William Homes LLP in the year the Group released deferred income within NGV and Other of £189 million related to deferred profits from previous property sales (see note 5).

2. Segmental analysis continued

(b) Operating profit

A reconciliation of the operating segments' measure of profit to profit before tax from continuing operations is provided below. Further details of the exceptional items and remeasurements are provided in note 5.

	Before exceptional items and remeasurements			Exceptional items and remeasurements			After exceptional items and remeasurements		
	2022 £m	2021 ¹ £m	2020 ¹ £m	2022 £m	2021 ¹ £m	2020 ¹ £m	2022 £m	2021 ¹ £m	2020 ¹ £m
Operating segments – continuing operations:									
UK Electricity Transmission	1,067	1,094	1,109	(12)	(14)	(5)	1,055	1,080	1,104
UK Electricity Distribution	909	—	—	—	—	—	909	—	—
UK Electricity System Operator	7	(60)	211	(2)	7	1	5	(53)	212
New England	743	611	523	21	3	(53)	764	614	470
New York	780	665	835	315	30	(465)	1,095	695	370
NGV and Other	307	117	126	236	(52)	(3)	543	65	123
Total operating profit from continuing operations	3,813	2,427	2,804	558	(26)	(525)	4,371	2,401	2,279
Split by geographical area – continuing operations:									
UK	2,234	1,113	1,422	224	(57)	(8)	2,458	1,056	1,414
US	1,579	1,314	1,382	334	31	(517)	1,913	1,345	865
Total operating profit from continuing operations	3,813	2,427	2,804	558	(26)	(525)	4,371	2,401	2,279

1. Comparative amounts have been re-presented to reflect the new operating segments and the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

	Before exceptional items and remeasurements			Exceptional items and remeasurements			After exceptional items and remeasurements		
	2022 £m	2021 ¹ £m	2020 ¹ £m	2022 £m	2021 ¹ £m	2020 ¹ £m	2022 £m	2021 ¹ £m	2020 ¹ £m
Reconciliation to profit before tax:									
Operating profit from continuing operations	3,813	2,427	2,804	558	(26)	(525)	4,371	2,401	2,279
Share of post-tax results of joint ventures and associates	148	66	88	(56)	(8)	(1)	92	58	87
Finance income	65	35	70	(15)	23	(16)	50	58	54
Finance costs	(1,146)	(900)	(999)	74	47	(21)	(1,072)	(853)	(1,020)
Profit before tax from continuing operations	2,880	1,628	1,963	561	36	(563)	3,441	1,664	1,400

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation.

(c) Capital expenditure

Capital expenditure represents additions to property, plant and equipment and non-current intangibles but excludes additional investments in and loans to joint ventures and associates.

	Net book value of property, plant and equipment and other intangible assets			Capital expenditure			Depreciation, amortisation and impairment		
	2022 £m	2021 ¹ £m	2020 ¹ £m	2022 £m	2021 ¹ £m	2020 ¹ £m	2022 £m	2021 ¹ £m	2020 ¹ £m
Operating segments:									
UK Electricity Transmission	14,678	14,000	13,463	1,195	984	951	(508)	(460)	(431)
UK Electricity Distribution	12,522	—	—	899	—	—	(158)	—	—
UK Electricity System Operator	404	379	336	108	88	92	(83)	(47)	(38)
New England	11,485	10,165	13,127	1,561	1,437	1,365	(364)	(389)	(373)
New York	18,676	16,467	16,920	1,960	1,738	1,822	(537)	(453)	(436)
NGV and Other	3,039	2,750	2,490	462	480	562	(180)	(136)	(157)
Total	60,804	43,761	46,336	6,185	4,727	4,792	(1,830)	(1,485)	(1,435)
Split by geographical area – continuing operations:									
UK	30,131	16,627	15,706	2,546	1,504	1,560	(879)	(596)	(579)
US	30,673	27,134	30,630	3,639	3,223	3,232	(951)	(889)	(856)
Total	60,804	43,761	46,336	6,185	4,727	4,792	(1,830)	(1,485)	(1,435)
Asset type:									
Property, plant and equipment	57,532	42,424	45,160	5,714	4,335	4,465	(1,544)	(1,317)	(1,286)
Non-current intangible assets	3,272	1,337	1,176	471	392	327	(286)	(168)	(149)
Total	60,804	43,761	46,336	6,185	4,727	4,792	(1,830)	(1,485)	(1,435)

1. Comparative amounts have been re-presented to reflect the new operating segments and the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

Notes to the consolidated financial statements continued

3. Revenue

Revenue arises in the course of ordinary activities and principally comprises:

- transmission services;
- distribution services; and
- generation services.

Transmission services, distribution services and certain other services (excluding rental income but including metering) fall within the scope of IFRS 15 'Revenue from Contracts with Customers', whereas generation services (which solely relate to the contract with the Long Island Power Authority (LIPA) in the US) are accounted for under IFRS 16 'Leases' as rental income, also presented within revenue. Revenue is recognised to reflect the transfer of goods or services to customers at an amount that reflects the consideration to which the Group expects to be entitled to in exchange for those goods or services and excludes amounts collected on behalf of third parties and value added tax. The Group recognises revenue when it transfers control over a product or service to a customer.

Revenue in respect of regulated activities is determined by regulatory agreements that set the price to be charged for services in a given period based on pre-determined allowed revenues. Variances in service usage can result in actual revenue collected exceeding (over-recoveries) or falling short (under-recoveries) of allowed revenues. Where regulatory agreements allow the recovery of under-recoveries or require the return of over-recoveries, the allowed revenue for future periods is typically adjusted. In these instances, no assets or liabilities are recognised for under- or over-recoveries respectively, because the adjustment relates to future services that have not yet been delivered.

Below, we include a description of principal activities, by reportable segment, from which the Group generates its revenue. For more detailed information about our segments, see note 2.

(a) UK Electricity Transmission

The UK Electricity Transmission segment principally generates revenue by providing electricity transmission services in England and Wales. Our business operates as a monopoly regulated by Ofgem, which has established price control mechanisms that set the amount of annual allowed returns our business can earn (along with the Scottish and Offshore transmission operators amongst others).

The transmission of electricity encompasses the following principal services:

- the supply of high-voltage electricity – revenue is recognised based on usage. Our performance obligation is satisfied over time as our customers make use of our network. We bill monthly in arrears and our payment terms are up to 60 days. Price is determined prior to our financial year end with reference to the regulated allowed returns and estimated annual volumes; and
- construction work (principally for connections) – revenue is recognised over time, as we provide access to our network. Customers can either pay over the useful life of the connection or upfront. Where the customer pays upfront, revenues are deferred as a contract liability and released over the life of the asset.

For other construction where there is no consideration for any future services, for example diversions, revenues are recognised as the construction work is completed.

(b) UK Electricity Distribution

The UK Electricity Distribution segment principally generates revenue by providing electricity distribution services in the Midlands and South West of England and South Wales. Similar to UK Electricity Transmission, UK Electricity Distribution operates as a monopoly in the jurisdictions that it operates in and is regulated by Ofgem.

The distribution of electricity encompasses the following principal services:

- electricity distribution – revenue is recognised based on usage by customers (over time), based upon volumes and price. The price control mechanism in place that determines our annual allowances is similar to UK Electricity Transmission. Revenues are billed monthly and payment terms are typically within 14 days; and
- construction work (principally for connections) – revenue is recognised over time as we provide access to our network. Where the customer pays upfront, revenues are deferred as a contract liability and released over the life of the asset.

For other construction where there is no consideration for any future services, revenues are recognised as the construction is completed.

(c) UK Electricity System Operator

The UK System Operator earns revenue for balancing supply and demand of electricity on Great Britain's electricity transmission system, where it acts as principal. Balancing services are regulated by Ofgem and revenue is recognised as the service is provided.

The System Operator also collects revenues on behalf of transmission operators, principally National Grid Electricity Transmission plc and the Scottish and Offshore transmission operators, from users (electricity suppliers) who connect to or use the transmission system. As the System Operator acts as an agent in this capacity, it therefore records transmission network revenues net of payments to transmission operators.

(d) New England

The New England segment principally generates revenue by providing electricity and gas distribution services and high voltage electricity transmission services in New England. Distribution services are regulated by the Massachusetts Department of Public Utilities (MADPU) and the Rhode Island Public Utilities Commission (RIPUC) and transmission services are regulated by the Federal Energy Regulatory Commission (FERC), both of whom regulate the rates that can be charged to customers.

The distribution of electricity and gas and the provision of electricity transmission facilities encompasses the following principal services:

- electricity and gas distribution and electricity transmission – revenue is recognised based on usage by customers (over time). Revenues are billed monthly and payment terms are 30 days; and
- construction work (principally for connections) – revenue is recognised over time as we provide access to our network. Where the customer pays upfront, revenues are deferred as a contract liability or customer contributions (where they relate to government entities) and released over the life of the connection.

3. Revenue continued

(e) New York

The New York segment principally generates revenue by providing electricity and gas distribution services and high-voltage electricity transmission services in New York. Distribution services are regulated by the New York Public Service Commission (NYPSC) and transmission services are regulated by the FERC, both of whom regulate the rates that can be charged to customers.

The distribution of electricity and gas and the provision of electricity transmission facilities encompasses the following principal services:

- electricity and gas distribution and electricity transmission – revenue is recognised based on usage by customers (over time). Revenues are billed monthly and payment terms are 30 days; and
- construction work (principally for connections) – revenue is recognised over time as we provide access to our network. Where the customer pays upfront, revenues are deferred as a contract liability or customer contributions (where they relate to government entities) and released over the life of the connection.

(f) NGV and Other

NGV and Other generates revenue from electricity interconnectors, LNG at the Isle of Grain, National Grid Renewables, our UK commercial property business, rental income and insurance.

The Group recognises revenue from transmission services through interconnectors and LNG importation at the Isle of Grain by means of customers' use of capacity and volumes. Revenue is recognised over time and is billed monthly. Payment terms are up to 30 days. Revenues in respect of certain wholly owned interconnector subsidiaries are subject to a cap and floor regime constructed by Ofgem. Where an interconnector expects to breach its total five-year cap, a provision and reduction in revenue is recognised in the current reporting period (see note 26). Where an interconnector does not expect to reach its five-year floor, either an asset will be recognised where a future inflow of economic benefits is considered virtually certain, or a contingent asset will be disclosed where the future inflow is concluded to be probable.

Electricity generation revenue is earned from the provision of energy services and supply capacity to produce energy for the use of customers of LIPA through a power supply agreement where LIPA receives all of the energy and capacity from the asset until at least 2025. The arrangement is treated as an operating lease within the scope of the leasing standard where we act as lessor; with rental income being recorded as other income, which forms part of total revenue. Lease payments (capacity payments) are recognised on a straight-line basis and variable lease payments are recognised as the energy is generated.

Other revenue in the scope of IFRS 15 principally includes sales of renewables projects from National Grid Renewables to Emerald Energy Venture LLC (Emerald), which is jointly controlled by National Grid and Washington State Investment Board (WSIB) (see note 16). National Grid Renewables develops wind and solar generation assets in the US, whilst Emerald has a right of first refusal to buy, build and operate those assets. Revenue is recognised as it is earned.

Other revenue, recognised in accordance with standards other than IFRS 15, includes property sales by our UK commercial property business (including sales to our 50% share in the St William joint venture which was sold on 15 March 2022) and rental income. Property sales are recorded at a point in time (when the sale is legally completed) and rental income is recorded over time.

(g) Disaggregation of revenue

In the following tables, revenue is disaggregated by primary geographical market and major service lines. The table below reconciles disaggregated revenue with the Group's reportable segments (see note 2).

	UK Electricity Transmission £m	UK Electricity Distribution £m	UK Electricity System Operator £m	New England £m	New York £m	NGV and Other £m	Total £m
Revenue for the year ended 31 March 2022							
<i>Revenue under IFRS 15</i>							
Transmission	1,983	—	—	52	405	627	3,067
Distribution	—	1,375	—	4,434	5,110	—	10,919
System Operator	—	—	3,418	—	—	—	3,418
Other ¹	35	89	19	10	10	147	310
Total IFRS 15 revenue	2,018	1,464	3,437	4,496	5,525	774	17,714
<i>Other revenue</i>							
Generation	—	—	—	—	—	373	373
Other ²	10	4	—	54	36	69	173
Total other revenue	10	4	—	54	36	442	546
Total revenue before exceptional items and remeasurements	2,028	1,468	3,437	4,550	5,561	1,216	18,260
Exceptional items and remeasurements	—	—	—	—	—	189	189
Total revenue from continuing operations	2,028	1,468	3,437	4,550	5,561	1,405	18,449

1. The UK Electricity Transmission and UK Electricity Distribution other IFRS 15 revenue principally relates to engineering recharges, which are the recovery of costs incurred for construction work requested by customers, such as the rerouting of existing network assets. UK Electricity System Operator other IFRS 15 revenue reflects the net income from its role as agent in respect of transmission network revenues. Within NGV and Other, the other IFRS 15 revenue principally relates to revenue generated from our NG Renewables business.

2. Other revenue, recognised in accordance with accounting standards other than IFRS 15, includes property sales by our UK commercial property business and rental income.

Notes to the consolidated financial statements continued

3. Revenue continued

(g) Disaggregation of revenue continued

Geographical split for the year ended 31 March 2022	UK Electricity Transmission £m	UK Electricity Distribution £m	UK Electricity System Operator £m	New England £m	New York £m	NGV and Other £m	Total £m
<i>Revenue under IFRS 15</i>							
UK	2,018	1,464	3,437	—	—	646	7,565
US	—	—	—	4,496	5,525	128	10,149
Total IFRS 15 revenue	2,018	1,464	3,437	4,496	5,525	774	17,714
<i>Other revenue</i>							
UK	10	4	—	—	—	35	49
US	—	—	—	54	36	407	497
Total other revenue	10	4	—	54	36	442	546
Total revenue before exceptional items and remeasurements	2,028	1,468	3,437	4,550	5,561	1,216	18,260
Exceptional items and remeasurements	—	—	—	—	—	189	189
Total revenue from continuing operations	2,028	1,468	3,437	4,550	5,561	1,405	18,449

Revenue for the year ended 31 March 2021	UK Electricity Transmission £m	UK Electricity Distribution £m	UK Electricity System Operator £m	New England £m	New York £m	NGV and Other £m	Total ¹ £m
<i>Revenue under IFRS 15</i>							
Transmission	1,875	—	—	74	329	316	2,594
Distribution	—	—	—	4,091	4,226	—	8,317
System Operator	—	—	2,076	—	—	—	2,076
Other ²	67	—	(61)	8	7	76	97
Total IFRS 15 revenue	1,942	—	2,015	4,173	4,562	392	13,084
<i>Other revenue</i>							
Generation	—	—	—	—	—	376	376
Other ³	22	—	3	41	43	96	205
Total other revenue	22	—	3	41	43	472	581
Total revenue from continuing operations	1,964	—	2,018	4,214	4,605	864	13,665

Geographical split for the year ended 31 March 2021	UK Electricity Transmission £m	UK Electricity Distribution £m	UK Electricity System Operator £m	New England £m	New York £m	NGV and Other £m	Total ¹ £m
<i>Revenue under IFRS 15</i>							
UK	1,942	—	2,015	—	—	327	4,284
US	—	—	—	4,173	4,562	65	8,800
Total IFRS 15 revenue	1,942	—	2,015	4,173	4,562	392	13,084
<i>Other revenue</i>							
UK	22	—	3	—	—	59	84
US	—	—	—	41	43	413	497
Total other revenue	22	—	3	41	43	472	581
Total revenue from continuing operations	1,964	—	2,018	4,214	4,605	864	13,665

1. Comparative amounts have been re-presented to reflect the new operating segments and the classification of the UK Gas Transmission business as a discontinued operation. See notes 1, 2 and 10 for further information.
2. The UK Electricity Transmission other IFRS 15 revenue principally relates to engineering recharges, which are the recovery of costs incurred for construction work requested by customers, such as the rerouting of existing network assets. UK Electricity System Operator other IFRS 15 revenue reflects the net income from its role as agent in respect of transmission network revenues. Within NGV and Other, the other IFRS 15 revenue principally relates to revenue generated from our NG Renewables business.
3. Other revenue, recognised in accordance with accounting standards other than IFRS 15, principally includes property sales by our UK commercial property business and rental income reported in NGV and Other.

3. Revenue continued

(g) Disaggregation of revenue continued

Revenue for the year ended 31 March 2020	UK Electricity Transmission £m	UK Electricity Distribution £m	UK Electricity System Operator £m	New England £m	New York £m	NGV and Other £m	Total ¹ £m
<i>Revenue under IFRS 15</i>							
Transmission	1,898	—	—	77	348	309	2,632
Distribution	—	—	—	4,114	4,205	—	8,319
System Operator	—	—	1,610	—	—	—	1,610
Other ²	69	—	94	6	6	51	226
Total IFRS 15 revenue	1,967	—	1,704	4,197	4,559	360	12,787
<i>Other revenue</i>							
Generation	—	—	—	—	—	369	369
Other ³	11	—	12	38	42	101	204
Total other revenue	11	—	12	38	42	470	573
Total revenue from continuing operations	1,978	—	1,716	4,235	4,601	830	13,360

Geographical split for the year ended 31 March 2020	UK Electricity Transmission £m	UK Electricity Distribution £m	UK Electricity System Operator £m	New England £m	New York £m	NGV and Other £m	Total ¹ £m
<i>Revenue under IFRS 15</i>							
UK	1,967	—	1,704	—	—	322	3,993
US	—	—	—	4,197	4,559	38	8,794
Total IFRS 15 revenue	1,967	—	1,704	4,197	4,559	360	12,787
<i>Other revenue</i>							
UK	11	—	12	—	—	86	109
US	—	—	—	38	42	384	464
Total other revenue	11	—	12	38	42	470	573
Total revenue from continuing operations	1,978	—	1,716	4,235	4,601	830	13,360

1. Comparative amounts have been re-presented to reflect the new operating segments and the classification of the UK Gas Transmission business as a discontinued operation. See notes 1, 2 and 10 for further information.
2. The UK Electricity Transmission other IFRS 15 revenue principally relates to engineering recharges, which are the recovery of costs incurred for construction work requested by customers, such as the rerouting of existing network assets. UK Electricity System Operator other IFRS 15 revenue reflects the net income from its role as agent in respect of transmission network revenues. Within NGV and Other, the other IFRS 15 revenue principally relates to revenue generated from our NG Renewables business.
3. Other revenue, recognised in accordance with accounting standards other than IFRS 15, principally includes property sales by our UK commercial property business and rental income reported in NGV and Other.

Contract liabilities (see note 23) represent revenue to be recognised in future periods relating to contributions in aid of construction of £1,472 million (2021: £1,160 million; 2020: £1,158 million). Contract liabilities in the years ended 31 March 2021 and 2020 included amounts in respect of the UK Gas Transmission business of £136 million and £136 million respectively. Revenue is recognised over the life of the asset. The asset lives for connections in UK Electricity Transmission, UK Electricity Distribution, New England and New York are 40 years, 69 years, 51 years and up to 48 years respectively. The weighted average amortisation period is 31 years.

Future revenues in relation to unfulfilled performance obligations not yet received in cash amount to £5.2 billion (2021: £4.8 billion; 2020: £3.1 billion). £1.7 billion (2021: £1.6 billion; 2020: £1.5 billion) relates to connection contracts in UK Electricity Transmission which will be recognised as revenue over 25 years and £3.0 billion (2021: £3.0 billion; 2020: £1.5 billion) relates to revenues to be earned under Grain LNG contracts until 2045. The remaining amount will be recognised as revenue over 3 years.

The amount of revenue recognised for the year ended 31 March 2022 from performance obligations satisfied (or partially satisfied) in previous periods, mainly due to changes in the estimate of the stage of completion, is £nil (2021: £nil; 2020: £nil).

Notes to the consolidated financial statements continued

4. Other operating income and costs

Below we have presented separately certain items included in our operating costs from continuing operations. These include a breakdown of payroll costs (including disclosure of amounts paid to key management personnel) and fees paid to our auditors. Other operating income includes gains arising on disposal of interests in other entities.

	Before exceptional items and remeasurements			Exceptional items and remeasurements			Total		
	2022 £m	2021 ¹ £m	2020 ¹ £m	2022 £m	2021 ¹ £m	2020 ¹ £m	2022 £m	2021 ¹ £m	2020 ¹ £m
(Gain) on disposal of St William Homes LLP (note 5)	—	—	—	(228)	—	—	(228)	—	—
Depreciation, amortisation and impairment	1,830	1,485	1,435	—	—	—	1,830	1,485	1,435
Payroll costs	1,770	1,622	1,558	24	16	—	1,794	1,638	1,558
Purchases of electricity	1,487	1,181	1,318	(207)	(51)	85	1,280	1,130	1,403
Purchases of gas	1,851	1,233	1,276	(185)	17	40	1,666	1,250	1,316
Property and other taxes	1,202	1,105	1,100	—	—	—	1,202	1,105	1,100
UK Electricity Balancing costs	3,152	1,875	1,317	—	—	—	3,152	1,875	1,317
Other	2,988	2,412	2,318	227	44	400	3,215	2,456	2,718
Other operating (income)/costs	14,280	10,913	10,322	(369)	26	525	13,911	10,939	10,847
Provision for bad and doubtful debts	167	325	234	—	—	—	167	325	234
Total operating costs from continuing operations	14,447	11,238	10,556	(369)	26	525	14,078	11,264	11,081
Operating costs from continuing operations include:									
Inventory consumed							436	312	315
Research and development expenditure							11	12	9

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

(a) Payroll costs

	2022 £m	2021 ¹ £m	2020 ¹ £m
Wages and salaries ²	2,563	2,170	2,081
Social security costs	201	156	152
Defined contribution scheme costs	81	67	62
Defined benefit pension costs	185	126	125
Share-based payments	38	23	16
Severance costs (excluding pension costs)	5	9	1
	3,073	2,551	2,437
Less: payroll costs capitalised	(1,279)	(913)	(879)
Total payroll costs from continuing operations	1,794	1,638	1,558

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

2. Included within wages and salaries are US other post-retirement benefit costs of £39 million (2021: £43 million; 2020: £45 million). For further information refer to note 25.

(b) Number of employees

	31 March 2022	Monthly average 2022	31 March 2021 ¹	Monthly average 2021 ¹	31 March 2020 ¹	Monthly average 2020 ¹
UK	11,960	11,393	4,468	4,333	4,185	4,095
US	17,332	17,314	17,026	16,821	16,748	16,679
Total number of employees (continuing operations)	29,292	28,707	21,494	21,154	20,933	20,774

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

4. Other operating income and costs continued

(c) Key management compensation

	2022 £m	2021 £m	2020 £m
Short-term employee benefits	7	7	7
Compensation for loss of office	—	—	1
Post-employment benefits	1	1	1
Share-based payments	5	4	3
Total key management compensation	13	12	12

Key management compensation relates to the Board, including the Executive Directors and Non-executive Directors for the years presented.

(d) Directors' emoluments

Details of Executive Directors' emoluments are contained in the Remuneration Report on page 114 and those of Non-executive Directors on page 121.

(e) Auditors' remuneration

Auditors' remuneration is presented below in accordance with the requirements of the Companies Act 2006 and the principal accountant fees and services disclosure requirements of Item 16C of Form 20-F:

	2022 £m	2021 £m	2020 £m
Audit fees payable to the Parent Company's auditors and their associates in respect of:			
Audit of the Parent Company's individual and consolidated financial statements ¹	2.7	2.5	1.9
The auditing of accounts of any associate of the Company	8.9	8.1	8.7
Other services supplied ²	7.3	6.4	6.3
	18.9	17.0	16.9
Total other services³			
All other fees:			
Other assurance services ⁴	0.9	0.8	0.6
Other non-audit services not covered above ⁵	0.1	2.0	0.5
	1.0	2.8	1.1
Total auditors' remuneration	19.9	19.8	18.0

- Audit fees in each year represent fees for the audit of the Company's financial statements and regulatory reporting for the years ended 31 March 2022, 2021 and 2020.
- Other services supplied represent fees payable for services in relation to other statutory filings or engagements that are required to be carried out by the auditors. In particular, this includes fees for reports under section 404 of the US Public Company Accounting Reform and Investor Protection Act of 2002 (Sarbanes-Oxley), audit reports on regulatory returns and the review of interim financial statements for the six-month periods ended 30 September 2021, 2020 and 2019 respectively.
- There were no tax compliance or tax advisory fees and no audit-related fees as described in Item 16C(b) of Form 20-F.
- In all years, principally relates to assurance services provided in relation to comfort letters for debt issuances and, in 2021, also includes amounts related to capacity market auction monitoring services.
- For 2021, includes the class 1 Circular in respect of the acquisition of WPD announced on 18 March 2021. In 2020, other assurance services include auction monitor work on Contracts for Difference, a review of controls over our data on New York customers and IT project assurance.

The Audit & Risk Committee considers and makes recommendations to the Board, to be put to shareholders for approval at each AGM, in relation to the appointment, re-appointment, removal and oversight of the Company's independent auditors. The Committee also considers and approves the audit fees on behalf of the Board in accordance with the Competition and Market Authority Audit Order 2014. The auditors' remuneration is then put to shareholders at each AGM. Details of our policies and procedures in relation to non-audit services to be provided by the independent auditors are set out on page 105 of the Corporate Governance Report.

Certain services are prohibited from being performed by the external auditors under the Sarbanes-Oxley Act. Of the above services, none were prohibited.

Notes to the consolidated financial statements continued

5. Exceptional items and remeasurements

To monitor our financial performance, we use a profit measure that excludes certain income and expenses. We call that measure 'adjusted profit'. Adjusted profit (which excludes exceptional items and remeasurements as defined below) is used by management to monitor financial performance as it is considered that it aids the comparability of our reported financial performance from year to year. We exclude items from adjusted profit because, if included, these items could distort understanding of our performance for the year and the comparability between periods. This note analyses these items, which are included in our results for the year but are excluded from adjusted profit.

Exceptional items and remeasurements from continuing operations

	2022 £m	2021 ¹ £m	2020 ¹ £m
<i>Included within operating profit</i>			
Exceptional items:			
Release of St William Homes LLP deferred income	189	—	—
Net gain on disposal of St William Homes LLP	228	—	—
New operating model implementation costs and cost efficiency programme	(66)	(50)	—
Transaction and separation costs	(223)	(24)	—
Environmental insurance recovery	38	—	—
Changes in environmental provisions	—	14	(400)
	166	(60)	(400)
Remeasurements – commodity contract derivatives	392	34	(125)
	558	(26)	(525)
<i>Included within finance income and costs</i>			
Remeasurements:			
Net gains/(losses) on financing derivatives	74	47	(21)
Net (losses)/gains on financial assets at fair value through profit and loss	(15)	23	(16)
	59	70	(37)
<i>Included within share of post-tax results of joint ventures and associates</i>			
Remeasurements:			
Remeasurements – net losses on financial instruments	(56)	(8)	(1)
Total included within profit/(loss) before tax	561	36	(563)
<i>Included within tax</i>			
Exceptional items – movements arising on items not included in profit before tax:			
Deferred tax charge arising as a result of UK tax rate change	(458)	—	(148)
Tax on exceptional items	(28)	8	103
Tax on remeasurements	(103)	(34)	37
	(589)	(26)	(8)
Total exceptional items and remeasurements after tax	(28)	10	(571)
<i>Analysis of total exceptional items and remeasurements after tax</i>			
Exceptional items after tax	(320)	(52)	(445)
Remeasurements after tax	292	62	(126)
Total exceptional items and remeasurements after tax	(28)	10	(571)

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

5. Exceptional items and remeasurements continued

Exceptional items

Management uses an exceptional items framework that has been discussed and approved by the Audit & Risk Committee. This follows a three-step process which considers the nature of the event, the financial materiality involved and any particular facts and circumstances. In considering the nature of the event, management focuses on whether the event is within the Group's control and how frequently such an event typically occurs. With respect to restructuring costs, these represent additional expenses incurred that are not related to the normal business and day-to-day activities. In determining the facts and circumstances, management considers factors such as ensuring consistent treatment between favourable and unfavourable transactions, the precedent for similar items, the number of periods over which costs will be spread or gains earned, and the commercial context for the particular transaction. The exceptional items framework was last updated in March 2022 and reflects the latest disclosure requirements arising in respect of FRC guidance issued in the year.

Items of income or expense that are considered by management for designation as exceptional items include significant restructurings, write-downs or impairments of non-current assets, significant changes in environmental or decommissioning provisions, integration of acquired businesses, gains or losses on disposals of businesses or investments and significant debt redemption costs as a consequence of transactions such as significant disposals or issues of equity, and the related tax, as well as deferred tax arising on changes to corporation tax rates.

Costs arising from restructuring programmes include redundancy costs. Redundancy costs are charged to the consolidated income statement in the year in which a commitment is made to incur the costs and the main features of the restructuring plan have been announced to affected employees.

Set out below are details of the transactions against which we have considered the application of our exceptional items framework in each of the years for which results are presented. No COVID-19-related costs incurred have been recognised as exceptional in any of the years presented.

2022

Net gain on disposal of St William Homes LLP and release of deferred income

During the year, the Group recognised a gain of £228 million on the disposal of its entire 50% equity interest in the St William Homes LLP joint venture to The Berkeley Group plc for cash consideration of £413 million (see note 16). In connection with the disposal, the Group also released deferred income of £189 million which related to deferred profits from previous property sales to St William Homes LLP. We have concluded that the release of the deferred income should be classified as exceptional given the crystallisation event for the release is the sale of the Group's equity interest in St William Homes LLP.

New operating model implementation costs and cost efficiency programme

The Group incurred a further £66 million of costs in relation to the design and implementation of our new operating model and the major cost efficiency programme announced in November 2021. The costs recognised primarily relate to professional fees incurred and redundancy provisions. Whilst the costs incurred this year do not meet the quantitative threshold to be classified as exceptional on a standalone basis, when taken in aggregate with the costs expected to be incurred over the duration of the programme, we have concluded that the costs should be classified as exceptional in line with our exceptional items policy. Estimated costs expected to be incurred in future years are disclosed in the Financial review on page 38. The total cash outflow for the period was £48 million.

Transaction and separation costs

£223 million of transaction and separation costs were incurred in the period in relation to the acquisition of WPD (see note 37), the planned disposal of NECO (see note 10) and the planned disposal of our UK Gas Transmission business (see note 10). The costs relate to legal fees, bankers' fees and other professional fees. The costs have been classified as exceptional, consistent with similar costs for the year ended 31 March 2021. The total cash outflow for the year was £196 million.

Environmental insurance recovery

In the US, the most significant component of our £1.9 billion environmental provision relates to several Superfund sites, and arose from former manufacturing gas plant facilities, previously owned or operated by the Group or its predecessor companies. Under Federal and State Superfund laws, potential liability for the historical contamination may be imposed on responsible parties jointly and severally, without regard to fault, even if the activities were lawful when they occurred. In the year, we have recognised an exceptional gain of £38 million relating to an insurance receivable for site remediation costs that are included in our Superfund sites environmental provision. The insurance receipts have been recorded as an exceptional item in line with the treatment of the related costs.

2021

New operating model implementation costs

The Group incurred £50 million of costs in relation to the design and implementation of our new operating model that is built on a foundation of six business units. The costs recognised in the year ended 31 March 2021 primarily related to professional fees incurred and redundancy provisions. In evaluating the costs incurred against the quantitative thresholds in our exceptional items framework we considered the total costs to be incurred over the duration of the programme. Whilst the costs incurred did not meet the quantitative threshold to be classified as exceptional on a standalone basis, we concluded that the costs should be classified as exceptional in line with our exceptional items policy, in order to ensure that the costs are treated in a consistent manner with similar costs incurred previously. The total cash outflow for the year was £33 million.

Transaction and separation costs

£24 million of transaction and separation costs were incurred in relation to the acquisition of WPD (see note 37) and the planned sale of NECO (see note 10). The costs related to legal fees, bankers' fees and professional fees. Whilst the costs incurred in isolation were not sufficiently material to warrant classification as an exceptional item, we expected further costs to be incurred in the next year, for example, in regard to success fees on completion of the acquisition. When taken in aggregate, the costs incurred over both years will be sufficiently material to be classified as exceptional in line with our policy. The total cash outflow for the year was £14 million.

Changes in environmental provision

We recognised an exceptional gain of £14 million relating to the release of environmental provisions relating to one of our US Superfund sites, for which the original provision was treated as an exceptional item. The reduction in the provision arose as a result of the re-evaluation of the Group's share of estimated costs following the finalisation of discussions on the scope of certain remediation work with government authorities. The release was recorded as an exceptional item in line with the treatment of the original provision.

Notes to the consolidated financial statements continued

5. Exceptional items and remeasurements continued

2020

Changes in environmental provisions

As a result of notices issued by governmental authorities and newly developed cost estimates prepared by third-party engineers in relation to our US Superfund sites, we re-evaluated our estimates of total costs and cost sharing allocations borne by the Company, and accordingly increased our provision by £326 million. Under the terms of our rate plans, we are entitled to recovery of environmental clean-up costs from rate payers, but under IFRS no asset can be recognised for this recovery.

Also included in the total environmental charge was the £74 million (re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation) impact of the change in the real discount rate applied to the environmental provisions across the Group, of which £66 million related to the US and £8 million to the UK. Given the substantial and sustained change in gilts and corporate bond yields, we concluded it was appropriate to reduce the real discount rate from 1% to 0.5%. The weighted average remaining duration of our cash flows is now around 10 years.

Remeasurements

Remeasurements comprise unrealised gains or losses recorded in the consolidated income statement arising from changes in the fair value of certain of our financial assets and liabilities accounted for at fair value through profit and loss (FVTPL). Once the fair value movements are realised (for example, when the derivative matures), the previously recognised fair value movements are then reversed through remeasurements and recognised within earnings before exceptional items and remeasurements. These assets and liabilities include commodity contract derivatives and financing derivatives to the extent that hedge accounting is not available or is not fully effective.

The unrealised gains or losses reported in profit and loss on certain additional assets and liabilities treated at FVTPL are also classified within remeasurements. These relate to financial assets (which fail the 'solely payments of principal and interest test' under IFRS 9), the money market fund investments used by Group Treasury for cash management purposes and the net foreign exchange gains and losses on borrowing activities. These are offset by foreign exchange gains and losses on financing derivatives measured at fair value. In all cases, these fair values increase or decrease because of changes in foreign exchange, commodity or other financial indices over which we have no control.

We report unrealised gains or losses relating to certain discrete classes of financial assets accounted for at FVTPL within adjusted profit. These comprise our portfolio of investments made by National Grid Partners, our investment in Sunrun Neptune 2016 LLC and the contingent consideration arising on the acquisition of National Grid Renewables (all within NGV and Other). The performance of these assets (including changes in fair value) is included in our assessment of adjusted profit for the relevant business units.

Remeasurements excluded from adjusted profit are made up of the following categories:

- i. Net gains/(losses) on commodity contract derivatives represent mark-to-market movements on certain physical and financial commodity contract obligations in the US. These contracts primarily relate to the forward purchase of energy for supply to customers, or to the economic hedging thereof, that are required to be measured at fair value and that do not qualify for hedge accounting. Under the existing rate plans in the US, commodity costs are recoverable from customers although the timing of recovery may differ from the pattern of costs incurred;
- ii. Net gains/(losses) on financing derivatives comprise gains and losses arising on derivative financial instruments used for the risk management of interest rate and foreign exchange exposures. These exclude gains and losses for which hedge accounting has been effective, and have been recognised directly in the consolidated statement of other comprehensive income or are offset by adjustments to the carrying value of debt (see notes 17 and 32). Net foreign exchange gains and losses on financing derivatives used for the risk management of foreign exchange exposures are offset by foreign exchange losses and gains on borrowing activities;
- iii. Net gains/(losses) on financial assets measured at FVTPL comprise gains and losses on the investment funds held by our insurance captives which are categorised as FVTPL (see note 15);
- iv. Net gains/(losses) on financial liabilities measured at FVTPL comprise the change in the fair value (excluding changes due to own credit risk) of a financial liability that was designated at FVTPL on transition to IFRS 9 to reduce a measurement mismatch (see note 21); and
- v. Unrealised net gains/(losses) on derivatives and other financial instruments within our joint ventures and associates.

Items included within tax

2022

Change in UK corporation tax rate

In the Spring Budget 2021, the UK government announced that from 1 April 2023 the UK corporation tax rate will increase to 25%, and this was substantively enacted on 24 May 2021. Deferred tax balances at 31 March 2022 were remeasured at the enacted rate, with £458 million recognised as exceptional, in line with previous periods.

2020

The Finance Act 2016, which was enacted on 15 September 2016, reduced the main UK corporation tax rate to 17% with effect from 1 April 2020. Deferred tax balances were calculated at this rate for the years ended 31 March 2017 to 2019. On 17 March 2020, the UK government utilised the Provisional Collection of Taxes Act 1968 to substantively enact a reversal of the reduction in the main UK corporation tax rate to 17% with effect from 1 April 2020, resulting in the rate remaining at 19%. Deferred taxes at 31 March 2020 were measured using enacted tax rates and reflected in these financial statements, resulting in a £148 million deferred tax charge (re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation), principally due to the remeasurement of deferred tax liabilities. The treatment of this charge as exceptional was consistent with the treatment for the year ended 31 March 2017 when the original reduction in the tax rate was substantively enacted, resulting in the recognition of an exceptional tax credit of £94 million.

6. Finance income and costs

This note details the interest income generated by our financial assets and interest expense incurred on our financial liabilities, primarily our financing portfolio (including our financing derivatives). It also includes the net interest on our pensions and other post-retirement assets. In reporting adjusted profit, we adjust net financing costs to exclude any net gains or losses on financial instruments included in remeasurements (see note 5).

Finance income and costs remeasurements include unrealised gains and losses on certain assets and liabilities now treated at FVTPL. The interest income, dividends and interest expense on these items are included in finance income and finance costs before remeasurements respectively.

	Notes	2022 £m	2021 ¹ £m	2020 ¹ £m
<i>Finance income</i>				
Interest income on financial instruments:				
Bank deposits and other financial assets		32	33	48
Dividends received on equities held at fair value through other comprehensive income (FVOCI)		3	2	2
Other income		30	—	20
		65	35	70
<i>Finance costs</i>				
Net interest on pensions and other post-retirement benefit obligations	25	—	(51)	(34)
Interest expense on financial liabilities held at amortised cost:				
Bank loans and overdrafts		(216)	(53)	(46)
Other borrowings ²		(961)	(741)	(846)
Interest on derivatives		(59)	(47)	(92)
Unwinding of discount on provisions	26	(73)	(77)	(75)
Other interest		11	(51)	(8)
Less: interest capitalised ³		152	120	102
		(1,146)	(900)	(999)
<i>Remeasurements – Finance income</i>				
Net gains/(losses) on FVTPL financial assets		(15)	23	(16)
		(15)	23	(16)
<i>Remeasurements – Finance costs</i>				
Net gains/(losses) on financing derivatives ⁴ :				
Derivatives designated as hedges for hedge accounting		45	30	(14)
Derivatives not designated as hedges for hedge accounting		29	17	(7)
		74	47	(21)
Total remeasurements – Finance income and costs		59	70	(37)
Finance income		50	58	54
Finance costs⁵		(1,072)	(853)	(1,020)
Net finance costs from continuing operations		(1,022)	(795)	(966)

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

2. Includes interest expense on lease liabilities (see note 13 for details).

3. Interest on funding attributable to assets in the course of construction in the current year was capitalised at a rate of 3.2% (2021: 3.1%; 2020: 3.6%). In the UK, capitalised interest qualifies for a current year tax deduction with tax relief claimed of £16 million (2021: £11 million; 2020: £15 million). In the US, capitalised interest is added to the cost of property, plant and equipment and qualifies for tax depreciation allowances.

4. Includes a net foreign exchange gain on borrowing activities of £110 million (2021: £73 million gain; 2020: £114 million gain) offset by foreign exchange losses and gains on financing derivatives measured at fair value.

5. Finance costs include principal accretion on inflation linked liabilities of £241 million (2021: £46 million; 2020: £85 million).

Notes to the consolidated financial statements continued

7. Tax

Tax is payable in the territories where we operate, mainly the UK and the US. This note gives further details of the total tax charge and tax liabilities, including current and deferred tax. The current tax charge is the tax payable on this year's taxable profits. Deferred tax is an accounting adjustment to provide for tax that is expected to arise in the future due to differences in the accounting and tax bases.

The tax charge for the period is recognised in the income statement, the statement of comprehensive income or directly in the statement of changes in equity, according to the accounting treatment of the related transaction. The tax charge comprises both current and deferred tax.

Current tax assets and liabilities are measured at the amounts expected to be recovered from or paid to the tax authorities. The tax rates and tax laws used to compute the amounts are those that have been enacted or substantively enacted by the reporting date.

The Group operates internationally in territories with different and complex tax codes. Management exercises judgement in relation to the level of provision required for uncertain tax outcomes. There are a number of tax positions not yet agreed with the tax authorities where different interpretations of legislation could lead to a range of outcomes. Judgements are made for each position having regard to particular circumstances and advice obtained.

Deferred tax is provided for using the balance sheet liability method, and is recognised on temporary differences between the carrying amount of assets and liabilities in the financial statements and the corresponding tax bases.

Deferred tax liabilities are generally recognised on all taxable temporary differences, and deferred tax assets are recognised to the extent that it is probable that taxable profits will be available against which deductible temporary differences can be utilised. However, deferred tax assets and liabilities are not recognised if the temporary differences arise from the initial recognition of goodwill or from the initial recognition of other assets and liabilities in a transaction (other than a business combination) that affects neither the accounting nor the taxable profit or loss.

Deferred tax liabilities are recognised on taxable temporary differences arising on investments in subsidiaries and joint arrangements except where the Company is able to control the reversal of the temporary difference and it is probable that the temporary difference will not reverse in the foreseeable future.

Deferred tax is calculated at the tax rates that are expected to apply in the period when the liability is settled or the asset is realised, based on the tax rates and tax laws that have been enacted or substantively enacted by the reporting date.

The carrying amount of deferred tax assets is reviewed at each reporting date and reduced to the extent that it is no longer probable that sufficient taxable profits will be available to allow all or part of the deferred tax asset to be recovered. Unrecognised deferred tax assets are reassessed at each reporting date and are recognised to the extent that it has become probable that future taxable profits will allow the deferred tax asset to be recovered.

Deferred tax assets and liabilities are offset when there is a legally enforceable right to offset current tax assets against current tax liabilities and when they relate to income taxes levied by the same tax authority, and the Company and its subsidiaries intend to settle their current tax assets and liabilities on a net basis.

Tax charged/(credited) to the consolidated income statement – continuing operations

	2022 £m	2021 ¹ £m	2020 ¹ £m
Tax before exceptional items and remeasurements	669	334	362
Exceptional tax on items not included in profit before tax (note 5)	458	—	148
Tax on other exceptional items and remeasurements	131	26	(140)
Total tax reported within exceptional items and remeasurements	589	26	8
Total tax charge from continuing operations	1,258	360	370

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

Tax as a percentage of profit before tax

	2022 %	2021 ¹ %	2020 ¹ %
Before exceptional items and remeasurements – continuing operations	23.2	20.5	18.4
After exceptional items and remeasurements – continuing operations	36.6	21.6	26.4

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

7. Tax continued

The tax charge for the year can be analysed as follows:

	2022 £m	2021 ¹ £m	2020 ¹ £m
<i>Current tax:</i>			
UK corporation tax at 19% (2021: 19%; 2020: 19%)	255	157	132
UK corporation tax adjustment in respect of prior years	(9)	15	5
	246	172	137
Overseas corporation tax	6	3	(2)
Overseas corporation tax adjustment in respect of prior years	(26)	(15)	(41)
	(20)	(12)	(43)
Total current tax from continuing operations	226	160	94
<i>Deferred tax:</i>			
UK deferred tax	605	39	207
UK deferred tax adjustment in respect of prior years	(5)	(20)	(4)
	600	19	203
Overseas deferred tax	425	174	64
Overseas deferred tax adjustment in respect of prior years	7	7	9
	432	181	73
Total deferred tax from continuing operations	1,032	200	276
Total tax charge from continuing operations	1,258	360	370

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

Tax charged/(credited) to the consolidated statement of comprehensive income and equity

	2022 £m	2021 ¹ £m	2020 ¹ £m
<i>Current tax:</i>			
Cash flow hedges, cost of hedging and own credit reserve	—	—	—
<i>Deferred tax:</i>			
Investments at fair value through other comprehensive income	—	12	(1)
Cash flow hedges, cost of hedging and own credit reserve	(12)	6	(38)
Remeasurements of pension assets and post-retirement benefit obligations	493	462	(226)
Share-based payments	(4)	1	(2)
	477	481	(267)
Total tax recognised in the statements of comprehensive income from continuing operations	481	480	(265)
Total tax relating to share-based payments recognised directly in equity from continuing operations	(4)	1	(2)
	477	481	(267)

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

Notes to the consolidated financial statements continued

7. Tax continued

The tax charge for the year after exceptional items and remeasurements, for the continuing business, is higher (2021: higher tax charge; 2020: lower tax charge) than the standard rate of corporation tax in the UK of 19% (2021: 19%; 2020: 19%):

	Before exceptional items and remeasurements 2022 £m	After exceptional items and remeasurements 2022 £m	Before exceptional items and remeasurements 2021 ¹ £m	After exceptional items and remeasurements 2021 ¹ £m	Before exceptional items and remeasurements 2020 ¹ £m	After exceptional items and remeasurements 2020 ¹ £m
<i>Profit before tax from continuing operations</i>						
Before exceptional items and remeasurements	2,880	2,880	1,628	1,628	1,963	1,963
Exceptional items and remeasurements	—	561	—	36	—	(563)
Profit before tax from continuing operations	2,880	3,441	1,628	1,664	1,963	1,400
Profit before tax from continuing operations multiplied by UK corporation tax rate of 19% (2021: 19%; 2020: 19%)	547	654	309	316	373	266
Effect of:						
Adjustments in respect of prior years ²	(28)	(33)	(10)	(12)	(31)	(31)
Expenses not deductible for tax purposes	13	47	18	29	24	24
Non-taxable income ³	(19)	(49)	(7)	(7)	(18)	(18)
Adjustment in respect of foreign tax rates ⁴	143	170	42	42	53	18
Deferred tax impact of change in UK tax rate	43	501	—	—	—	148
Adjustment in respect of post-tax profits of joint ventures and associates included within profit before tax	(28)	(17)	(15)	(12)	(17)	(17)
Other ⁵	(2)	(15)	(3)	4	(22)	(20)
Total tax charge from continuing operations	669	1,258	334	360	362	370
	%	%	%	%	%	%
Effective tax rate – continuing operations	23.2	36.6	20.5	21.6	18.4	26.4

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

2. The prior year adjustments are primarily due to agreement of prior period tax returns.

3. Includes tax on chargeable disposals after the offset of capital losses and tax on the profits deferred to the following accounting period.

4. Includes remeasurement of US closing State deferred tax balances as a result of expected increase in the blended State tax rate following the disposal of NECO.

5. Other primarily comprises the movement in the deferred tax asset on previously unrecognised capital losses, claims for land remediation relief and impact of fair value movements on capitalised hedging.

Factors that may affect future tax charges

In the Spring Budget 2021, the UK government announced an increase in the main corporation tax rate from 19% to 25% with effect from 1 April 2023. This was substantively enacted on 24 May 2021. Deferred tax balances as at 31 March 2022, that are expected to reverse after 1 April 2023, have been calculated at 25%.

The US government continues to consider changes to federal tax legislation, but as no changes have been substantively enacted at the balance sheet date, deferred tax balances as at 31 March 2022 have been calculated at the prevailing tax rates based on the current tax laws.

We will continue to monitor the developments driven by Brexit, the OECD's Base Erosion and Profit Shifting (BEPS) project and European Commission initiatives including fiscal aid investigations. At this time, we do not expect this to have any material impact on our future tax charges. Governments across the world including the UK and the US have introduced various stimulus/reliefs for businesses to cope with the impact of the COVID-19 pandemic, from which we do not currently expect there to be a material impact on our future tax charges.

7. Tax continued

Tax included within the statement of financial position

The following are the major deferred tax assets and liabilities recognised, and the movements thereon, during the current and prior reporting periods:

	Regulatory licences £m	Accelerated tax depreciation £m	Share- based payments £m	Pensions and other post- retirement benefits £m	Financial instruments £m	Other net temporary differences ¹ £m	Total £m
<i>Deferred tax liabilities/(assets)</i>							
At 1 April 2020	—	6,562	(48)	(360)	(55)	(1,653)	4,446
Exchange adjustments and other ²	—	(501)	4	51	4	174	(268)
Charged/(credited) to income statement	—	373	—	(12)	1	(147)	215
Charged to other comprehensive income and equity	—	—	2	414	6	—	422
At 1 April 2021	—	6,434	(42)	93	(44)	(1,626)	4,815
Exchange adjustments and other ²	—	247	(1)	1	1	(85)	163
Charged/(credited) to income statement	—	1,050	26	118	153	(117)	1,230
Charged/(credited) to other comprehensive income and equity	—	—	(6)	587	(10)	—	571
Reclassification to held for sale (note 10)	—	(643)	5	(166)	2	(1)	(803)
Acquisition of WPD (note 37)	429	622	—	142	(403)	(1)	789
At 31 March 2022	429	7,710	(18)	775	(301)	(1,830)	6,765

1. The deferred tax asset of £1,830 million as at 31 March 2022 (2021: £1,626 million) in respect of other net temporary differences primarily relates to net operating losses of £428 million (2021: £455 million), US environmental provisions of £511 million (2021: £453 million) and US bad debt provision of £201 million (2021: £184 million).

2. Exchange adjustments and other primarily comprises foreign exchange arising on translation of the US dollar deferred tax balances.

Deferred tax assets and liabilities are only offset where there is a legally enforceable right of offset and there is an intention to settle the balances net. The deferred tax balances (after offset) for statement of financial position purposes consist solely of deferred tax liabilities of £6,765 million (2021: £4,815 million). This balance is after offset of a deferred tax asset of £428 million (2021: £455 million) which has been recognised in respect of net operating losses (£418 million) and capital losses (£10 million).

Deferred tax assets in respect of some capital losses as well as trading losses and non-trade deficits have not been recognised as their future recovery is uncertain or not currently anticipated. The total deferred tax assets not recognised are as follows:

	2022 £m	2021 £m
Capital losses	2,363	1,620
Non-trade deficits	1	1
Trading losses	7	7

The capital losses arose in the UK on disposal of certain businesses or assets. They are available to carry forward indefinitely but can only be offset against future capital gains. The UK non-trade deficits arose prior to 1 April 2017 and therefore can only be offset against future non-trade profits.

At 31 March 2022 and 31 March 2021, there were no recognised deferred tax liabilities for taxes that would be payable on the unremitted earnings of the Group's subsidiaries or its associates as there are no significant corporation tax consequences of the Group's UK, US or overseas subsidiaries or associates paying dividends to their parent companies. There are also no significant income tax consequences for the Group from the payment of dividends by the Group to its shareholders.

Notes to the consolidated financial statements continued

8. Earnings per share (EPS)

EPS is the amount of profit after tax attributable to each ordinary share. Basic EPS is calculated on profit after tax for the year attributable to equity shareholders divided by the weighted average number of shares in issue during the year. Diluted EPS shows what the impact would be if all outstanding share options were exercised and treated as ordinary shares at year end. The weighted average number of shares is increased by additional shares issued as scrip dividends and reduced by shares repurchased by the Company during the year. The earnings per share calculations are based on profit after tax attributable to equity shareholders of the Company which excludes non-controlling interests.

Adjusted earnings and EPS, which exclude exceptional items and remeasurements, are provided to reflect the adjusted profit sub-totals used by the Company. We have included reconciliations from this additional EPS measure to earnings for both basic and diluted EPS to provide additional detail for these items. For further details of exceptional items and remeasurements, see note 5.

(a) Basic EPS

	Earnings 2022 £m	EPS 2022 pence	Earnings 2021 ¹ £m	EPS 2021 ¹ pence	Earnings 2020 ¹ £m	EPS 2020 ¹ pence
Adjusted earnings from continuing operations	2,210	61.4	1,293	36.7	1,600	46.2
Exceptional items and remeasurements after tax from continuing operations (see note 5)	(28)	(0.8)	10	0.3	(571)	(16.5)
Earnings from continuing operations	2,182	60.6	1,303	37.0	1,029	29.7
Adjusted earnings from discontinued operations (see note 10)	344	9.6	340	9.7	317	9.2
Exceptional items and remeasurements after tax from discontinued operations	(173)	(4.8)	(3)	(0.1)	(82)	(2.4)
Earnings from discontinued operations	171	4.8	337	9.6	235	6.8
Total adjusted earnings	2,554	71.0	1,633	46.4	1,917	55.4
Total exceptional items and remeasurements after tax (including discontinued operations)	(201)	(5.6)	7	0.2	(653)	(18.9)
Total earnings	2,353	65.4	1,640	46.6	1,264	36.5
		2022 millions		2021 millions		2020 millions
Weighted average number of ordinary shares – basic		3,599		3,523		3,461

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

(b) Diluted EPS

	Earnings 2022 £m	EPS 2022 pence	Earnings 2021 ¹ £m	EPS 2021 ¹ pence	Earnings 2020 ¹ £m	EPS 2020 ¹ pence
Adjusted earnings from continuing operations	2,210	61.1	1,293	36.5	1,600	46.0
Exceptional items and remeasurements after tax from continuing operations (see note 5)	(28)	(0.8)	10	0.3	(571)	(16.4)
Earnings from continuing operations	2,182	60.3	1,303	36.8	1,029	29.6
Adjusted earnings from discontinued operations	344	9.5	340	9.6	317	9.1
Exceptional items and remeasurements after tax from discontinued operations (see note 10)	(173)	(4.8)	(3)	(0.1)	(82)	(2.4)
Earnings from discontinued operations	171	4.7	337	9.5	235	6.7
Total adjusted earnings	2,554	70.6	1,633	46.1	1,917	55.1
Total exceptional items and remeasurements after tax (including discontinued operations)	(201)	(5.6)	7	0.2	(653)	(18.8)
Total earnings	2,353	65.0	1,640	46.3	1,264	36.3
		2022 millions		2021 millions		2020 millions
Weighted average number of ordinary shares – diluted		3,616		3,540		3,478

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

(c) Reconciliation of basic to diluted average number of shares

	2022 millions	2021 millions	2020 millions
Weighted average number of ordinary shares – basic	3,599	3,523	3,461
Effect of dilutive potential ordinary shares – employee share plans	17	17	17
Weighted average number of ordinary shares – diluted	3,616	3,540	3,478

9. Dividends

Interim dividends are recognised when they become payable to the Company's shareholders. Final dividends are recognised when they are approved by shareholders.

	2022			2021			2020		
	Pence per share	Cash dividend £m	Script dividend £m	Pence per share	Cash dividend £m	Script dividend £m	Pence per share	Cash dividend £m	Script dividend £m
Interim dividend in respect of the current year	17.21	339	282	17.00	348	249	16.57	335	241
Final dividend in respect of the prior year	32.16	583	562	32.00	1,065	54	31.26	557	517
	49.37	922	844	49.00	1,413	303	47.83	892	758

The Directors are proposing a final dividend for the year ended 31 March 2022 of 33.76p per share that will absorb approximately £1,231 million of shareholders' equity (assuming all amounts are settled in cash). It will be paid on 18 August 2022 to shareholders who are on the register of members at 4 June 2022 (subject to shareholders' approval at the AGM). A scrip dividend will be offered as an alternative.

10. Assets held for sale and discontinued operations

The results and cash flows of significant assets or businesses sold during the year are shown separately from our continuing operations, and presented within discontinued operations in the income statement and cash flow statement. Assets and businesses are classified as held for sale when their carrying amounts are recovered through sale rather than through continuing use. They only meet the held for sale condition when the assets are ready for immediate sale in their present condition, management is committed to the sale and it is highly probable that the sale will complete within one year. Depreciation ceases on assets and businesses when they are classified as held for sale and the assets and businesses are impaired if the proceeds less sale costs fall short of the carrying value.

(a) Assets held for sale

The following assets and liabilities were classified as held for sale as at 31 March 2022:

	Total assets held for sale £m	Total liabilities held for sale £m	Net assets held for sale £m
The Narragansett Electric Company	4,129	(1,658)	2,471
UK Gas Transmission	5,871	(5,530)	341
Net assets held for sale	10,000	(7,188)	2,812

The Narragansett Electric Company

On 17 March 2021, the Group signed an agreement to sell 100% of the share capital of a wholly owned subsidiary, NECO. NECO is part of our New England segment and is a retail distribution company providing electricity and gas to customers in Rhode Island. The associated assets and liabilities were consequently presented as held for sale in the consolidated financial statements for the year ended 31 March 2021.

As NECO does not represent a separate major line of business or geographical operations, the criteria for classification as a discontinued operation are not met and accordingly its results have not been separately disclosed on the face of the income statement.

Whilst all of the regulatory approvals are in place, the disposal of NECO was not finalised as at 31 March 2022 due to the appeal of one of these approvals by the Rhode Island Attorney General. The following assets and liabilities of NECO were classified as held for sale at 31 March 2022:

	£m
Goodwill	590
Intangible assets	4
Property, plant and equipment	3,173
Trade and other receivables	251
Cash and cash equivalents	6
Other assets	105
<i>Total assets held for sale</i>	4,129
Borrowings	(1,177)
Pension liabilities	(12)
Other liabilities	(469)
<i>Total liabilities held for sale</i>	(1,658)
Net assets held for sale	2,471

No impairment losses were recognised upon remeasurement of the assets and liabilities prior to classification as held for sale. NECO generated profit after tax of £237 million for the year ended 31 March 2022 (2021: £104 million; 2020: £31 million). Current and deferred tax balances relating to NECO have not been included as held for sale on the basis that those balances will be retained by National Grid rather than transferred with the other assets and liabilities of NECO. Furthermore, the tax balances of NECO have been classified within current and non-current assets and liabilities with the corresponding offsets from the other Group members in accordance with the jurisdictional netting principles.

Notes to the consolidated financial statements continued

10. Assets held for sale and discontinued operations continued

(a) Assets held for sale continued

UK Gas Transmission

The Group announced its intention to sell the UK Gas Transmission business on 18 March 2021. On 27 March 2022, the Group agreed to sell 100% of the UK Gas Transmission business to a new entity (the 'Acquiring Entity') in exchange for £4.2 billion cash consideration (subject to customary completion adjustments) and a 40% interest in the Acquiring Entity. The other 60% in the Acquiring Entity will be owned by Macquarie Infrastructure and Real Assets (MIRA) and British Columbia Investment Management Corporation (BCI) (together, the 'Consortium'). £2.0 billion of the cash consideration comes from additional debt financing raised by the Acquiring Entity at completion. The sale is expected to complete in the third quarter of the financial year ending 31 March 2023 subject to the receipt of all regulatory approvals.

On 27 March 2022, the Group also entered into a Further Acquisition Agreement (FAA) with the Consortium. This allows the Consortium to purchase the Group's 40% interest in the Acquiring Entity for £1.4 billion plus an annualised escalation factor. The FAA can be exercised either in the period between 1 January and 31 March 2023 or in the period between 1 April and 30 June 2023. The deferral of the option window is at our discretion (subject to change, depending on the timing of the closing of the sale agreement).

The Group classified the associated assets and liabilities of the business as held for sale in the consolidated statement of financial position as at 31 August 2021, when the sale was considered to be highly probable following management approval of the sale timetable and communication thereof to potential buyers. As at 31 March 2022, the following assets and liabilities of the UK Gas Transmission business were classified as held for sale:

	£m
Intangible assets	159
Property, plant and equipment	4,719
Trade and other receivables	215
Pension assets	664
Cash and cash equivalents	9
Financing derivatives	93
Other assets	12
<i>Total assets held for sale</i>	5,871
Borrowings	(4,165)
Deferred tax liabilities	(803)
Other liabilities	(562)
<i>Total liabilities held for sale</i>	(5,530)
Net assets held for sale	341

No impairment losses were recognised upon remeasurement of the assets and liabilities prior to classification as held for sale.

(b) Discontinued operations

Planned disposal of UK Gas Transmission

As UK Gas Transmission represents a major separate line of business, the business has also met the criteria for classification as a discontinued operation, and therefore the results of the business have been shown separately from the continuing business for all periods presented on the face of the income statement as a discontinued operation.

Disposal of Quadgas HoldCo Limited

In June 2019, the Group sold its remaining 39% interest in Cadent (held through its holding in Quadgas HoldCo Limited (Quadgas)). The aggregate carrying value of our investment in Quadgas at the disposal date was £1,956 million and the total sales proceeds were £1,965 million, resulting in a gain on disposal of £9 million.

We considered the disposal of our 39% investment in Quadgas as the final stage of the plan to dispose of our interest in the UK Gas Distribution business first announced in 2015, and accordingly treated the results and cash flows arising from Quadgas as a discontinued operation on the basis that the sale formed the final part of a 'single coordinated plan' to dispose of UK Gas Distribution.

10. Assets held for sale and discontinued operations continued

(b) Discontinued operations continued

The summary income statements for UK Gas Transmission and Quadgas, together representing the discontinued operations of the Group, for the years ended 31 March 2022, 2021 and 2020 are as follows:

	Before exceptional items and remeasurements			Exceptional items and remeasurements			Total		
	2022 £m	2021 £m	2020 £m	2022 £m	2021 £m	2020 £m	2022 £m	2021 £m	2020 £m
<i>Discontinued operations</i>									
Revenue	1,362	1,114	1,180	—	—	—	1,362	1,114	1,180
Other operating costs	(708)	(615)	(677)	(17)	(5)	(25)	(725)	(620)	(702)
<i>Operating profit</i>	654	499	503	(17)	(5)	(25)	637	494	478
Finance income	—	—	6	—	—	—	—	—	6
Finance costs ¹	(218)	(77)	(120)	(12)	2	(27)	(230)	(75)	(147)
<i>Profit before tax</i>	436	422	389	(29)	(3)	(52)	407	419	337
Tax ²	(92)	(82)	(72)	(144)	—	(39)	(236)	(82)	(111)
<i>Profit after tax from discontinued operations</i>	344	340	317	(173)	(3)	(91)	171	337	226
Gain on disposal	—	—	—	—	—	9	—	—	9
Total profit after tax from discontinued operations	344	340	317	(173)	(3)	(82)	171	337	235

1. Finance costs from discontinued operations include principal accretion of inflation linked liabilities in the UK Gas Transmission business of £158 million (2021: £38 million; 2020: £76 million).

2. Of the £144 million exceptional tax charge in the year ended 31 March 2022, £145 million relates to deferred tax due to the change in the UK corporation tax rate.

The summary statement of comprehensive income for discontinued operations for the years ended 31 March 2022, 2021 and 2020 are as follows:

	2022 £m	2021 £m	2020 £m
Profit after tax from discontinued operations	171	337	235
<i>Other comprehensive income/(loss) from discontinued operations</i>			
Items from discontinued operations that will never be reclassified to profit or loss:			
Remeasurement gains/(losses) on pension assets and post-retirement benefit obligations	309	(250)	58
Net losses on financial liability designated at fair value through profit and loss attributable to changes in own credit risk	(1)	(11)	(3)
Net losses in respect of cash flow hedging of capital expenditure	—	(2)	—
Tax on items that will never be reclassified to profit or loss	(94)	50	(20)
Total gains/(losses) from discontinued operations that will never be reclassified to profit or loss	214	(213)	35
Items from discontinued operations that may be reclassified subsequently to profit or loss:			
Net gains/(losses) in respect of cash flow hedges	1	3	(1)
Net (losses)/gains in respect of cost of hedging	(4)	(6)	2
Tax on items that may be reclassified subsequently to profit or loss	—	—	2
Total losses from discontinued operations that may be reclassified subsequently to profit or loss	(3)	(3)	3
Other comprehensive income/(loss) for the year, net of tax from discontinued operations	211	(216)	38
Total comprehensive income for the year from discontinued operations	382	121	273

Details of the cash flows relating to discontinued operations are set within the consolidated cash flow statement.

Notes to the consolidated financial statements continued

11. Goodwill

Goodwill represents the excess of what we paid to acquire businesses over the fair value of their net assets at the acquisition date. We assess whether goodwill is recoverable by performing an impairment review annually or more frequently if events or changes in circumstances indicate a potential impairment.

Goodwill and fair value adjustments arising on the acquisition of a foreign entity are treated as assets and liabilities of the foreign entity and translated at the closing exchange rate. Goodwill is allocated to cash-generating units (CGUs) and this allocation is made to those CGUs that are expected to benefit from the acquisition in which the goodwill arose.

Impairment is recognised where there is a difference between the carrying value of the CGU and the estimated recoverable amount of the CGU to which that goodwill has been allocated. Any impairment is recognised immediately in the income statement and is not subsequently reversed. Any impairment loss is first allocated to the carrying value of the goodwill and then to the other assets within the CGU. Recoverable amount is defined as the higher of fair value less costs to sell and estimated value-in-use at the date the impairment review is undertaken. Value-in-use represents the present value of expected future cash flows, discounted using a pre-tax discount rate that reflects current market assessments of the time value of money and the risks specific to the asset for which the estimates of future cash flows have not been adjusted.

	Total £m
Net book value at 1 April 2020	5,712
Exchange adjustments	(562)
Reclassification to held for sale (note 10)	(562)
Net book value at 1 April 2021	4,588
Exchange adjustments	223
Acquisition of WPD (note 37)	4,721
Net book value at 31 March 2022	9,532

There was no significant accumulated impairment charge as at 31 March 2022 or 31 March 2021.

Following the announcement of the planned sale of NECO (see note 10), goodwill balances relating to our Rhode Island CGU and a portion of the goodwill relating to our previously reported Federal CGU were reclassified as held for sale in the prior period. Following the implementation of our new operating model during the year ended 31 March 2022, we have reassessed our CGUs. The Federal CGU (£544 million) is now allocated across the New York, New England and National Grid Ventures Renewables CGUs. The Massachusetts CGU (£963 million) is now allocated to the New England CGU. These changes reflect the updated level at which goodwill is now monitored for internal management purposes.

Impairment review of goodwill and indefinite-lived intangibles

Goodwill and indefinite-lived intangibles (see note 12) are reviewed annually for impairment and the recoverability is assessed by comparing the carrying amount of our operations with the expected recoverable amount on a value-in-use basis which uses pre-financing and pre-tax cash flow projections based on the Group's financial plans, approved by the Directors, as a starting point. See below for a summary of which operations our goodwill and indefinite-lived intangibles are allocated to:

CGU or group of CGUs	2022 £m
Goodwill:	
National Grid Ventures Renewables	150
New England	1,510
New York	3,151
WPD ¹	4,721
Total goodwill	9,532
Indefinite-lived intangibles (regulatory licences related to WPD):	
West Midlands	518
East Midlands	519
South Wales	257
South West	420
Total indefinite-lived intangibles	1,714

1. This is a combination of the West Midlands, East Midlands, South Wales and South West CGUs, reflecting the level at which the goodwill is monitored.

In each assessment, the value-in-use has been calculated assuming a stable regulatory framework and is based on projections that incorporate our best estimates of future cash flows, including costs, changes in commodity prices, future rates and growth. Such projections reflect our current regulatory agreements, taking into account regulatory arrangements to allow for future agreements and recovery of investment, including those related to achieving the net zero plans of the jurisdictions that we operate in. Our plans have proved to be reliable guides in the past and the Directors believe the estimates are appropriate.

11. Goodwill continued

(a) Cash flow periods, terminal value and discount rate assumptions

We select cash flow durations longer than five years, when our forecasts are considered reliable. The cash flow durations selected reflect our knowledge and understanding of the regulatory environments in which we operate, and most significantly, where markets have legislated decarbonisation commitments by 2050, we utilise longer cash flow forecasts that reflect the investment required to deliver those commitments before applying a terminal value at the point those commitments are due to be fulfilled and market growth is expected to stabilise. For our regulated WPD operations, we consider cash flow durations that run until 2050, reflecting the expected investment required in the network, in excess of economy-wide long-term growth rates in order to deliver the energy transition. For our regulated US operations (New York and New England CGUs), we use a five-year cash flow forecast.

For our WPD business, a nominal terminal growth rate of 2.5% is assumed upon the terminal year cash flows, reflecting management's best view, based on market and operational experience, of the expected long-term growth in the relevant market. For our US regulated operations, due to differences in the regulatory framework and the combination of gas and electricity networks, we apply a growth rate of 2.25%. This has been determined with regard to data on industry growth projections, specifically related to the energy transition, and projected growth in real gross domestic product (GDP) for the territory within which the CGU is based.

Pre-tax cash flows are discounted by applying a pre-tax discount rate reflecting the time value of money and the risks specific to the group of assets. In practice, the post-tax discount rate for the group of assets in question is taken as a starting point, before considering industry peer discount rates to apply adjustments, as required, ensuring the rate applied is independent of the entity's capital structure and to reflect a market participants' view of a risk adjusted discount rate specific to the CGU or group of CGUs. The post-tax discount rate is then grossed up to a pre-tax discount rate that is applied to pre-tax cash flows. The pre-tax discount rates used for the year ended 31 March 2022 were as follows: WPD Group 5.2%; WPD DNOs 4.9%; New York 5.5%; and New England 5.6%.

The discount rate and terminal growth rate applied in the year ended 31 March 2021 to the CGUs assessed at that date were 5.3% and 2.1% respectively.

(b) Key inputs and sensitivity analysis

In assessing the carrying value of goodwill and licences, we have sensitised our forecasts to factor in adjustments to key inputs to each model. Whilst regulatory licences are tested for impairment before we test goodwill, we consider the sensitivity for all balances separately for WPD and our regulated US operations below.

WPD goodwill

We identified the discount rate and the terminal growth rate as key assumptions for which the value-in-use calculation is the most sensitive in our impairment review. A reduction in the terminal growth rate to 2% resulted in WPD's carrying amount equalling its recoverable amount. Considering the sensitivity to the discount rate applied, we found that increasing the pre-tax discount rate by 0.2% (to 5.4%) will result in WPD's carrying amount equalling its recoverable amount (see notes 1 and 35).

WPD indefinite-lived regulatory licences

No reasonable changes to inputs to the impairment test performed over the South West, East Midlands, West Midlands and South Wales Distribution Network Operator CGUs were identified as resulting in an impairment.

Regulated US operations: New York and New England goodwill

While it is possible that a key assumption in the calculation could change, the Directors believe that no reasonably foreseeable change would result in an impairment of goodwill, in view of the long-term nature of the key assumptions and the margin by which the estimated value-in-use exceeds the carrying amount. This remains the case even after taking into account the short-term effects of COVID-19 and inflationary pressures, the most significant of which is an increase in bad debt charges in the short term, but not a risk of impairment to goodwill.

12. Other intangible assets

Other intangible assets include software which is written down (amortised) over the period we expect to receive a benefit from the asset. An amortisation expense is charged to the income statement to reflect the reduced value of the asset over time. Amortisation is calculated by estimating the number of years we expect the asset to be used (useful economic life or UEL) and charging the cost of the asset to the income statement equally over this period.

Indefinite-lived intangibles comprise regulatory licences for which there is no foreseeable limit to the period over which they are expected to generate net cash inflows. These assets are considered to have an indefinite life and are not amortised but subject to a review for impairment annually, or more frequently if events or circumstances indicate a potential impairment. Any impairment is charged to the income statement as it arises.

Identifiable intangible assets are recorded at cost less accumulated amortisation and any provision for impairment, with the exception of regulatory licences that are assessed to have indefinite lives and are therefore tested annually for impairment (see note 11 for details of impairment tests performed over indefinite-lived intangible assets). Other intangible assets are tested for impairment only if there is an indication that the carrying value of the assets may have been impaired. Impairments of assets are calculated as the difference between the carrying value of the asset and the recoverable amount, if lower. Where such an asset does not generate cash flows that are independent from other assets, the recoverable amount of the CGU to which that asset belongs is estimated. Impairments are recognised in the consolidated income statement within Other operating income and costs. Any assets which suffered impairment in a previous period are reviewed for possible reversal of the impairment at each reporting date.

The Group's regulatory licences relate to electricity distribution licences acquired in connection with the Group's acquisition of WPD on 14 June 2021 (see note 37). The licences provide the right to operate and invest in the relevant network that operates as a monopoly in the licensed geographic area. Once granted by Ofgem, the licence is issued to a licensee on the basis that it remains active into perpetuity. On that basis, the value attributed to the electricity distribution network licence assets is considered to have an indefinite useful life.

Internally generated intangible assets, such as software, are recognised only if: i) an asset is created that can be identified; ii) it is probable that the asset created will generate future economic benefits; and iii) the development cost of the asset can be measured reliably. Where no internally generated intangible asset can be recognised, development expenditure is recorded as an expense in the period in which it is incurred.

Cloud computing arrangements are reviewed to determine if the Group has control of the software intangible asset. Control is considered to exist where the Group has the right to take possession of the software and run it on its own or a third party's computer infrastructure or if the Group has exclusive rights to use the software such that the supplier is unable to make the software available to other customers.

Costs relating to configuring or customising the software in a cloud computing arrangement are assessed to determine if there is a separate intangible asset over which the Group has control. If an asset is identified, it is capitalised and amortised over the useful economic life of the asset. To the extent that no separate intangible asset is identified, then the costs are either expensed when incurred or recognised as a prepayment and spread over the term of the arrangement if the costs are concluded to not be distinct.

The accounting for costs incurred in cloud computing arrangements represents the application of new accounting guidance for the Group for the year ended 31 March 2022. Certain costs which were previously capitalised in respect of the Group's cloud computing arrangements have been expensed in the period.

12. Other intangible assets continued

Other than regulatory licences, intangible assets are amortised on a straight-line basis over their estimated useful economic lives. Amortisation periods for other intangible assets are:

	Years
Software	3 to 10
Regulatory licences	Indefinite

	Regulatory licences ¹ £m	Software £m	Assets in the course of construction £m	Total £m
Cost at 1 April 2020	—	2,026	557	2,583
Exchange adjustments	—	(102)	(43)	(145)
Additions	—	7	414	421
Disposals	—	(47)	(2)	(49)
Reclassifications ²	—	255	(240)	15
Reclassification to held for sale (note 10)	—	(19)	—	(19)
Cost at 1 April 2021	—	2,120	686	2,806
Exchange adjustments	—	69	11	80
Additions	—	15	513	528
Acquisition of WPD (note 37)	1,714	49	—	1,763
Disposals	—	(7)	—	(7)
Reclassifications ²	—	260	(302)	(42)
Reclassification to held for sale (note 10)	—	(431)	(38)	(469)
Cost at 31 March 2022	1,714	2,075	870	4,659
Accumulated amortisation at 1 April 2020	—	(1,288)	—	(1,288)
Exchange adjustments	—	61	—	61
Amortisation charge for the year	—	(196)	—	(196)
Accumulated amortisation of disposals	—	44	—	44
Reclassification to held for sale (note 10)	—	16	—	16
Accumulated amortisation at 1 April 2021	—	(1,363)	—	(1,363)
Exchange adjustments	—	(33)	—	(33)
Amortisation charge for the year	—	(297)	—	(297)
Impairment ³	—	—	(10)	(10)
Accumulated amortisation of disposals	—	7	—	7
Reclassification to held for sale (note 10)	—	309	—	309
Accumulated amortisation at 31 March 2022	—	(1,377)	(10)	(1,387)
Net book value at 31 March 2022⁴	1,714	698	860	3,272
Net book value at 31 March 2021	—	757	686	1,443

1. Relates to the licence intangibles acquired as part of the acquisition of WPD (see note 37). The Group assesses its indefinite-life intangible assets for impairment annually (see note 11).
2. Reclassifications includes amounts transferred to property, plant and equipment (see note 13).
3. Depreciation of assets in the course of construction relates to impairment provision adjustments recognised in the year.
4. The Group has capitalised £366 million (2021: £298 million) in relation to the Gas Business Enablement system in the US, of which £152 million (2021: £82 million) is in service and is being amortised over 10 years, with the remainder included within assets in the course of construction. A further £103 million (2021: £nil) in relation to our new UK general ledger system was reclassified from assets in the course of construction to software assets in the period to 31 March 2022, and is now amortised over 10 years.

Notes to the consolidated financial statements continued

13. Property, plant and equipment

Property, plant and equipment are the physical assets controlled by us. The cost of these assets primarily represents the amount initially paid for them or the fair value on the date of acquisition of a business. Cost includes both their purchase price and the construction and other costs associated with getting them ready for operation. A depreciation expense is charged to the income statement to reflect annual wear and tear and the reduced value of the asset over time. Depreciation is calculated by estimating the number of years we expect the asset to be used (useful economic life or UEL) and charging the cost of the asset to the income statement equally over this period.

We operate an energy networks business and therefore have a significant physical asset base. We continue to invest in our networks to maintain reliability, create new customer connections and ensure our networks are flexible and resilient. Our business plan envisages these additional investments will be funded through a mixture of cash generated from operations and the issue of new debt.

Property, plant and equipment is recorded at cost, less accumulated depreciation and any impairment losses. Cost includes the purchase price of the asset; any payroll and finance costs incurred which are directly attributable to the construction of property, plant and equipment together with an appropriate portion of overheads which are directly linked to the capital work performed; and the cost of any associated asset retirement obligations.

Property, plant and equipment includes assets in which the Group's interest comprises legally protected statutory or contractual rights of use. Additions represent the purchase or construction of new assets, including capital expenditure for safety and environmental assets, and extensions to, enhancements to, or replacement of, existing assets. All costs associated with projects or activities which have not been fully commissioned at the period end are classified within assets in the course of construction.

Items within property, plant and equipment are tested for impairment only if there is some indication that the carrying value of the assets may have been impaired. Impairments of assets are calculated as the difference between the carrying value of the asset and the recoverable amount, if lower. Where such an asset does not generate cash flows that are independent from other assets, the recoverable amount of the cash-generating unit to which that asset belongs is estimated. Impairments are recognised in the income statement and if immaterial are included within the depreciation charge for the year.

(a) Analysis of property, plant and equipment

	Land and buildings £m	Plant and machinery £m	Assets in the course of construction £m	Motor vehicles and office equipment £m	Total £m
Cost at 1 April 2020	3,897	59,609	4,771	1,036	69,313
Exchange adjustments	(213)	(3,308)	(130)	(73)	(3,724)
Additions	89	328	4,023	70	4,510
Disposals	(6)	(344)	(26)	(48)	(424)
Reclassifications ¹	96	3,007	(3,243)	77	(63)
Reclassification to held for sale (note 10)	(111)	(3,231)	(174)	(44)	(3,560)
Cost at 1 April 2021	3,752	56,061	5,221	1,018	66,052
Exchange adjustments	97	1,627	111	37	1,872
Additions	22	926	4,843	129	5,920
Acquisition of WPD (note 37)	200	9,512	185	154	10,051
Disposals	(165)	(367)	—	(88)	(620)
Reclassifications ¹	62	4,063	(4,133)	89	81
Reclassification to held for sale (note 10)	(309)	(8,800)	(640)	(267)	(10,016)
Cost at 31 March 2022	3,659	63,022	5,587	1,072	73,340
Accumulated depreciation at 1 April 2020	(847)	(18,042)	—	(662)	(19,551)
Exchange adjustments	37	698	—	46	781
Depreciation charge for the year	(90)	(1,270)	—	(116)	(1,476)
Disposals	—	339	—	48	387
Reclassifications ¹	2	(5)	—	6	3
Reclassification to held for sale (note 10)	22	798	—	27	847
Accumulated depreciation at 1 April 2021	(876)	(17,482)	—	(651)	(19,009)
Exchange adjustments	(20)	(351)	—	(23)	(394)
Depreciation charge for the year ²	(114)	(1,300)	(48)	(167)	(1,629)
Disposals	29	311	—	88	428
Reclassifications ¹	15	(40)	(18)	2	(41)
Reclassification to held for sale (note 10)	193	4,421	6	217	4,837
Accumulated depreciation at 31 March 2022	(773)	(14,441)	(60)	(534)	(15,808)
Net book value at 31 March 2022	2,886	48,581	5,527	538	57,532
Net book value at 31 March 2021	2,876	38,579	5,221	367	47,043

1. Represents amounts transferred between categories, (to)/from other intangible assets (see note 12), from inventories and reclassifications between cost and accumulated depreciation.

2. Depreciation of assets in the course of construction relates to impairment provision adjustments recognised in the year.

13. Property, plant and equipment continued

(a) Analysis of property, plant and equipment continued

	2022 £m	2021 £m
<i>Information in relation to property, plant and equipment</i>		
Capitalised interest included within cost	2,114	2,233
Contributions to cost of property, plant and equipment included within:		
Trade and other payables	137	138
Non-current liabilities	421	400
Contract liabilities – current	130	66
Contract liabilities – non-current	1,342	1,094

(b) Asset useful economic lives

No depreciation is provided on freehold land or assets in the course of construction. Other items of property, plant and equipment are depreciated, on a straight-line basis, at rates estimated to write off their book values over their estimated useful economic lives. In assessing estimated useful economic lives, consideration is given to any contractual arrangements and operational requirements relating to particular assets. The assessments of estimated useful economic lives and residual values of assets are performed annually.

Unless otherwise determined by operational requirements, the depreciation periods for the principal categories of property, plant and equipment are, in general, as shown in the table below split between the UK and US, along with the weighted average remaining UEL for each class of property, plant and equipment (which is calculated by applying the annual depreciation charge per class of asset to the net book value of that class of asset).

	Years		Weighted average remaining UEL ¹
	UK	US	
Freehold and leasehold buildings	up to 60	up to 100	41
Plant and machinery:			
Electricity transmission plant and wires	up to 100	45 to 80	31
Electricity distribution plant	3 to 99	35 to 85	45
Electricity generation plant	n/a	20 to 93	12
Interconnector plant and other	5 to 60	5 to 50	32
Gas plant – mains, services and regulating equipment	n/a	47 to 80	55
Gas plant – storage	5 to 40	12 to 65	12
Gas plant – meters	7 to 30	14 to 40	24
Motor vehicles and office equipment	up to 30	up to 26	5

1. Excluded from the above table are depreciation periods in respect of items of property, plant and equipment which are classified as held for sale as at 31 March 2022.

(c) Gas asset lives

The role that gas networks play in the pathway to achieving the greenhouse gas emissions reductions targets set in the jurisdictions in which we operate is currently uncertain. However, we believe the gas assets which we own and operate today will continue to have a crucial role in maintaining security, reliability and affordability of energy beyond 2050, although the scale and purpose for which the networks will be used is dependent on technological developments and policy choices of governments and regulators.

With respect to our US gas distribution assets, asset lives are assessed as part of detailed depreciation studies completed as part of each separate rate proceeding. Depreciation studies consider the physical condition of assets and the expected operational life of an asset. We believe these assessments are our best estimate of the UEL of our gas network assets in the US.

The weighted average remaining UEL for our US gas distribution fixed asset base is circa 58 years, however a sizeable proportion of our assets are assumed to have UELs which extend beyond 2080. We continue to believe the lives identified by rate proceedings are the best estimate of the assets' UELs, although we continue to keep this assumption under review as we learn more about possible future pathways towards net zero. Whilst the targets, goals and ambitions have now been formalised in legislation in the states in which we operate, there is widespread recognition that work needs to be done to define the possible future decarbonisation pathways. We continue to actively engage and support our regulators to enable the clean energy transition in a safe, reliable and affordable way.

Asset depreciation lives feed directly into our US regulatory recovery mechanisms, such that any shortening of asset lives and regulatory recovery periods as agreed with regulators should be recoverable through future rates, subject to agreement, over future periods, as part of wider considerations around ensuring the continuing affordability of gas in our service territories.

Given the uncertainty described relating to the UELs of our gas assets, below we provide a sensitivity on the depreciation charge for our New York and New England segments were a shorter UEL presumed:

	Increase in depreciation expense for the year ended 31 March 2022		Increase in depreciation expense for the year ended 31 March 2021 ¹	
	New York £m	New England £m	New York £m	New England £m
UELs limited to 2050	140	40	125	35
UELs limited to 2060	67	15	57	13
UELs limited to 2070	31	1	26	2

1. Comparative amounts have been re-presented to reflect the new operating segments and the classification of the UK Gas Transmission business as a discontinued operation. See notes 1, 2 and 10 for further information.

Notes to the consolidated financial statements continued

13. Property, plant and equipment continued

(c) Gas asset lives continued

Note that this sensitivity calculation excludes any assumptions regarding the residual value for our asset base and the effect that shortening asset depreciation lives would be expected to have on our regulatory recovery mechanisms. In the event that any of the US gas distribution assets are stranded, the Group would expect to recover the associated costs. While recovery is not guaranteed and is determined by regulators in the US, there are precedents for stranded asset cost recovery for US utility companies.

(d) Right-of-use assets

The Group leases various properties, land, equipment and cars. New lease arrangements entered into are recognised as a right-of-use asset and a corresponding liability at the date at which the leased asset is available for use by the Group. The right-of-use asset and associated lease liability arising from a lease are initially measured at the present value of the lease payments expected over the lease term. The lease payments include fixed payments, any variable lease payments dependent on an index or a rate, and any break fees or renewal option costs that we are reasonably certain to incur. The discount rate applied is the rate implicit in the lease or, if that is not available, then the incremental rate of borrowing for a similar term and similar security (which is determined based on observable data for borrowing rates for the specific group entity that has entered into the lease, with specific adjustments for the term of the lease and any lease-specific risk premium). The lease term takes account of exercising any extension options that are at our option if we are reasonably certain to exercise the option and any lease termination options unless we are reasonably certain not to exercise the option. Each lease payment is allocated between the liability and finance cost. The finance cost is charged to the income statement over the lease period using the effective interest rate method. The right-of-use asset is depreciated over the shorter of the asset's useful life and the lease term on a straight-line basis. For short-term leases (lease term of 12 months or less) and leases of low-value assets (such as computers), the Group continues to recognise a lease expense on a straight-line basis.

The table below shows the movements in the net book value of right-of-use assets included within property, plant and equipment at 31 March 2022 and 31 March 2021, split by category. The associated lease liabilities are disclosed in note 21.

	Land and buildings £m	Plant and machinery £m	Assets in the course of construction £m	Motor vehicles and office equipment £m	Total £m
Net book value at 1 April 2020	364	95	—	225	684
Exchange adjustments	(30)	(4)	—	(22)	(56)
Additions	60	6	—	64	130
Reclassifications	—	—	—	(15)	(15)
Depreciation charge for the year	(29)	(16)	—	(68)	(113)
Net book value at 31 March 2021	365	81	—	184	630
Exchange adjustments	10	1	—	10	21
Additions	14	2	—	88	104
Acquisition of WPD (note 37)	7	2	—	—	9
Reclassification to held for sale (note 10)	(7)	—	—	(4)	(11)
Modifications of leases ¹	(122)	—	—	—	(122)
Disposals	(2)	—	—	(1)	(3)
Depreciation charge for the year	(40)	(16)	—	(67)	(123)
Net book value at 31 March 2022	225	70	—	210	505

1. The Group entered into an agreement to reduce the lease term of its New England corporate office, Reservoir Woods, with effect from October 2021. The existing lease liability and right-of-use asset have been remeasured based on the terms of the modified lease.

The following balances have been included in the income statement for the years ended 31 March 2022 and 31 March 2021 in respect of right-of-use assets:

	2022 £m	2021 £m
<i>Included within net finance income and costs:</i>		
Interest expense on lease liabilities	(18)	(21)
<i>Included within revenue:</i>		
Lease income ¹	385	390
<i>Included within operating expenses:</i>		
Expense relating to short-term and low-value leases	(14)	(13)

1. Included within lease income is £374 million (2021: £376 million) of variable lease payments, the majority of which relates to the power supply arrangement entered into with LIPA (see note 3).

The total of future minimum sublease payments expected to be received under non-cancellable subleases is £108 million (2021: £104 million).

14. Other non-current assets

Other non-current assets include assets that do not fall into any other non-current asset category (such as goodwill or property, plant and equipment) where the benefit to be received from the asset is not due to be received until after 31 March 2023.

	2022 £m	2021 £m
Other receivables	110	45
Non-current tax assets	6	6
Prepayments	—	5
Accrued income ¹	187	237
	303	293

1. Includes accrued income in relation to property sales to St William Homes LLP and other companies within The Berkeley Group. Following completion of the sale of St William Homes LLP on 15 March 2022, the outstanding accrued income due from St William Homes LLP became due from other companies within The Berkeley Group (see note 16).

15. Financial and other investments

The Group holds a range of financial and other investments. These investments include short-term money market funds, quoted investments in equities or bonds of other companies, investments in our venture capital portfolio (National Grid Partners), bank deposits with a maturity of greater than three months, and investments that can not be readily used in operations, principally collateral deposited in relation to derivatives.

The classification of each investment held by the Group is determined based on two main factors:

- its contractual cash flows – whether the assets cash flows are solely payments of the principal and interest on the financial asset on pre-determined dates or whether the cash flows are determined by other factors such as the performance of a company; and
- the business model for holding the investments – whether the intention is to hold onto the investment for the longer term (collect the contractual cash flows), or to sell the asset with the intention of managing any gain or loss on sale or to manage any liquidity requirements.

The four categories of financial and other investments are as follows:

- Financial assets at amortised cost – debt instruments that have contractual cash flows that are solely payments of principal and interest, and which are held within a business model whose objective is to collect contractual cash flows, are held at amortised cost. This category includes our receivables in relation to deposits and collateral;
- FVOCI debt and other investments – debt investments, such as bonds, that have contractual cash flows that are solely payments of principal and interest, and which are held within a business model whose objective is both to collect the contractual cash flows and to sell the debt instruments, are measured at fair value through other comprehensive income (FVOCI), with gains or losses recognised in the consolidated statement of comprehensive income instead of through the income statement. On disposal, any gains or losses are recognised within finance income in the income statement (see note 6). Other investments include insurance contracts, measured at fair value, and held to back the present value of unfunded pension liabilities in note 25;
- FVOCI equity instruments – the Group previously held equity instruments which it elected to measure at FVOCI on the basis that they were not held for trading and so the recognition of any gains and losses on these investments in the income statement would not have been representative of performance. The shares were held as part of a portfolio of financial instruments which back some long-term employee liabilities. In the year ended 31 March 2022, the Group sold all of the remaining equities as part of a plan to de-risk that investment portfolio. The fair value of the equities on the date of sale was £111 million and upon disposal realised gains and losses of £82 million were transferred to retained earnings (see note 28); and
- FVTPL investments – other financial investments are subsequently measured at fair value with any gains or losses recognised in the income statement (FVTPL). This primarily comprises our money market funds, insurance company fund investments and corporate venture capital investments held by National Grid Partners.

Financial and other investments are initially recognised on trade date. Subsequent to initial recognition, the fair values of financial assets that are quoted in active markets are based on bid prices. When independent prices are not available, fair values are determined using valuation techniques used by the relevant markets using observable market data where possible (see note 32(g) for further details).

Notes to the consolidated financial statements continued

15. Financial and other investments continued

	2022 £m	2021 £m
<i>Non-current</i>		
FVOCI debt and other investments	413	416
FVOCI equity investments ¹	—	99
FVTPL investments	417	240
	830	755
<i>Current</i>		
FVTPL investments	2,292	1,768
Financial assets at amortised cost	853	574
	3,145	2,342
	3,975	3,097
Financial and other investments include the following:		
Investments in short-term money market funds	1,936	1,412
Investments held by National Grid Partners	309	136
Investments in Sunrun	109	103
Balances that are restricted or not readily used in operations:		
Collateral ²	806	540
Insurance company and non-qualified plan investments	534	589
Cash surrender value of life insurance policies	234	283
Other investments	47	34
	3,975	3,097

1. In the year ended 31 March 2022, the Group sold its equity investments which were previously held in relation to non-qualified pension plans in the US.

2. The collateral balance includes £802 million (2021: £480 million) of collateral placed with counterparties with whom we have entered into a credit support annex to the International Swaps and Derivatives Association (ISDA) Master Agreement and £4 million (2021: £18 million) of restricted amounts allocated for specific projects within the National Grid Electricity System Operator. In the year ended 31 March 2021, £42 million of the balance included collateral paid by operating companies as security deposits. In the current year this collateral has been replaced with letters of credit as permitted under the Connection and Use of System Code.

FVTPL and FVOCI investments are recorded at fair value. The carrying value of current financial assets at amortised cost approximates their fair values, primarily due to short-dated maturities. The exposure to credit risk at the reporting date is the fair value of the financial investments. For further information on our credit risk, refer to note 32(a).

For the purposes of impairment assessment, the investments in bonds are considered to be low risk as they are investment grade securities; life insurance policies are held with regulated insurance companies; and deposits, collateral receivable and other financial assets at amortised cost are investment grade. All financial assets held at FVOCI or amortised cost are therefore considered to have low credit risk and have an immaterial impairment loss allowance equal to 12-month expected credit losses.

In determining the expected credit losses for these assets, some or all of the following information has been considered: credit ratings, the financial position of counterparties, the future prospects of the relevant industries and general economic forecasts.

No FVOCI or amortised cost financial assets have had modified cash flows during the period. There has been no change in the estimation techniques or significant assumptions made during the year in assessing the loss allowance for these financial assets. There were no significant movements in the gross carrying value of financial assets during the year that contribute to changes in the loss allowance. No collateral is held in respect of any of the financial investments in the above table. No balances are more than 30 days past due, and no balances were written off during the year.

16. Investments in joint ventures and associates

Investments in joint ventures and associates represent businesses we do not control but over which we exercise joint control or significant influence. They are accounted for using the equity method. A joint venture is an arrangement established to engage in economic activity, which the Group jointly controls with other parties and has rights to a share of the net assets of the arrangement. An associate is an entity which is neither a subsidiary nor a joint venture, but over which the Group has significant influence.

	2022			2021		
	Associates £m	Joint ventures £m	Total £m	Associates £m	Joint ventures £m	Total £m
Share of net assets at 1 April	229	638	867	341	654	995
Exchange adjustments	6	19	25	(22)	(36)	(58)
Additions	17	469	486	6	75	81
Share of post-tax results for the year	43	49	92	30	28	58
Share of other comprehensive income of associates, net of tax	1	—	1	1	—	1
Dividends received	(35)	(123)	(158)	(31)	(49)	(80)
Disposals	—	(50)	(50)	—	—	—
Other movements ¹	16	(41)	(25)	(96)	(34)	(130)
Share of net assets at 31 March	277	961	1,238	229	638	867

1. Other movements relate to tax liabilities for US and certain UK associates and joint ventures which are borne by the Group and the elimination of profits arising from sales to the Group's share of joint ventures. Within associates, the other movements in the year ended 31 March 2021 primarily relates to the reclassification of the Group's investment in Sunrun from an investment in an associate to financial investments.

A list of joint ventures and associates including the name and proportion of ownership is provided in note 34. Transactions with and outstanding balances with joint ventures and associates are shown in note 31. The joint ventures and associates have no significant contingent liabilities to which the Group is exposed, and the Group has no significant contingent liabilities in relation to its interests in the joint ventures and associates. The Group has capital commitments of £714 million (2021: £141 million) in relation to joint ventures and associates.

On 15 March 2022, the Group disposed of its entire 50% interest in St William Homes LLP to The Berkeley Group for cash consideration of £413 million. The receipt of cash has been recognised within net cash used in investing activities within the cash flow statement. The Group recognised a gain on disposal of £228 million within Other operating income and costs and released to revenue deferred income of £189 million which related to deferred profits related to previous property sales to St William Homes LLP. The gain on disposal and the release of deferred income are both classified as exceptional in the year (see note 5).

The following table describes the Group's material joint ventures and associates at 31 March 2022:

Joint venture	% stake	
BritNed Development Limited ¹	50%	BritNed is a joint venture with the Dutch transmission system operator, TenneT, and operates the subsea electricity link between Great Britain and the Netherlands, commissioned in 2011.
Nemo Link Limited ¹	50%	Nemo is a joint venture with the Belgian transmission operator, Elia, and is a subsea electricity interconnector between Great Britain and Belgium, which became operational on 31 January 2019.
Emerald Energy Venture LLC	51%	Emerald is a joint venture with Washington State Investment Board and builds and operates wind and solar assets. Emerald was acquired on 11 July 2019.
Bight Wind Holdings LLC	27.3%	Bight Wind is a joint venture with RWE Renewables. Following the successful win at auction of six seabed leases in northeastern US on 25 February 2022, Bight Wind will commence the development of an offshore wind project which will play a key role in supplying clean energy to customers in New York. At 31 March 2022, the Group has an amount payable to Bight Wind of £223 million in respect of a capital call to the Group which is payable in April 2022. The assets, liabilities and results of Bight Wind will become material to the Group upon recognition of the seabed lease in the year ending 31 March 2023.
Material associate	% stake	
Millennium Pipeline Company LLC	26.25%	Millennium Pipeline Company LLC is an associate that owns a natural gas pipeline from southern New York to the Lower Hudson Valley.

1. BritNed and Nemo have reporting periods ending on 31 December with monthly management reporting information provided to National Grid.

Notes to the consolidated financial statements continued

16. Investments in joint ventures and associates continued

Summarised financial information as at 31 March, together with the carrying amount of material investments, is as follows:

	BritNed Development Limited		Nemo Link Limited		Emerald Energy Venture LLC		Millennium Pipeline Company LLC	
	2022 £m	2021 £m	2022 £m	2021 £m	2022 £m	2021 £m	2022 £m	2021 £m
<i>Statement of financial position</i>								
Non-current assets	390	409	515	536	1,070	559	800	795
Cash and cash equivalents	77	47	7	31	134	112	33	27
All other current assets	10	24	7	8	8	12	29	24
Non-current liabilities	(52)	(50)	(34)	(30)	(182)	(182)	(237)	(256)
Non-current financial liabilities	(29)	(31)	—	—	(310)	(104)	—	—
Current liabilities	(15)	(22)	(33)	(19)	(66)	(25)	(45)	(38)
Current financial liabilities	—	—	—	—	(23)	(2)	—	—
Net assets	381	377	462	526	631	370	580	552
Group's ownership interest in joint venture/associate	191	189	231	263	322	189	152	145
Group adjustment: elimination of profits on sales to joint venture	—	—	—	—	(49)	(23)	—	—
Carrying amount of the Group's investment	191	189	231	263	273	166	152	145

	BritNed Development Limited		Nemo Link Limited		Emerald Energy Venture LLC		Millennium Pipeline Company LLC	
	2022 £m	2021 £m	2022 £m	2021 £m	2022 £m	2021 £m	2022 £m	2021 £m
<i>Income statement</i>								
Revenue	131	72	148	66	25	28	200	199
Depreciation and amortisation	(15)	(15)	(23)	(24)	(17)	(14)	(43)	(43)
Other costs	(9)	(15)	(6)	(6)	(145)	(22)	(20)	(21)
Operating profit/(loss)	107	42	119	36	(137)	(8)	137	135
Net interest expense	(2)	(1)	(1)	—	(5)	—	(21)	(18)
Profit/(loss) before tax	105	41	118	36	(142)	(8)	116	117
Income tax expense	(20)	(11)	(22)	(14)	—	—	—	—
Profit/(loss) for the year	85	30	96	22	(142)	(8)	116	117
Group's share of profit/(loss)	43	15	48	11	(72)	(4)	30	31
Group adjustment: tax credit/(charge)	—	—	—	—	19	1	(8)	(9)
Group's share of post-tax results for the year	43	15	48	11	(53)	(3)	22	22

17. Derivative financial instruments

Derivatives are financial instruments that derive their value from the price of an underlying item such as interest rates, foreign exchange rates, credit spreads, commodities, equities or other indices. In accordance with policies approved by the Board, derivatives are transacted generally to manage exposures to fluctuations in interest rates, foreign exchange rates and commodity prices. Our derivatives balances comprise two broad categories:

- financing derivatives: These are used to manage our exposure to interest rates and foreign exchange rates. Specifically, we use these derivatives to manage our financing portfolio, holdings in foreign operations and contractual operational cash flows; and
- commodity contract derivatives: These are used to manage our US customers' exposure to price and supply risks. Some forward contracts for the purchase of commodities meet the definition of derivatives. We also enter into derivative financial instruments linked to commodity prices, including index futures, options and swaps, which are used to manage market price volatility.

Derivatives are initially recognised at fair value and subsequently remeasured to fair value at each reporting date. Changes in fair values are recorded in the period they arise, in either the consolidated income statement or other comprehensive income. Where the gains or losses recorded in the income statement arise from changes in the fair value of derivatives to the extent that hedge accounting is not applied or is not fully effective, these are recorded as remeasurements, detailed in notes 5 and 6. Where the fair value of a derivative is positive it is carried as a derivative asset, and where negative as a derivative liability.

The fair value of derivative financial instruments is calculated by taking the present value of future cash flows, primarily incorporating market observable inputs. The various inputs include foreign exchange spot and forward rates, yield curves of the respective currencies, currency basis spreads between the respective currencies, interest rate and inflation curves, the forward rate curves of underlying commodities, and for those positions that are not fully cash collateralised, the credit quality of the counterparties.

Certain clauses embedded in non-derivative financial instruments or other contracts are presented as derivatives because they impact the risk profile of their host contracts and they are deemed to have risks or rewards not closely related to those host contracts.

Further information on how derivatives are valued and used for risk management purposes is presented in note 32. Information on commodity contracts and other commitments not meeting the definition of derivatives is presented in note 30.

The fair values of derivatives by category are as follows:

	2022			2021		
	Assets £m	Liabilities £m	Total £m	Assets £m	Liabilities £m	Total £m
Current	282	(144)	138	457	(145)	312
Non-current	305	(869)	(564)	542	(754)	(212)
	587	(1,013)	(426)	999	(899)	100
Financing derivatives	298	(991)	(693)	942	(767)	175
Commodity contract derivatives	289	(22)	267	57	(132)	(75)
	587	(1,013)	(426)	999	(899)	100

(a) Financing derivatives

The fair values of financing derivatives by type are as follows:

	2022			2021		
	Assets £m	Liabilities £m	Total £m	Assets £m	Liabilities £m	Total £m
Interest rate swaps	89	(97)	(8)	325	(159)	166
Cross-currency interest rate swaps	174	(642)	(468)	601	(351)	250
Foreign exchange forward contracts ¹	35	(65)	(30)	16	(74)	(58)
Inflation-linked swaps	—	(187)	(187)	—	(183)	(183)
	298	(991)	(693)	942	(767)	175

1. Included within the foreign exchange forward contracts balance are £21 million (2021: £32 million) of derivative liabilities in relation to the hedging of capital expenditure and a deal-contingent foreign exchange forward contract liability of £nil (2021: £9 million) in relation to the disposal of NECO (see note 10).

Notes to the consolidated financial statements continued

17. Derivative financial instruments continued

(a) Financing derivatives continued

The maturity profile of financing derivatives is as follows:

	2022			2021		
	Assets £m	Liabilities £m	Total £m	Assets £m	Liabilities £m	Total £m
<i>Current</i>						
Less than 1 year	34	(136)	(102)	428	(70)	358
	34	(136)	(102)	428	(70)	358
<i>Non-current</i>						
In 1 to 2 years	6	(29)	(23)	10	(14)	(4)
In 2 to 3 years	28	(39)	(11)	24	(12)	12
In 3 to 4 years	—	(26)	(26)	62	(80)	(18)
In 4 to 5 years	12	(16)	(4)	4	(42)	(38)
More than 5 years	218	(745)	(527)	414	(549)	(135)
	264	(855)	(591)	514	(697)	(183)
	298	(991)	(693)	942	(767)	175

The notional contract amounts of financing derivatives by type are as follows:

	2022 £m	2021 £m
Interest rate swaps	(1,607)	(2,259)
Cross-currency interest rate swaps	(10,397)	(8,389)
Foreign exchange forward contracts	(6,371)	(4,651)
Inflation-linked swaps	(500)	(500)
	(18,875)	(15,799)

London Inter-bank Offered Rate (LIBOR) is being replaced as an interest rate benchmark by alternative reference rates and therefore we are transitioning LIBOR cash flows on our affected contracts in line with the relevant jurisdictions. During the year we transitioned derivatives which pay or receive cash flows that reference GBP LIBOR (maturing between 2023 and 2040) to alternative reference rates (not transitioned in 2021: £2,041 million, maturing between 2023 and 2026). Derivatives with a notional value of £806 million that reference USD LIBOR (maturing between 2023 and 2026) are yet to be amended (2021: £769 million, maturing between 2023 and 2026).

(b) Commodity contract derivatives

The fair values of commodity contract derivatives by type are as follows:

	2022			2021		
	Assets £m	Liabilities £m	Total £m	Assets £m	Liabilities £m	Total £m
<i>Commodity purchase contracts accounted for as derivative contracts</i>						
Forward purchases of gas	11	(6)	5	44	(94)	(50)
<i>Derivative financial instruments linked to commodity prices</i>						
Electricity capacity	1	—	1	2	—	2
Electricity swaps	208	(10)	198	10	(33)	(23)
Electricity options	5	—	5	—	(1)	(1)
Gas swaps	29	(6)	23	1	(3)	(2)
Gas options	35	—	35	—	(1)	(1)
	289	(22)	267	57	(132)	(75)

17. Derivative financial instruments continued

(b) Commodity contract derivatives continued

The maturity profile of commodity contract derivatives is as follows:

	2022			2021		
	Assets £m	Liabilities £m	Total £m	Assets £m	Liabilities £m	Total £m
<i>Current</i>						
Less than one year	248	(8)	240	29	(75)	(46)
	248	(8)	240	29	(75)	(46)
<i>Non-current</i>						
In 1 to 2 years	34	(6)	28	7	(24)	(17)
In 2 to 3 years	5	(5)	—	7	(16)	(9)
In 3 to 4 years	2	(2)	—	7	(7)	—
In 4 to 5 years	—	(1)	(1)	6	(5)	1
More than 5 years	—	—	—	1	(5)	(4)
	41	(14)	27	28	(57)	(29)
	289	(22)	267	57	(132)	(75)

The notional quantities of commodity contract derivatives by type are as follows:

	2022	2021
Forward purchases of gas ¹	28m Dth	36m Dth
Electricity swaps	13,458 GWh	12,321 GWh
Gas swaps	39m Dth	47m Dth
Gas options	59m Dth	40m Dth

1. Forward gas purchases have terms up to one year (2021: five years). The contractual obligations under these contracts are £86 million (2021: £104 million).

18. Inventories and current intangible assets

Inventories represent assets that we intend to use in order to generate revenue in the short term, either by selling the asset itself (for example, fuel stocks) or by using it to fulfil a service to a customer or to maintain our network (consumables).

Inventories are stated at the lower of weighted average cost and net realisable value. Where applicable, cost comprises direct materials and direct labour costs as well as those overheads that have been incurred in bringing the inventories to their present location and condition.

Emission allowances, principally relating to the emissions of carbon dioxide in the UK and sulphur and nitrous oxides in the US, are recorded as intangible assets within current assets. They are initially recorded at cost and subsequently at the lower of cost and net realisable value. A liability is recorded in respect of the obligation to deliver emission allowances, and emission charges are recognised in the income statement in the period in which emissions are made.

	2022 £m	2021 £m
Fuel stocks	96	94
Raw materials and consumables	297	253
Current intangible assets – emission allowances	118	92
	511	439

There is a provision for obsolescence of £7 million against inventories as at 31 March 2022 (2021: £10 million).

Notes to the consolidated financial statements continued

19. Trade and other receivables

Trade and other receivables include amounts which are due from our customers for services we have provided, accrued income which has not yet been billed, prepayments, contract assets where certain milestones are required to be fulfilled and other receivables that are expected to be settled within 12 months.

Trade and other receivables are initially recognised at fair value and subsequently measured at amortised cost, less any appropriate allowances for estimated irrecoverable amounts.

	2022 £m	2021 £m
Trade receivables	2,661	2,152
Accrued income	1,110	886
Provision for impairment of receivables and accrued income	(741)	(672)
Trade receivables and accrued income, net	3,030	2,366
Prepayments	429	387
Contract assets	33	13
Other receivables	223	153
	3,715	2,919

Trade receivables are non-interest-bearing and generally have an up to 60 days term. Due to their short maturities, the fair value of trade and other receivables approximates their carrying value. The maximum exposure of trade and other receivables to credit risk is the carrying amount reported on the balance sheet.

Provision for impairment of receivables

A provision for credit losses is recognised at an amount equal to the expected credit losses that will arise over the lifetime of the trade receivables and accrued income.

	2022 £m	2021 £m
At 1 April	672	512
Exchange adjustments	31	(57)
Charge for the year, net of recoveries	167	326
Uncollectible amounts written off	(124)	(59)
Reclassification to held for sale (note 10)	(5)	(50)
At 31 March	741	672

The trade receivables balance, accrued income balance and provisions balance split by geography are as follows:

	As at 31 March 2022			As at 31 March 2021		
	UK £m	US £m	Total £m	UK £m	US £m	Total £m
Trade receivables	352	2,309	2,661	227	1,925	2,152
Accrued income	715	395	1,110	547	339	886
Provision for impairment of receivables and accrued income	(43)	(698)	(741)	(23)	(649)	(672)
	1,024	2,006	3,030	751	1,615	2,366

There are no retail customers in the UK businesses. A provision matrix is not used in the UK as an assessment of expected losses on individual debtors is performed, and the provision is not material.

In the US, £2,243 million (2021: £1,852 million) of the trade receivables and accrued income balance is attributable to retail customers. For non-retail US customer receivables, a provision matrix is not used and expected losses are determined on individual debtors.

The provision for retail customer receivables in the US is calculated based on a series of provision matrices which are prepared by regulated entity and by customer type. The expected loss rates in each provision matrix are based on historical loss rates adjusted for current and forecasted economic conditions at the balance sheet date. The inclusion of forward-looking information in the provision matrix setting process under IFRS 9 results in loss rates that reflect expected future economic conditions and the recognition of an expected loss on all debtors even where no loss event has occurred.

In March 2020, the Group's US distribution businesses ceased certain customer cash collection activities in response to regulatory instructions and to changes in State, Federal and City level regulations and guidance, and actions to minimise risk to the Group's employees as a result of COVID-19. At that time, the Group also ceased customer termination activities as requested by relevant local authorities. Collection and customer termination activities resumed in New England during the year ended 31 March 2022, where permitted. Whilst certain collection activities also resumed in New York in the year, we expect to resume full collection activities over the course of the next year. Collection activities have also been supported by certain government COVID funding programmes in both New England and New York.

In calculating our provision for impairment of receivables at 31 March 2022, we were able to incorporate the actual cash collection levels experienced for the two years since the start of the pandemic to determine the expected loss rates per category of outstanding receivable by operating company, which is summarised in the provision matrix shown below. Factored into our analysis are expected cash collections based on the resumed collection activities in New England and New York during the year.

19. Trade and other receivables continued

Based on our review, we recognised a charge of £139 million which represents our best estimate based on the information available. For the year ended 31 March 2021, we recognised a charge of £325 million due to the ongoing reduction of customer terminations and collections which were ceased in the preceding year and not fully recovered as at 31 March 2022. We based our review of certain macroeconomic factors at the time, including unemployment levels and our experience regarding debtor recoverability during and in the aftermath of the 2008/09 financial crisis.

The average expected loss rates and gross balances for the retail customer receivables in our US operations are set out below:

	2022		2021	
	%	£m	%	£m
Accrued income	5	382	7	322
0 – 30 days past due	5	731	7	580
30 – 60 days past due	20	213	24	155
60 – 90 days past due	32	123	36	108
3 – 6 months past due	41	161	52	140
6 – 12 months past due	56	177	66	180
Over 12 months past due	71	456	71	367
		2,243		1,852

US retail customer receivables are not collateralised. Trade receivables are written off when regulatory requirements are met. Write-off policies vary between jurisdictions as they are aligned with the local regulatory requirements, which differ between regulators. There were no significant amounts written off during the period that were still subject to enforcement action. Our internal definition of default is aligned with that of the individual regulators in each jurisdiction.

For further information on our wholesale and retail credit risk, refer to note 32(a).

20. Cash and cash equivalents

Cash and cash equivalents include cash balances, together with short-term investments with an original maturity of less than three months that are readily convertible to cash.

Net cash and cash equivalents reflected in the cash flow statement are net of bank overdrafts, which are reported in borrowings. The carrying amounts of cash and cash equivalents and bank overdrafts approximate their fair values.

Cash at bank earns interest at floating rates based on daily bank deposit rates. Short-term deposits are made for periods varying between one day and three months, depending on the immediate cash requirements, and earn interest at the respective short-term deposit rates.

Cash and cash equivalents held in currencies other than sterling have been converted into sterling at year-end exchange rates. For further information on currency exposures, refer to note 32(c).

Cash and cash equivalents at 31 March 2022 include £14 million (2021: £12 million) that is restricted. The restricted cash balances include amounts required to be maintained for insurance purposes and cash balances that can only be used for low-carbon network fund projects.

	2022	2021
	£m	£m
Cash at bank	204	117
Short-term deposits	–	40
Cash and cash equivalents	204	157

Notes to the consolidated financial statements continued

21. Borrowings

We borrow money primarily in the form of bonds and bank loans. These are for a fixed term and may have fixed or floating interest rates or are linked to inflation indices. We use derivatives to manage risks associated with interest rates, inflation rates and foreign exchange. Lease liabilities are also included within borrowings.

Our price controls and rate plans lead us to fund our networks within a certain ratio of debt to equity or regulatory asset value and, as a result, we have issued a significant amount of debt. As we continue to invest in our networks, the value of debt is expected to increase over time. To maintain a strong balance sheet and to allow us to access capital markets at commercially acceptable interest rates, we balance the amount of debt we issue with the value of our assets, and we take account of certain other metrics used by credit rating agencies.

All borrowings are measured at amortised cost, with the exception of one current liability which was measured at fair value through profit and loss in order to eliminate a measurement mismatch. This current liability has now matured.

Borrowings, which include interest-bearing, zero-coupon and inflation-linked debt, overdrafts and collateral payable, are initially recorded at fair value. This normally reflects the proceeds received (net of direct issue costs for liabilities measured at amortised cost). Subsequently, borrowings are stated either: i) at amortised cost; or ii) at fair value through profit and loss. Where a borrowing is held at amortised cost, any difference between the proceeds after direct issue costs and the redemption value is recognised over the term of the borrowing in the income statement using the effective interest method. For the liability held at fair value through profit and loss, interest is calculated using the effective interest method.

Where a borrowing or liability is held at fair value, changes in the fair value of the borrowing due to changes in the issuer's credit risk are recorded in the own credit reserve within equity (see note 28). All other changes in the fair value of the liability are recognised in the income statement within remeasurements (see notes 5 and 6).

	2022 £m	2021 £m
<i>Current</i>		
Bank loans ¹	8,976	1,022
Bonds ²	1,735	1,987
Commercial paper	1,303	628
Lease liabilities	107	99
Other loans	—	1
	12,121	3,737
<i>Non-current</i>		
Bank loans	2,211	2,532
Bonds	30,682	24,209
Lease liabilities	451	586
Other loans	—	156
	33,344	27,483
Total borrowings	45,465	31,220

1. Current bank loans include £8,179 million of borrowings under the bridge facility relating to the acquisition of WPD (31 March 2021: undrawn). The bridge facility allows for the extension of the maturity date up to September 2023 but includes a requirement that the proceeds of the planned sales of NECO and the UK Gas Transmission business are applied to repay the facility. As these are expected to be completed within one year the position has been classified as current.

2. Includes a liability held at fair value through profit and loss of £nil (2021: £682 million).

21. Borrowings continued

Total borrowings are repayable as follows:

	2022 £m	2021 £m
Less than 1 year	12,121	3,737
In 1 to 2 years	1,410	1,745
In 2 to 3 years	2,544	889
In 3 to 4 years	2,580	2,206
In 4 to 5 years	2,493	1,833
More than 5 years:		
By instalments	869	927
Other than by instalments	23,448	19,883
	45,465	31,220

The fair value of borrowings at 31 March 2022 was £45,624 million (2021: £34,676 million). Where market values were available, the fair value of borrowings (Level 1) was £24,454 million (2021: £20,333 million). Where market values were not available, the fair value of borrowings (Level 2) was £21,170 million (2021: £14,343 million), and calculated by discounting cash flows at prevailing interest rates. The notional amount outstanding of the debt portfolio at 31 March 2022 was £44,055 million (2021: £31,010 million). There have been no new issuances since the year end.

Collateral is placed with or received from any derivative counterparty where we have entered into a credit support annex to the ISDA Master Agreement once the current mark-to-market valuation of the trades between the parties exceeds an agreed threshold. Included in current bank loans is £60 million (2021: £582 million) in respect of cash received under collateral agreements. For further details of our borrowing facilities, refer to note 33. For further details of our bonds in issue, please refer to the debt investor section of our website. Unless included herein, the information on our website is unaudited.

Certain borrowings, primarily some of our USD denominated bank loans and company car lease contracts, have payments that are linked to LIBOR. LIBOR is being replaced as an interest rate benchmark by alternative reference rates and therefore we are transitioning LIBOR cash flows on our affected contracts in line with the relevant jurisdictions. The migration project is underway, with all affected contracts where we previously paid or received GBP LIBOR amended in the year to 31 March 2022. £314 million (2021: £328 million) of bank loans affected by GBP LIBOR have been transitioned to alternative reference rates. £181 million (2021: £173 million) of lease liabilities affected by USD LIBOR have been transitioned to alternative rates and £110 million (2021: £59 million) of bank loans affected by USD LIBOR have yet to be amended.

Financial liability at fair value through profit and loss

The financial liability was designated at fair value through profit and loss. Up until the date of maturity in November 2021, the liability was analysed as follows:

- i. the fair value of the liability at maturity in November 2021 was £699 million (2021: £682 million), which included cumulative changes in fair value attributable to changes in credit risk recognised in other comprehensive income, post tax of £nil (2021: £1 million);
- ii. the amount repayable at maturity in November 2021 was £699 million (2021: £684 million); and
- iii. the difference between carrying amount and contractual amount at maturity was £nil (2021: £2 million).

This liability was reclassified in order to eliminate a measurement mismatch with derivatives which provide an economic hedge. The associated derivatives were collateralised and did not contain significant exposure to our own credit risk. The presentation of credit risk in other comprehensive income did not, therefore, create or enlarge an accounting mismatch in profit or loss.

The change in the fair value attributable to a change in credit risk was calculated as the difference between the total change in the fair value of the liability and the change in the value of the liability due to changes in market risk factors alone. The change in the fair value due to market risk factors was calculated using benchmark yield curves as at the end of the reporting period holding the credit risk margin constant. The fair value of the liability was calculated using observed market prices.

Notes to the consolidated financial statements continued

21. Borrowings continued

Lease liabilities

Lease liabilities are initially measured at the present value of the lease payments expected over the lease term. The discount rate applied is the rate implicit in the lease or if that is not available, then the incremental rate of borrowing for a similar term and similar security. The lease term takes account of exercising any extension options that are at our option if we are reasonably certain to exercise the option and any lease termination options unless we are reasonably certain not to exercise the option. Each lease payment is allocated between the liability and finance cost. The finance cost is charged to the income statement over the lease period using the effective interest rate method.

	2022 £m	2021 £m
Gross lease liabilities are repayable as follows:		
Less than 1 year	132	114
1 to 5 years	282	321
More than 5 years	259	464
	673	899
Less: finance charges allocated to future periods	(115)	(214)
	558	685
The present value of lease liabilities are as follows:		
Less than 1 year	107	99
1 to 5 years	247	267
More than 5 years	204	319
	558	685

22. Trade and other payables

Trade and other payables include amounts owed to suppliers, tax authorities and other parties which are due to be settled within 12 months. The total also includes deferred amounts, some of which represent monies received from customers but for which we have not yet delivered the associated service. These amounts are recognised as revenue when the service is provided.

Trade and other payables are initially recognised at fair value and subsequently measured at amortised cost, with the exception of contingent consideration, which is subsequently measured at fair value.

	2022 £m	2021 £m
Trade payables	3,113	2,165
Deferred payables	487	154
Customer contributions ¹	137	138
Social security and other taxes	278	140
Contingent consideration	34	39
Other payables	866	881
	4,915	3,517

1. Relates to amounts received from government-related entities for connecting to our networks, where we have obligations remaining under the contract.

Due to their short maturities, the fair value of trade payables approximates their carrying value.

23. Contract liabilities

Contract liabilities primarily relate to the advance consideration received from customers for construction contracts, mainly in relation to connections, for which revenue is recognised over the life of the asset.

	2022 £m	2021 £m
Current	130	66
Non-current	1,342	1,094
	1,472	1,160

Significant changes in the contract liabilities balances during the period are as follows:

	2022 £m	2021 £m
As at 1 April	1,160	1,158
Exchange adjustments	29	(65)
Revenue recognised that was included in the contract liability balance at the beginning of the period	(53)	(96)
Increases due to cash received, excluding amounts recognised as revenue during the period	510	262
Reclassification to held for sale (note 10)	(174)	(99)
At 31 March	1,472	1,160

24. Other non-current liabilities

Other non-current liabilities include deferred income and customer contributions which will not be recognised as income until after 31 March 2023. It also includes contingent consideration and other payables that are not due until after that date.

Other non-current liabilities are initially recognised at fair value and subsequently measured at amortised cost, with the exception of contingent consideration, which is subsequently measured at fair value.

	2022 £m	2021 £m
Deferred income ¹	41	78
Customer contributions ²	421	400
Contingent consideration	7	18
Other payables	336	347
	805	843

1. In the year ended 31 March 2021, principally the deferral of profits relating to the sale of property to St William Homes LLP, which were expected to be recognised in future years. In the year ended 31 March 2022, the Group disposed of its interests in St William Homes LLP, resulting in a release of previously deferred profits (see note 16).
2. Relates to amounts received from government-related entities for connecting to our networks, where we have obligations remaining under the contract.

There is no material difference between the fair value and the carrying value of other payables.

25. Pensions and other post-retirement benefits

All of our employees are eligible to participate in a pension plan. We have defined contribution (DC) and defined benefit (DB) pension plans in the UK and the US. In the US we also provide healthcare and life insurance benefits to eligible employees, post-retirement. The fair value of associated plan assets and present value of DB obligations are updated annually in accordance with IAS 19 'Employee Benefits'. We separately present our UK and US pension plans to show the geographical split. Below we provide a more detailed analysis of the amounts recorded in the primary financial statements and the actuarial assumptions used to value the DB obligations.

UK pension plans

Defined contribution plan

Employees of National Grid's legacy UK businesses are eligible to join the National Grid UK Retirement Plan (NGUKRP), a section of a Master Trust arrangement managed by Legal & General. National Grid pays contributions into the NGUKRP to provide DC benefits on behalf of its employees, generally providing a double match of member contributions up to a maximum Company contribution of 12% of salary. Additionally, WPD operates a DC pension plan (WPPS) which includes three separate DC sections. Two of the DC sections are closed with no active members at 31 March 2022. There is also an open section, available to all new WPD employees.

These plans are defined contribution in nature and are designed to provide members with a pension pot for their retirement. As such, investment risks are borne by the member and there is no legal or constructive obligation on National Grid to pay additional contributions in the instance that investment performance is poor. Payments to these DC plans are charged as an expense as they fall due.

Defined benefit plans

National Grid operates various DB pension plans in the UK. These include two legally separate sections of the National Grid UK Pension Scheme (Section A and Section B of NGUKPS), three sections of the industry-wide Electricity Supply Pension Scheme (ESPS) and a legacy scheme (WPUPS). During the year, following National Grid's announcement of its intention to sell its Gas Transmission and Metering businesses, Section B of NGUKPS was reallocated as held for sale. Each of these plans holds its assets in separate Trustee administered funds. The arrangements are managed by Trustee companies with boards consisting of company- and member-appointed directors. These plans are all closed to new members except for the ESPS schemes in very rare circumstances.

The arrangements are subject to independent actuarial funding valuations every three years, and following consultation and agreement with the Company, the qualified actuary certifies the employers' contributions, which, together with the specified contributions payable by the employees and proceeds from the plans' assets, are expected to be sufficient to fund the benefits payable. The latest full actuarial valuations for each of the DB plans were carried out at 31 March 2019, with the Company agreeing to fund the assessed funding shortfalls for the UK DB plans that were in deficit via recovery plan payments scheduled to finish in November 2024 or earlier, with payments of approximately £130 million across all plans still due to be paid. Separately, National Grid continues to fund the cost of future benefit accrual (over and above member contributions) for each of the DB schemes. In the year to March 2022, the aggregate level of ongoing contributions (excluding recovery plan payments) was £83 million (2021: £50 million; 2020: £70 million). National Grid also pays contributions in respect of the costs of plan administration and the Pension Protection Fund (PPF) levies for most of its DB plans.

In addition, for some plans the Company has also agreed to establish security arrangements with charges in favour of the Trustee. The value of security provided across National Grid's DB plans was £286 million at 31 March 2022, all of which is currently provided in the form of surety bonds but may also be provided as letters of credit or cash. The assets held as security will be paid to the respective section or plan in the event that the relevant supporting employer is subject to an insolvency event or fails to make the required contributions; and applicable to NGEG of ESPS only, if NGET loses its licence to operate under relevant legislation. Counter indemnities have also been taken out to ensure the obligations will be fulfilled. In addition, further cash payments of up to a maximum of £675 million could also become due if certain trigger events occur which have been individually agreed between the plans and their relevant supporting employers.

A guarantee has also been provided to Section A of NGUKPS, with the payment contingent on insolvency or on failure to pay pension obligations to Section A and can be claimed against National Grid plc, National Grid Holdings One plc or Lattice Group Limited.

US pension plans

The US pension plans are governed by a fiduciary committee called the Retirement Plan Committee (RPC). The RPC is structured in accordance with US laws governing retirement plans under the Employee Retirement Income Security Act and comprises appointed employees of the Company.

Defined contribution plans

National Grid has a DC pension plan which allows employee as well as Company contributions. Non-union employees hired after 1 January 2011, as well as most new hire represented union employees, receive a core contribution into the DC plan ranging from 3% to 9% of salary, irrespective of the employee's contribution into the plan. Most employees also receive a matching contribution that varies between 25% and 50% of employee contributions up to a maximum of 8% to 10%. The assets of the plans are held in trusts and administered by the RPC.

Defined benefit plans

National Grid sponsors four non-contributory qualified DB pension plans, which provide vested union employees, and vested non-union employees hired before 1 January 2011, with retirement benefits within prescribed limits as defined by the US Internal Revenue Service. National Grid also provides non-qualified DB pension arrangements for a section of current and former employees, which are closed to new entrants. Benefits under the DB plans generally reflect age, years of service and compensation, and are paid in the form of an annuity or lump sum. An independent actuary performs valuations annually. The Company funds the DB plans by contributing no less than the minimum amount required, but no more than the maximum tax-deductible amount allowed under US Internal Revenue Service regulations. The range of contributions determined under these regulations can vary significantly depending upon the funded status of the plans. At present, there is some flexibility in the amount that is contributed on an annual basis. In general, the Company's policy for funding the US pension plans is to contribute the amounts collected in rates and capitalised in the rate base during the year, to the extent that the funding is no less than the minimum amount required. For the current financial year, these contributions amounted to approximately £116 million (2021: £110 million).

25. Pensions and other post-retirement benefits continued

US other post-retirement benefits

National Grid provides healthcare and life insurance benefits to eligible employees, post-retirement. Eligibility is based on certain age and length of service requirements and, in most cases, retirees contribute to the cost of their healthcare coverage. In the US, there is no governmental requirement to pre-fund post-retirement healthcare and life insurance plans. However, in general, the Company's policy for funding the US retiree healthcare and life insurance plans is to contribute amounts collected in rates and capitalised in the rate base during the year. For the current financial year, these contributions amounted to £17 million (2021: £26 million).

For the last few years it has been the Company's policy to primarily direct contributions to the DB pension plans due to concerns over tax deductible limitations relating to the retiree and healthcare and life insurance plans.

Actuarial assumptions

On retirement, members of DB plans receive benefits whose value is dependent on factors such as salary and length of pensionable service. National Grid's obligation in respect of DB pension plans is calculated separately for each DB plan by projecting the estimated amount of future benefit payments that employees have earned for their pensionable service in the current and prior periods. These future benefit payments are discounted to determine the present value of the liabilities. Current service cost and any unrecognised past service cost are recognised immediately.

Advice is taken from independent actuaries relating to the appropriateness of the key assumptions applied, including life expectancy, expected salary and pension increases, and inflation. Comparatively small changes in the assumptions used may have a significant effect on the amounts recognised in the consolidated income statement, the consolidated statement of other comprehensive income and the net liability recognised in the consolidated statement of financial position. Remeasurements of pension assets and post-retirement benefit obligations are recognised in full in the period in which they occur in the consolidated statement of other comprehensive income.

The Company has applied the following financial assumptions in assessing DB liabilities:

	UK pensions			US pensions			US other post-retirement benefits		
	2022 %	2021 %	2020 %	2022 %	2021 %	2020 %	2022 %	2021 %	2020 %
Discount rate – past service	2.78	2.00	2.35	3.65	3.25	3.30	3.65	3.25	3.30
Discount rate – future service	2.85	2.15	2.35	3.65	3.25	3.30	3.65	3.25	3.30
Rate of increase in RPI – past service	3.60	3.15	2.65	n/a	n/a	n/a	n/a	n/a	n/a
Rate of increase in RPI – future service	3.33	3.00	2.45	n/a	n/a	n/a	n/a	n/a	n/a
Salary increases	3.47	3.40	2.90	4.60	4.30	3.50	4.60	4.30	3.50
Initial healthcare cost trend rate	n/a	n/a	n/a	n/a	n/a	n/a	6.80	7.10	7.00
Ultimate healthcare cost trend rate	n/a	n/a	n/a	n/a	n/a	n/a	4.50	4.50	4.50

For UK pensions, single equivalent financial assumptions are shown above for presentational purposes, although full yield curves have been used in our calculations. The discount rate is determined by reference to high-quality UK corporate bonds at the reporting date. The rate of increase in salaries has been set using a promotional scale where appropriate. The rates of increases stated are not indicative of historical increases awarded or a guarantee of future increase, but merely an appropriate assumption used in assessing DB liabilities. Retail Price Index (RPI) is the key assumption that determines assumed increases in pensions in payment and deferment in the UK only.

Discount rates for US pension liabilities have been determined by reference to appropriate yields on high-quality US corporate bonds at the reporting date based on the duration of plan liabilities. The healthcare cost trend rate is expected to reach the ultimate trend rate by 2031 (2021: 2030).

The table below sets out the projected life expectancies adopted for the UK and US pension arrangements:

	UK pensions			US pensions		
	2022 years	2021 years	2020 years	2022 years	2021 years	2020 years
<i>Assumed life expectations for a retiree age 65</i>						
Males	22.0	21.8	22.1	21.4	21.6	20.9
Females	23.8	23.7	23.8	23.6	24.0	23.4
In 20 years:						
Males	23.2	23.1	23.3	23.1	23.2	22.5
Females	25.2	25.2	25.3	25.3	25.5	25.1

The weighted average duration of the DB obligation for each category of plan is 14 years for UK pension plans; 13 years for US pension plans and 15 years for US other post-retirement benefit plans. The table below summarises the split of DB obligations by status for each category of plan, with comparative figures for 2021.

	UK pensions		US pensions		US other post-retirement benefits	
	2022 %	2021 %	2022 %	2021 %	2022 %	2021 %
Active members	16	8	36	35	34	34
Deferred members	10	14	9	9	—	—
Pensioner members	74	78	55	56	66	66

For sensitivity analysis see note 35.

Notes to the consolidated financial statements continued

25. Pensions and other post-retirement benefits continued

Amounts recognised in the consolidated statement of financial position

	2022 £m	2021 £m
Present value of funded obligations	(23,541)	(23,283)
Fair value of plan assets	27,013	24,388
	3,472	1,105
Present value of unfunded obligations	(326)	(324)
Other post-employment liabilities	(71)	(66)
Net defined benefit asset/(liability)	3,075	715
Represented by:		
Liabilities	(810)	(1,032)
Assets	3,885	1,747
	3,075	715

The geographical split of pensions and other post-retirement benefits is as shown below:

	UK pensions		US pensions		US other post-retirement benefits		Total	
	2022 £m	2021 £m	2022 £m	2021 £m	2022 £m	2021 £m	2022 £m	2021 £m
Present value of funded obligations	(14,197)	(13,571)	(6,531)	(6,681)	(2,813)	(3,031)	(23,541)	(23,283)
Fair value of plan assets	16,865	14,680	7,263	6,909	2,885	2,799	27,013	24,388
	2,668	1,109	732	228	72	(232)	3,472	1,105
Present value of unfunded obligations	(78)	(74)	(248)	(250)	—	—	(326)	(324)
Other post-employment liabilities	—	—	—	—	(71)	(66)	(71)	(66)
Net defined benefit asset/(liability)	2,590	1,035	484	(22)	1	(298)	3,075	715
Represented by:								
Liabilities	(78)	(74)	(248)	(393)	(484)	(565)	(810)	(1,032)
Assets	2,668	1,109	732	371	485	267	3,885	1,747
	2,590	1,035	484	(22)	1	(298)	3,075	715

The recognition of the pension assets in the UK and in the US reflects legal and actuarial advice that we have taken regarding recognition of surpluses under IFRIC 14. In the UK, the Group has an unconditional right to a refund in the event of a winding up. In the US, surplus assets of a Plan may be used to pay for future benefits expected to be earned under that Plan.

25. Pensions and other post-retirement benefits continued

Amounts recognised in the income statement and statement of other comprehensive income

The expense or income arising from all Group retirement benefit arrangements recognised in the Group income statements is shown below:

	2022 £m	2021 £m	2020 £m
<i>Included within operating costs</i>			
Administration costs	20	18	16
<i>Included within payroll costs</i>			
Defined benefit plan costs:			
Current service cost	223	175	178
Past service cost – augmentations	1	–	–
Past service cost/(credit) – redundancies	1	(1)	–
Special termination benefit cost – redundancies	9	5	2
	234	179	180
<i>Included within finance income and costs</i>			
Net interest (income)/cost	(2)	38	23
Total included in income statement¹	252	235	219
Remeasurement gains/(losses) of pension assets and post-retirement benefit obligations ²	2,481	1,408	(724)
Exchange adjustments	7	186	(97)
Total included in the statement of other comprehensive income³	2,488	1,594	(821)

1. Amounts shown in the table above include operating costs of £4 million (2021: £3 million; 2020: £4 million); payroll costs of £10 million (2021: £10 million; 2020: £10 million); and net interest income of £2 million (2021: £13 million; 2020: £11 million) presented within profit from discontinued operations. These amounts all relate to UK pensions.

2. For the year ended 31 March 2021, this included actuarial losses from the purchase of buy-in policies of £0.1 billion.

3. Amounts shown in the table above include remeasurements of pension assets and post-retirement benefit obligations resulting in a gain of £309 million (2021: £250 million loss; 2020: £58 million gain) presented within discontinued operations. These amounts all relate to UK pensions.

The geographical split of pensions and other post-retirement benefits is shown below:

	UK pensions			US pensions			US other post-retirement benefits		
	2022 £m	2021 £m	2020 £m	2022 £m	2021 £m	2020 £m	2022 £m	2021 £m	2020 £m
<i>Included within operating costs</i>									
Administration costs	11	9	9	7	7	6	2	2	1
<i>Included within payroll costs</i>									
Defined benefit plan costs:									
Current service cost	83	28	33	101	104	100	39	43	45
Past service cost – augmentations	1	–	–	–	–	–	–	–	–
Past service cost/(credit) – redundancies	1	(1)	–	–	–	–	–	–	–
Special termination benefit cost – redundancies	9	5	2	–	–	–	–	–	–
	94	32	35	101	104	100	39	43	45
<i>Included within finance income and costs</i>									
Net interest (income)/cost	(7)	(38)	(31)	–	35	21	5	41	33
Total included in income statement	98	3	13	108	146	127	46	86	79
Remeasurement gains/(losses) of pension assets and post-retirement benefit obligations ¹	1,577	(622)	143	532	1,017	(588)	372	1,013	(279)
Exchange adjustments	–	–	–	11	83	(42)	(4)	103	(55)
Total included in the statement of other comprehensive income	1,577	(622)	143	543	1,100	(630)	368	1,116	(334)

1. For the year ended 31 March 2021, UK pensions is stated after actuarial losses from the purchase of buy-in policies of £0.1 billion.

Notes to the consolidated financial statements continued

25. Pensions and other post-retirement benefits continued

Reconciliation of the net defined benefit asset/(liability)

	UK pensions		US pensions		US other post-retirement benefits		Total	
	2022 £m	2021 £m	2022 £m	2021 £m	2022 £m	2021 £m	2022 £m	2021 £m
Opening net defined benefit asset/(liability)	1,035	1,520	(22)	(1,113)	(298)	(1,360)	715	(953)
Cost recognised in the income statement (including discontinued operations)	(98)	(3)	(108)	(146)	(46)	(86)	(252)	(235)
Remeasurement and foreign exchange effects recognised in the statement of other comprehensive income	1,577	(622)	543	1,100	368	1,116	2,488	1,594
Employer contributions	167	138	116	110	17	26	300	274
Other movements	7	2	—	—	(29)	(16)	(22)	(14)
Acquisition of WPD (note 37)	566	—	—	—	—	—	566	—
Reclassification to held for sale (note 10)	(664)	—	(45)	27	(11)	22	(720)	49
Closing net defined benefit asset/(liability)	2,590	1,035	484	(22)	1	(298)	3,075	715

Changes in the present value of defined benefit obligations (including unfunded obligations)

The table below shows the movement in defined benefit obligations across our DB plans over the year.

	UK pensions		US pensions		US other post-retirement benefits		Total	
	2022 £m	2021 £m	2022 £m	2021 £m	2022 £m	2021 £m	2022 £m	2021 £m
Opening defined benefit obligations	(13,645)	(12,844)	(6,931)	(8,085)	(3,031)	(3,697)	(23,607)	(24,626)
Current service cost	(83)	(28)	(101)	(104)	(39)	(43)	(223)	(175)
Interest cost	(88)	(296)	(240)	(243)	(100)	(112)	(428)	(651)
Actuarial (losses)/gains – experience	(627)	(21)	(24)	(72)	107	216	(544)	123
Actuarial gains/(losses) – demographic assumptions	133	(1)	100	—	71	—	304	(1)
Actuarial gains/(losses) – financial assumptions	1,387	(1,181)	329	(62)	192	(25)	1,908	(1,268)
Past service (cost)/credit – redundancies	(1)	1	—	—	—	—	(1)	1
Special termination benefit cost – redundancies	(9)	(5)	—	—	—	—	(9)	(5)
Past service cost – augmentations	(1)	—	—	—	—	—	(1)	—
Medicare subsidy received	—	—	—	—	(24)	(25)	(24)	(25)
Employee contributions	(8)	(1)	—	—	—	—	(8)	(1)
Benefits paid	919	731	403	371	159	144	1,481	1,246
Exchange adjustments	—	—	(327)	804	(140)	362	(467)	1,166
Acquisition of WPD	(7,096)	—	—	—	—	—	(7,096)	—
Reclassification to held for sale	4,844	—	12	460	(8)	149	4,848	609
Closing defined benefit obligations	(14,275)	(13,645)	(6,779)	(6,931)	(2,813)	(3,031)	(23,867)	(23,607)

25. Pensions and other post-retirement benefits continued

Changes in the value of plan assets

The table below shows the movement in pension assets across our DB plans over the year.

	UK pensions		US pensions		US other post-retirement benefits		Total	
	2022 £m	2021 £m	2022 £m	2021 £m	2022 £m	2021 £m	2022 £m	2021 £m
Opening fair value of plan assets	14,680	14,364	6,909	6,972	2,799	2,412	24,388	23,748
Interest income	95	334	240	208	95	71	430	613
Return on plan assets in excess of interest ¹	684	581	127	1,151	2	822	813	2,554
Administration costs	(11)	(9)	(7)	(7)	(2)	(2)	(20)	(18)
Employer contributions	167	138	116	110	17	26	300	274
Employee contributions	8	1	—	—	—	—	8	1
Benefits paid	(912)	(729)	(403)	(371)	(159)	(144)	(1,474)	(1,244)
Exchange adjustments	—	—	338	(721)	136	(259)	474	(980)
Acquisition of WPD	7,662	—	—	—	—	—	7,662	—
Reclassification to held for sale	(5,508)	—	(57)	(433)	(3)	(127)	(5,568)	(560)
Closing fair value of plan assets	16,865	14,680	7,263	6,909	2,885	2,799	27,013	24,388
Actual return on plan assets	779	915	367	1,359	97	893	1,243	3,167
Expected contributions to plans in the following year	146	93	74	113	14	6	234	212

1. For the year ended 31 March 2021, this included actuarial losses from the purchase of buy-in policies of £0.1 billion.

Asset allocations

The allocation of assets by asset class is set out below. Within these asset allocations there is significant diversification across regions, asset managers, currencies and bond categories.

UK pensions

	2022			2021			2020		
	Quoted £m	Unquoted £m	Total £m	Quoted £m	Unquoted £m	Total £m	Quoted £m	Unquoted £m	Total £m
Equities	1,458	474	1,932	555	801	1,356	732	732	1,464
Corporate bonds	2,741	—	2,741	3,730	37	3,767	3,837	—	3,837
Government securities	786	—	786	1,836	—	1,836	2,051	—	2,051
Property	122	1,002	1,124	104	565	669	103	585	688
Diversified alternatives	1,334	432	1,766	—	712	712	—	893	893
Liability-matching assets	2,023 ¹	6,090 ²	8,113 ³	1,731 ¹	4,133 ²	5,864 ³	1,704 ¹	3,278 ²	4,982 ³
Longevity swap	—	(80)	(80)	—	(64)	(64)	—	(51)	(51)
Cash and cash equivalents	477	—	477	34	250	284	29	222	251
Other (including net current assets and liabilities)	16	(10)	6	—	256	256	—	249	249
	8,957	7,908	16,865⁴	7,990	6,690	14,680	8,456	5,908	14,364

1. Consists of pooled funds which invest mainly in fixed interest securities.

2. Includes buy-in policies held by NGUKPS with a total value of £2.7 billion (2021: £4.1 billion; 2020: £3.3 billion).

3. Included within liability-matching assets above is £6.6 billion (2021: £2.5 billion; 2020: £2.8 billion) of repurchase agreements. These are used to increase the market exposure of the liability-matching portfolios.

4. The fair value of plan assets for NGUKPS Section A includes £32 million (2021: £nil; 2020: £nil) of direct holdings in WPD debt instruments.

Notes to the consolidated financial statements continued

25. Pensions and other post-retirement benefits continued

US pensions

	2022			2021			2020		
	Quoted £m	Unquoted £m	Total £m	Quoted £m	Unquoted £m	Total £m	Quoted £m	Unquoted £m	Total £m
Equities	272	1,904	2,176	560	2,359	2,919	467	2,043	2,510
Corporate bonds	2,311	697	3,008	1,547	507	2,054	1,640	518	2,158
Government securities	335	715	1,050	354	527	881	535	732	1,267
Property	—	295	295	—	264	264	—	307	307
Diversified alternatives	142	364	506	167	458	625	162	464	626
Infrastructure	—	182	182	—	130	130	—	121	121
Cash and cash equivalents	31	—	31	24	—	24	24	—	24
Other (including net current assets and liabilities)	12	3	15	12	—	12	(44)	3	(41)
	3,103	4,160	7,263	2,664	4,245	6,909	2,784	4,188	6,972

US other post-retirement benefits

	2022			2021			2020		
	Quoted £m	Unquoted £m	Total £m	Quoted £m	Unquoted £m	Total £m	Quoted £m	Unquoted £m	Total £m
Equities	185	1,013	1,198	419	1,303	1,722	353	1,037	1,390
Corporate bonds	723	2	725	13	—	13	15	—	15
Government securities	511	2	513	533	3	536	551	1	552
Diversified alternatives	144	120	264	185	172	357	162	161	323
Other ¹	—	185	185	—	171	171	—	132	132
	1,563	1,322	2,885	1,150	1,649	2,799	1,081	1,331	2,412

1. Other primarily comprises insurance contracts.

Main defined benefit risks

National Grid underwrites the financial and demographic risks associated with our DB plans. Although the governing bodies have sole responsibility for setting investment strategies and managing risks, National Grid closely works with and supports the governing bodies of each plan, to assist them in mitigating the risks associated with their plans and to ensure that the plans are funded to meet their obligations.

The most significant risks associated with the DB plans are:

Main risks	Description and mitigation
Investment risk	The plans invest in a variety of asset classes, with actual returns likely to differ from the underlying discount rate adopted, impacting on the funding position of the plan through the net balance sheet asset or liability. Each plan seeks to balance the level of investment return required with the risk that it can afford to take, to design the most appropriate investment portfolio.
Changes in bond yields	Liabilities are calculated using discount rates set with reference to the yields in high-quality bonds prevailing in the UK and US debt markets and will fluctuate as yields change. Volatility of the net balance sheet asset or liability is controlled through liability-matching strategies. The investment strategies allow for the use of synthetic as well as physical assets to be used to hedge interest rate risk.
Inflation risk	Changes in inflation will affect the current and future pensions but are partially mitigated through investing in inflation-matching assets and hedging instruments as well as bulk annuity buy-in policies. The investment strategies allow for the use of synthetic as well as physical assets to be used to hedge inflation risk.
Member longevity	Longevity is a key driver of liabilities and changes in life expectancy have a direct impact on liabilities. Improvements in life expectancy will lead to pension payments being paid for longer than expected and benefits ultimately being more expensive. This risk has been partly mitigated by recent scheme investment transactions including a longevity insurance contract (longevity swap) for NGEF of ESPS and two buy-in policies for Section A of NGUKPS.
Counterparty risk	This is managed by having a diverse range of counterparties and through having a strong collateralisation process (including for the longevity swap held by NGEF of ESPS). Measurement and management of counterparty risk is delegated to the relevant investment managers. For our bulk annuity policies, various termination provisions were introduced in the contracts, managing our exposure to counterparty risk. The insurers' operational performance and financial strength are monitored on a regular basis.
Default risk	Investments are predominantly made in regulated markets in assets considered to be of investment grade. Where investments are made either in non-investment grade assets or outside of regulated markets, investment levels are kept to prudent levels and subject to agreed control ranges, to control the risk.
Liquidity risk	The pension plans hold sufficient cash to meet benefit requirements, with other investments being held in liquid or realisable assets to meet unexpected cash flow requirements. The plans do not borrow money, or act as guarantor, to provide liquidity to other parties (unless it is temporary).
Currency risk	Fluctuations in the value of foreign denominated assets due to exposure to currency exchange rates is managed through a combination of segregated currency hedging overlay and currency hedging carried out by some of the investment managers.

25. Pensions and other post-retirement benefits continued

DB plan investment strategies

The Trustees and RPC, after taking advice from professional investment advisors and in consultation with National Grid, set their key principles, including expected returns, risk and liquidity requirements. They formulate an investment strategy to manage risk through diversification, taking into account expected contributions, maturity of the pension liabilities, and in the UK, the strength of the covenant. These strategies allocate investments between return-seeking assets such as equities and property, and liability-matching assets such as buy-in policies, government securities and corporate bonds which are intended to protect the funding position.

The approximate investment allocations for our plans at 31 March 2022 are as follows:

	UK pensions %	US pensions %	US other post- retirement benefits %
Return-seeking assets	28	41	51
Liability-matching assets	72	59	49

The governing bodies can generally delegate responsibility for the selection of specific bonds, securities and other investments to appointed investment managers. Investment managers are selected based on the required skills, expertise in those markets, process and financial security to manage the investments. Their performance is regularly reviewed against measurable objectives, consistent with each pension plan's long-term objectives and accepted risk levels.

In the UK, each of our pension plans has Responsible Investment (RI) Policies, which take into account Environmental, Social and Governance (ESG) factors and generally incorporate the six UN-backed Principles for Responsible Investment (UNPRI). Each of the Trustee boards believes that ESG factors can be material to financial outcomes and should therefore be considered alongside other factors. They recognise that their primary responsibility remains a fiduciary one, i.e., their first duty is to ensure the best possible return on investments with the appropriate level of risk. However, they also recognise the increasing materiality of ESG factors and that they have a fiduciary and regulatory duty to consider RI, including ESG factors and their potential impact on the quality and sustainability of long-term investment returns. The principle defined contribution arrangement in the UK, the NGUKRP, is operated by Legal & General, which embeds ESG factors in the investment options offered to members. As well as offering a range of self-select ethical funds, it directly incorporates its Climate Impact Pledge into the default investment option, which acts to align the fund to a carbon net zero future.

Whilst in the US there is no regulatory requirement to have ESG-specific principles embedded in investment policies, our investment managers often utilise ESG principles to inform their decision-making process.

Notes to the consolidated financial statements continued

26. Provisions

Provisions are recognised when an obligation exists resulting from a past event, and it is probable that cash will be paid to settle it, but the exact amount of cash required can only be estimated. The majority of our provisions relate to environmental remediation, specifically in relation to certain Superfund sites in the US, being sites we own or have owned in the past where hazardous substances are present as a result of the historic operations of manufactured gas plants in Brooklyn, New York. We also recognise provisions for decommissioning costs for various assets we would be required to remove at the end of their lives; the costs associated with restructuring plans; the costs in respect of insured past events; for certain Ofgem arrangements in respect of specific interconnectors which require the return of excess revenues above a cap; and for lease contracts we have entered into that are now loss-making.

In determining the quantum of the provision we recognise, we make estimates in relation to management's best judgement of the evaluation of the likelihood and the probability of exposure to potential loss, and the costs that would be incurred. Should circumstances change following unforeseeable developments, the likelihood or quantum could alter.

Provisions are recognised where a legal or constructive obligation exists at the reporting date, as a result of a past event, where the amount of the obligation can be reliably estimated and where the outflow of economic benefit is probable.

The quantum of the provision recognised for decommissioning, environmental, restructuring and other costs is based on estimated future expenditure, discounted to present values. An initial estimate of decommissioning and environmental costs attributable to property, plant and equipment is recorded as part of the original cost of the related property, plant and equipment. Provisions to decommission significant portions of our regulated transmission and distribution assets are not recognised where no legal obligations exist, and a realistic alternative exists to incurring costs to decommission assets at the end of their life. In any case, even if a legal or constructive obligation did exist, it is not currently determinable when remediation work would take place and therefore no provision would be recorded at this point.

Changes in the provision arising from revised estimates, discount rates or changes in the expected timing of expenditure that relates to property, plant and equipment are recorded as adjustments to their carrying value and depreciated prospectively over their remaining estimated useful economic lives; otherwise such changes are recognised in the income statement.

The unwinding of the discount is included within the income statement within finance costs.

	Environmental £m	Decommissioning £m	Restructuring £m	Other £m	Total provisions £m
At 1 April 2020	2,071	254	35	294	2,654
Exchange adjustments	(185)	(9)	(1)	(21)	(216)
Additions	26	42	11	67	146
Unused amounts reversed	(38)	(27)	—	(16)	(81)
Unwinding of discount	66	7	—	5	78
Utilised	(161)	(16)	(19)	(62)	(258)
Reclassification to held for sale (note 10)	(79)	(7)	—	(10)	(96)
At 31 March 2021	1,700	244	26	257	2,227
Exchange adjustments	82	4	1	10	97
Additions	158	37	16	212	423
Acquisition of WPD (note 37)	—	37	—	29	66
Unused amounts reversed	(25)	(4)	(1)	(31)	(61)
Unwinding of discount	64	6	—	3	73
Utilised	(99)	(26)	(22)	(47)	(194)
Reclassification to held for sale (note 10)	(3)	(40)	(3)	(46)	(92)
At 31 March 2022	1,877	258	17	387	2,539

	2022 £m	2021 £m
Current	240	260
Non-current	2,299	1,967
	2,539	2,227

26. Provisions continued

Environmental provisions

The environmental provision represents the estimated restoration and remediation costs relating to a number of sites owned and managed by subsidiary undertakings, together with certain US sites that National Grid no longer owns. The environmental provision is as follows:

	2022			2021		
	Discounted £m	Real undiscounted £m	Real discount rate	Discounted £m	Real undiscounted £m	Real discount rate
UK sites	152	160	0.5%	167	171	0.5%
US sites	1,725	1,789	0.5%	1,533	1,583	0.5%
	1,877	1,949		1,700	1,754	

The remediation expenditure in the UK relates to old gas manufacturing sites and also to electricity transmission sites. Cash flows are expected to be incurred until 2069. A number of estimation uncertainties affect the calculation of the provision, including the impact of regulation, the accuracy of site surveys, unexpected contaminants, transportation costs, the impact of alternative technologies, the expected timing and duration of cash flows, and changes in the real discount rate. This provision incorporates our best estimate of the financial effect of these uncertainties, but future changes in any of the assumptions could materially impact the calculation of the provision. The undiscounted amount is the undiscounted best estimate of the liability having regard to these uncertainties.

The remediation expenditure in the US is expected to be incurred until 2069, of which the majority relates to three Superfund sites (being sites where hazardous substances are present as a result of the historic operations of manufactured gas plants in Brooklyn, New York). The weighted average duration of the cash flows is 11 years. The uncertainties regarding the calculation of this provision are similar to those considered in respect of UK sites. Under the terms of our rate plans, we are entitled to recovery of environmental clean-up costs from rate payers.

Decommissioning provisions

The decommissioning provisions include £258 million (2021: £244 million) of expenditure relating to asset retirement obligations estimated to be incurred until 2104.

Restructuring provisions

In 2022, we continued to undertake design and implementation activities in respect of our new operating model and cost efficiency programme, which resulted in the recognition of an increased provision of £16 million in the year (2021: £11 million). The income statement expense relating to the provision has been treated as an exceptional item, and details are provided in note 5.

Other provisions

Included within other provisions at 31 March 2022 are the following amounts:

- £163 million (2021: £166 million) of estimated liabilities in respect of past events insured by insurance subsidiary undertakings, including employer liability claims. In accordance with insurance industry practice, these estimates are based on experience from previous years, but we currently expect that cash flows will be incurred until 2037;
- £121 million (2021: £nil) of estimated liabilities in respect of interconnector excess revenues which will be repayable in future reporting periods in accordance with the cap and floor regime constructed by Ofgem (see notes 3 and 38). These estimates are based on the respective interconnectors' performance against their cumulative caps and cash outflows will be required to settle these liabilities by the financial year ending 31 March 2028;
- £28 million (2021: £27 million) in respect of onerous lease commitments and rates payable on surplus properties with expenditure expected to be incurred until 2039; and
- £26 million (2021: £13 million) in respect of emissions provisions with expenditure expected to be incurred until 2023.

Notes to the consolidated financial statements continued

27. Share capital

Ordinary share capital represents the total number of shares issued which are publicly traded. We also disclose the number of treasury shares the Company holds, which are shares that the Company has bought itself, predominantly to actively manage scrip issuances and settle employee share option and reward plan liabilities.

Share capital is accounted for as an equity instrument. An equity instrument is any contract that includes a residual interest in the consolidated assets of the Company after deducting all its liabilities and is recorded at the proceeds received, net of direct issue costs, with an amount equal to the nominal amount of the shares issued included in the share capital account and the balance recorded in the share premium account.

	Allotted, called-up and fully paid	
	million	£m
At 1 April 2020	3,780	470
Issued during the year in lieu of dividends ¹	35	4
At 31 March 2021	3,815	474
Issued during the year in lieu of dividends ¹	89	11
At 31 March 2022	3,904	485

1. The issue of shares under the scrip dividend programme is considered to be a bonus issue under the terms of the Companies Act 2006, and the nominal value of the shares is charged to the share premium account.

The share capital of the Company consists of ordinary shares of 12²⁰⁴/₄₇₃ pence nominal value each including ADSs. The ordinary shares and ADSs allow holders to receive dividends and vote at general meetings of the Company. The Company holds treasury shares but may not exercise any rights over these shares including the entitlement to vote or receive dividends. There are no restrictions on the transfer or sale of ordinary shares.

In line with the provisions of the Companies Act 2006, the Company has amended its Articles of Association and ceased to have authorised share capital.

The Company has implemented a share forfeiture programme following the completion of a tracing and notification exercise to any shareholders who have not had contact with the Company over the past 12 years, in accordance with the provisions set out in the Company's Articles of Association. Under the share forfeiture programme, the shares and dividends associated with shares of untraced members have been forfeited, with the resulting proceeds transferred to the Company to use in line with the Company's corporate responsibility strategy. During the financial year, the Company received £16 million of proceeds from the sale of untraced shares and derecognised £32 million of liabilities related to unclaimed dividends, which are reflected in share premium and the income statement respectively.

Treasury shares

At 31 March 2022, the Company held 259 million (2021: 266 million) of its own shares. The market value of these shares as at 31 March 2022 was £3,038 million (2021: £2,296 million).

For the benefit of employees and in connection with the operation of the Company's various share plans, the Company made the following transactions in respect of its own shares during the year ended 31 March 2022:

- i. During the year, 4 million (2021: 4 million) treasury shares were gifted to National Grid Employee Share Trusts and 2 million (2021: 2 million) treasury shares were re-issued in relation to employee share schemes, in total representing approximately 0.2% (2021: 0.2%) of the ordinary shares in issue as at 31 March 2022. The nominal value of these shares was £1 million (2021: £1 million) and the total proceeds received were £17 million (2021: £17 million). National Grid settles share awards under its Long Term Incentive Plan and the Save As You Earn scheme, by the transfer of treasury shares to its employee share trusts.
- ii. During the year, the Company made payments totalling £3 million (2021: £2 million) to National Grid Employee Share Trusts to enable the Trustees to make purchases of National Grid plc shares to settle share awards in relation to all employee share plans and discretionary reward plans. The cost of such purchases is deducted from retained earnings in the period that the transaction occurs.

The maximum number of ordinary shares held in treasury during the year was 266 million (2021: 272 million) representing approximately 6.8% (2021: 7.1%) of the ordinary shares in issue as at 31 March 2022 and having a nominal value of £33 million (2021: £34 million).

28. Other equity reserves

Other equity reserves are different categories of equity as required by accounting standards and represent the impact of a number of our historical transactions or fair value movements on certain financial instruments that the Company holds.

Other equity reserves comprise the translation reserve (see accounting policy C in note 1), cash flow hedge reserve and the cost of hedging reserve (see note 32), debt instruments at fair value through other comprehensive income reserve (FVOCI debt) and equity investments at fair value through other comprehensive income reserve (FVOCI equity) (see note 15), the capital redemption reserve and the merger reserve.

The merger reserve arose as a result of the application of merger accounting principles under the then prevailing UK GAAP, which under IFRS 1 was retained for mergers that occurred prior to the IFRS transition date. Under merger accounting principles, the difference between the carrying amount of the capital structure of the acquiring vehicle and that of the acquired business was treated as a merger difference and included within reserves. The merger reserve represents the difference between the carrying value of subsidiary undertaking investments and their respective capital structures following the Lattice demerger from BG Group plc and the 1999 Lattice refinancing.

The cash flow hedge reserve will amortise as the committed future cash flows from borrowings are paid or capitalised in fixed assets (as described in note 32). Cost of hedging, FVOCI debt and FVOCI equity reserves arose as a result of the adoption of IFRS 9 on 1 April 2018. See note 15 for further detail on FVOCI debt and FVOCI equity reserves; and note 32 in respect of cost of hedging reserve.

As the amounts included in other equity reserves are not attributable to any of the other classes of equity presented, they have been disclosed as a separate classification of equity.

	Translation £m	Cash flow hedge £m	Cost of hedging £m	FVOCI equity £m	FVOCI debt £m	Own credit £m	Capital redemption £m	Merger £m	Total £m
At 1 April 2019	750	61	17	34	48	13	19	(5,165)	(4,223)
Exchange adjustments ¹	560	—	—	—	—	—	—	—	560
Net losses taken to equity	—	(142)	(33)	(13)	(15)	(3)	—	—	(206)
Share of net losses of associates taken to equity	—	(5)	—	—	—	—	—	—	(5)
Transferred to profit or loss	—	14	(45)	—	—	—	—	—	(31)
Net losses in respect of cash flow hedging of capital expenditure	—	(17)	—	—	—	—	—	—	(17)
Tax	—	29	11	4	(2)	—	—	—	42
Cash flow hedges transferred to the statement of financial position, net of tax	—	(15)	—	—	—	—	—	—	(15)
At 1 April 2020	1,310	(75)	(50)	25	31	10	19	(5,165)	(3,895)
Exchange adjustments ¹	(1,345)	—	—	—	—	—	—	—	(1,345)
Net gains/(losses) taken to equity	—	14	11	36	80	(11)	—	—	130
Share of net gains of associates taken to equity	—	1	—	—	—	—	—	—	1
Transferred to profit or loss	—	56	3	—	—	—	—	—	59
Net losses in respect of cash flow hedging of capital expenditure	—	(14)	—	—	—	—	—	—	(14)
Tax	—	(13)	8	(10)	—	2	—	—	(13)
Cash flow hedges transferred to the statement of financial position, net of tax	—	(17)	—	—	—	—	—	—	(17)
At 1 April 2021	(35)	(48)	(28)	51	111	1	19	(5,165)	(5,094)
Exchange adjustments ¹	629	—	—	—	—	—	—	—	629
Net losses taken to equity ²	—	(96)	(2)	(70)	(11)	(1)	—	—	(180)
Share of net gains of associates taken to equity	—	1	—	—	—	—	—	—	1
Transferred to profit or loss	—	40	(1)	—	—	—	—	—	39
Net losses in respect of cash flow hedging of capital expenditure	—	(1)	—	—	—	—	—	—	(1)
Tax	—	11	2	19	3	—	—	—	35
Cash flow hedges transferred to the statement of financial position, net of tax	—	8	—	—	—	—	—	—	8
At 31 March 2022	594	(85)	(29)	—	103	—	19	(5,165)	(4,563)

- The exchange adjustments recorded in the translation reserve comprise a gain of £754 million (2021: loss of £1,507 million; 2020: gain of £545 million) relating to the translation of foreign operations offset by a loss of £125 million (2021: gain of £183 million; 2020: gain of £5 million) relating to borrowings, cross-currency swaps and foreign exchange forward contracts used to hedge the net investment in non-sterling denominated subsidiaries.
- In the year ended 31 March 2022, the Group disposed of its equity instruments related to shares held as part of a portfolio of financial instruments which back some long-term employee liabilities. The equity instruments were previously measured at FVOCI and prior to the disposal the Group recognised a gain of £12 million in the year. The accumulated gain and losses of £82 million recognised in other comprehensive income were transferred to retained earnings on disposal (see note 15).

Notes to the consolidated financial statements continued

29. Net debt

We define net debt as the amount of borrowings and financing derivatives less cash and current financial investments.

(a) Composition of net debt

Net debt is comprised as follows:

	2022 £m	2021 £m	2020 £m
Cash and cash equivalents (see note 20)	204	157	73
Current financial investments (see note 15)	3,145	2,342	1,998
Borrowings (see note 21)	(45,465)	(31,220)	(30,794)
Financing derivatives ¹ (see note 17)	(693)	175	133
	(42,809)	(28,546)	(28,590)

1. The financing derivatives balance included in net debt excludes the commodity derivatives (see note 17).

(b) Analysis of changes in net debt

	Notes	Cash and cash equivalents £m	Financial investments ¹ £m	Borrowings £m	Financing derivatives £m	Total ² £m
At 1 April 2019		252	1,981	(28,730)	(32)	(26,529)
Impact of transition to IFRS 16		—	—	(474)	—	(474)
Cash flow		(183)	(42)	450	450	675
Fair value gains and losses		—	1	(57)	(246)	(302)
Foreign exchange movements		4	24	(807)	—	(779)
Interest income/(charges)	6	—	34	(1,092)	(39)	(1,097)
Other non-cash movements		—	—	(84)	—	(84)
At 1 April 2020		73	1,998	(30,794)	133	(28,590)
Cash flow		95	429	(2,336)	4	(1,808)
Fair value gains and losses		—	14	159	31	204
Foreign exchange movements		(7)	(106)	1,710	—	1,597
Interest income/(charges)	6	—	7	(946)	7	(932)
Other non-cash movements		—	—	(136)	—	(136)
Reclassification to held for sale	10	(4)	—	1,123	—	1,119
At 1 April 2021		157	2,342	(31,220)	175	(28,546)
Cash flow	29(c)	9	752	(9,993)	262	(8,970)
Fair value gains and losses		—	(12)	286	(604)	(330)
Foreign exchange movements		5	53	(652)	—	(594)
Interest income/(charges)	6	—	43	(1,177)	(59)	(1,193)
Other non-cash movements		—	(15)	34	—	19
Acquisition of WPD	37	44	69	(8,286)	26	(8,147)
Reclassification to held for sale ³	10	(11)	(87)	5,543	(493)	4,952
At 31 March 2022		204	3,145	(45,465)	(693)	(42,809)
Balances at 31 March 2022 comprise:						
Non-current assets		—	—	—	264	264
Current assets		204	3,145	—	34	3,383
Current liabilities		—	—	(12,121)	(136)	(12,257)
Non-current liabilities		—	—	(33,344)	(855)	(34,199)
		204	3,145	(45,465)	(693)	(42,809)

1. Cash flows on current financial investments comprise £29 million (2021: £7 million; 2020: £35 million) of interest received and £781 million of cash outflows (2021: £436 million outflows; 2020: £7 million outflows) of net cash flow movements in short-term financial investments, as presented in the consolidated cash flow statement.

2. Includes accrued interest at 31 March 2022 of £351 million (2021: £263 million; 2020: £246 million).

3. Reclassification to held for sale represents the opening net debt position of the UK Gas Transmission business. The closing net debt position of the UK Gas Transmission business is disclosed in note 10.

29. Net debt continued

(c) Reconciliation of cash flow from liabilities within net debt to cash flow statement

	2022		2021 ¹		2020 ¹	
	Borrowings and other £m	Financing derivatives £m	Borrowings and other £m	Financing derivatives £m	Borrowings and other £m	Financing derivatives £m
Cash flows per financing activities section of cash flow statement:						
Proceeds received from loans	12,347	—	5,150	—	3,921	—
Repayment of loans	(1,261)	—	(1,654)	—	(3,037)	—
Payments of lease liabilities	(117)	—	(107)	—	(115)	—
Net movements in short-term borrowings	(11)	—	(619)	—	(562)	—
Cash inflows on derivatives	—	20	—	17	—	46
Cash outflows on derivatives	—	(114)	—	(183)	—	(245)
Interest paid	(998)	(55)	(711)	(42)	(802)	(65)
Cash flows per financing activities section of cash flow statement	9,960	(149)	2,059	(208)	(595)	(264)
<i>Adjustments:</i>						
Non-net debt-related items	33	—	29	—	34	—
Derivative cash (outflow)/inflow in relation to capital expenditure	—	(8)	—	10	—	13
Derivative cash inflows per investing section of cash flow statement	—	17	—	225	—	58
Derivative cash outflows per investing section of cash flow statement	—	(122)	—	(81)	—	(281)
Cash flows relating to financing liabilities within net debt	9,993	(262)	2,088	(54)	(561)	(474)
<i>Analysis of changes in net debt:</i>						
Borrowings	9,993	—	2,088	—	(561)	—
Financing derivatives	—	(262)	—	(54)	—	(474)
Cash flow movements relating to financing liabilities within net debt	9,993	(262)	2,088	(54)	(561)	(474)

1. Comparative amounts have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation. See notes 1 and 10 for further information.

(d) Reconciliation of changes in liabilities arising from financing activities

The table below reconciles changes in liabilities arising from financing activities, including both changes arising from cash flows and non-cash changes. For the purposes of this table, the liabilities arising from financing activities are those for which cash flows were, or future cash flows will be, classified in the consolidated cash flow statement within financing activities. As a result we have separately disclosed the reconciliation below, excluding derivatives associated with our net investment hedges and derivatives associated with the hedging of capital expenditure, given that they are both classified in the consolidated cash flow statement within investing activities.

	Notes	Borrowings £m	Financing derivatives £m	Total £m
At 1 April 2019		(28,730)	228	(28,502)
Impact of transition to IFRS 16		(474)	—	(474)
Cash flow ¹		450	240	690
Fair value gains and losses		(57)	(231)	(288)
Foreign exchange movements		(807)	—	(807)
Interest charges	6	(1,092)	(9)	(1,101)
Other non-cash movements		(84)	—	(84)
At 1 April 2020		(30,794)	228	(30,566)
Cash flow ¹		(2,336)	158	(2,178)
Fair value gains and losses		159	(301)	(142)
Foreign exchange movements		1,710	—	1,710
Interest charges	6	(946)	11	(935)
Other non-cash movements		(136)	—	(136)
Reclassification to held for sale	10	1,123	—	1,123
At 1 April 2021		(31,220)	96	(31,124)
Cash flow		(9,993)	149	(9,844)
Fair value gains and losses		286	(472)	(186)
Foreign exchange movements		(652)	—	(652)
Interest charges	6	(1,177)	(54)	(1,231)
Other non-cash movements		34	—	34
Acquisition of WPD	37	(8,286)	26	(8,260)
Reclassification to held for sale ²	10	5,543	(495)	5,048
At 31 March 2022		(45,465)	(750)	(46,215)

1. Comparative amounts include financing cash flows attributable to the UK Gas Transmission business which was classified as a discontinued operation in the year (see notes 1 and 10). In order to reconcile financing cash flows to the consolidated cash flow statement for the years ended 31 March 2021 and 2020, cash flows from financing activities for both continuing operations and discontinued operations should be included, along with non-debt related items in note 29(c).

2. Reclassification to held for sale represents the opening net debt position of the UK Gas Transmission business. The closing net debt position of the UK Gas Transmission business is disclosed in note 10.

Notes to the consolidated financial statements continued

30. Commitments and contingencies

Commitments are those amounts that we are contractually required to pay in the future as long as the other party meets its obligations. These commitments primarily relate to energy purchase agreements and contracts for the purchase of assets which, in many cases, extend over a long period of time. We also disclose any contingencies, which include guarantees that companies have given, where we pledge assets against current obligations that will remain for a specific period.

Contingent assets are disclosed where the Group concludes that an inflow of economic benefits is probable.

	2022 £m	2021 £m
<i>Future capital expenditure</i>		
Contracted for but not provided ¹	2,881	2,716
<i>Energy purchase commitments²</i>		
Less than 1 year	1,386	1,255
In 1 to 2 years	1,366	894
In 2 to 3 years	1,219	975
In 3 to 4 years	1,189	959
In 4 to 5 years	1,088	896
More than 5 years	12,266	10,805
	18,514	15,784
<i>Guarantees</i>		
Guarantee of sublease for US property (expires 2040)	149	149
Guarantees of certain obligations of Grain LNG (expire up to 2025)	31	33
Guarantees of certain obligations for construction of HVDC West Coast Link (expected expiry 2059)	84	85
Guarantees of certain obligations of National Grid North Sea Link Limited (various expiry dates)	569	584
Guarantees of certain obligations of St William Homes LLP (various expiry dates)	44	53
Guarantees of certain obligations of National Grid IFA 2 Limited (expected expiry 2022)	130	170
Guarantees of certain obligations of National Grid Viking Link Limited (expected expiry 2024)	1,177	1,276
Other guarantees and letters of credit (various expiry dates)	380	486
	2,564	2,836

1. Included within future capital expenditure is £205 million (2021: £186 million) pertaining to the UK Gas Transmission business.

2. Energy purchase commitments relate to contractual commitments to purchase electricity or gas that are used to satisfy physical delivery requirements to our customers or for energy that we use ourselves (i.e. normal purchase, sale or usage) and hence are accounted for as ordinary purchase contracts (see note 32(f)). Details of commodity contract derivatives that do not meet the normal purchase, sale or usage criteria, and hence are accounted for as derivative contracts, are shown in note 17(b).

Through the ordinary course of our operations, we are party to various litigation, claims and investigations. We do not expect the ultimate resolution of any of these proceedings to have a material adverse effect on our results of operations, cash flows or financial position.

Contingent assets

In September 2021, a fire at the IFA interconnector station in Sellindge, Kent caused significant damage to infrastructure on site. This incident has resulted in claims under the Group's insurance policy for the rebuild cost of the damaged property and lost revenue arising from the business interruption. The Group believes that a favourable outcome is probable. However, the contingent asset has not been recognised as a receivable at 31 March 2022 because receipt of the amount is dependent on the outcome of the reinsurers formally agreeing liability and signing off on the investigation report. As at 31 March 2022, the investigation report is with the reinsurers for review and the final amount and timing of any insurance proceeds is not known with certainty.

The exceptional environmental insurance recovery described in note 5 is the result of one of a number of legal proceedings that are ongoing between the Group and insurance companies who have provided historic cover over sites which were environmentally impacted in the past. Following the resolution of that claim, the Group has reassessed the likelihood of recovery in other similar legal proceedings and now believes that it is more likely than not that one or more of them will be successful. However, legal proceedings in each case still have a number of stages to complete, including in certain cases court proceedings.

31. Related party transactions

Related parties include joint ventures, associates, investments and key management personnel.

The following significant transactions with related parties were in the normal course of business. Amounts receivable from and payable to related parties are due on normal commercial terms:

	2022 £m	2021 £m	2020 £m
Sales: Goods and services supplied to a pension plan	3	3	5
Sales: Goods and services supplied to joint ventures ¹	284	79	101
Sales: Goods and services supplied to associates ²	—	1	33
Purchases: Goods and services received from joint ventures ³	19	35	61
Purchases: Goods and services received from associates ³	41	43	56
Receivable from joint ventures ⁴	43	263	255
Receivable from associates	1	—	1
Payable to joint ventures ⁵	247	17	—
Payable to associates	4	3	4
Interest income from joint ventures	—	—	2
Interest income from associates	—	—	8
Dividends received from joint ventures ⁶	123	49	34
Dividends received from associates ⁷	35	32	41

1. During the year, £74 million of sales were made to Emerald Energy Venture LLC (2021: £50 million; 2020: £21 million) and a further £7 million (2021: £6 million; 2020: £32 million) of sales were made to NGET/SPT Upgrades Limited. Prior to the Group's disposal of its equity interest in St William Homes LLP on 15 March 2022, a further £202 million (2021: £14 million; 2020: £38 million) of property sites were sold to St William Homes LLP.
2. In previous years, sales related to transactions with Quadgas, until the date it ceased to be a related party following the disposal of our 39% stake in June 2019 (see note 10) and included income of £31 million in 2020 relating to a Transitional Service Agreement following the sale of the UK Gas Distribution business to Quadgas.
3. During the year, the Group received goods and services from a number of US associates, both for the transportation of gas and for pipeline services in the US, most notably, £38 million (2021: £41 million; 2020: £31 million) of purchases from Millennium Pipeline Company LLC. The Group purchased assets of £18 million (2021: £17 million; 2020: £nil) from BritNed Development Limited. The Group also purchased assets of £0.3 million (2021: £5 million; 2020: £58 million) from NGET/SPT Upgrades Limited (a joint venture).
4. Amounts receivable from joint ventures include £33 million (2021: £19 million; 2020: £nil) from Emerald Energy Venture LLC. Amounts receivable in comparative periods include amounts due from St William Homes LLP, which is no longer a related party of the Group (2021: £241 million; 2020: £242 million).
5. Amounts payable to joint ventures include £223 million due to Bight Wind Holdings LLC, NGV's joint venture with RWE Renewables, in respect of a capital call to NGV following the successful auction of six seabed leases in New York.
6. Includes dividends of £39 million (2021: £18 million; 2020: £25 million) received from BritNed Development Limited and £77 million (2021: £25 million; 2020: £8 million) from Nemo Link Limited.
7. Includes dividends of £34 million (2021: £31 million; 2020: £32 million) received from Millennium Pipeline Company LLC.

Details of investments in principal subsidiary undertakings, joint ventures and associates are disclosed in note 34, and information relating to pension fund arrangements is disclosed in note 25. For details of Directors' and key management remuneration, refer to the Directors' Remuneration Report on pages 108 – 131 and note 4(c).

32. Financial risk management

Our activities expose us to a variety of financial risks including credit risk, liquidity risk, capital risk, currency risk, interest rate risk, inflation risk and commodity price risk. Our risk management programme focuses on the unpredictability of financial markets and seeks to minimise potential volatility of financial performance from these risks. We use financial instruments, including derivative financial instruments, to manage these risks.

Risk management related to financing activities is carried out by a central treasury department under policies approved by the Finance Committee of the Board. The objective of the treasury department is to manage funding and liquidity requirements, including managing associated financial risks, to within acceptable boundaries. The Finance Committee provides written principles for overall risk management, and written policies covering the following specific areas: foreign exchange risk, interest rate risk, credit risk, liquidity risk, use of derivative financial instruments and non-derivative financial instruments, and investment of excess liquidity. The Finance Committee has delegated authority to administer the commodity price risk policy and credit policy for US-based commodity transactions to the Energy Procurement Risk Management Committee and the National Grid USA Board of Directors. Details of key activities in the current year are set out in the Finance Committee report on page 107.

We have exposure to the following risks, which are described in more detail below:

- credit risk;
- liquidity risk;
- currency risk;
- interest rate risk;
- commodity price risk; and
- capital risk.

Where appropriate, derivatives and other financial instruments used for hedging currency and interest rate risk exposures are formally designated as fair value, cash flow or net investment hedges as defined in IFRS 9. Hedge accounting allows the timing of the profit or loss impact of qualifying hedging instruments to be recognised in the same reporting period as the corresponding impact of hedged exposures. To qualify for hedge accounting, documentation is prepared specifying the risk management objective and strategy, the component transactions and methodology used for measurement of effectiveness.

Notes to the consolidated financial statements continued

32. Financial risk management continued

Hedge accounting relationships are designated in line with risk management activities further described below. The categories of hedging entered into are as follows:

- currency risk arising from our forecasted foreign currency transactions (capital expenditure or revenues) is designated in cash flow hedges;
- currency risk arising from our net investments in foreign operations is designated in net investment hedges; and
- currency and interest rate risk arising from borrowings are designated in cash flow or fair value hedges.

Critical terms of hedging instruments and hedged items are transacted to match on a 1:1 ratio by notional values. Hedge ineffectiveness can nonetheless arise from inherent differences between derivatives and non-derivative instruments and other market factors including credit, correlations, supply and demand, and market volatilities. Ineffectiveness is recognised in the remeasurements component of finance income and costs (see note 6). Hedge accounting is discontinued when a hedging relationship no longer qualifies for hedge accounting.

Certain hedging instrument components are treated separately as costs of hedging with the gains and losses deferred in a component of other equity reserves and released systematically into profit or loss to correspond with the timing and impact of hedged exposures, or released in full to finance costs upon an early discontinuation of a hedging relationship.

Refer to sections (c) currency risk and (d) interest rate risk below for further details on hedge accounting.

(a) Credit risk

We are exposed to the risk of loss resulting from counterparties' default on their commitments including failure to pay or make a delivery on a contract. This risk is inherent in our commercial business activities. Exposure arises from derivative financial instruments, deposits with banks and financial institutions, trade receivables and committed transactions with wholesale and retail customers.

Treasury credit risk

Counterparty risk arises from the investment of surplus funds and from the use of derivative financial instruments. As at 31 March 2022, the following limits were in place for investments and derivative financial instruments held with banks and financial institutions:

	Maximum limit £m	Long-term limit £m
Triple 'A' G7 sovereign entities (AAA)	2,708	2,031
Triple 'A' vehicles (AAA)	500	—
Triple 'A' range institutions and non-G7 sovereign entities (AAA)	2,462	1,847
Double 'A+' G7 sovereign entities (AA+)	2,462	1,847
Double 'A' range institutions (AA)	1,477 to 1,970	1,108 to 1,477
Single 'A' range institutions (A)	492 to 985	369 to 739

The maximum limit applies to all transactions, including long-term transactions. The long-term limit applies to transactions which mature in more than 12 months' time.

As at 31 March 2022 and 2021, we had a number of exposures to individual counterparties. In accordance with our treasury policies, counterparty credit exposure utilisations are monitored daily against the counterparty credit limits. Counterparty credit ratings and market conditions are reviewed continually with limits being revised and utilisation adjusted, if appropriate. Management does not expect any significant losses from non-performance by these counterparties. Further information on financial investments subject to impairment provisioning is included in note 15.

Commodity credit risk

The credit policy for US-based commodity transactions is owned by the Finance Committee to the Board, which establishes controls and procedures to determine, monitor and minimise the credit exposure to counterparties.

Wholesale and retail credit risk

Our principal commercial exposure in the UK is governed by the credit rules within the regulated codes: Uniform Network Code and Connection and Use of System Code. These set out the level of credit relative to the RAV for each credit rating. In the US, we are required to supply electricity and gas under state regulations. Our policies and practices are designed to limit credit exposure by collecting security deposits prior to providing utility services, or after utility services have commenced if certain applicable regulatory requirements are met. Collection activities are managed on a daily basis. Sales to retail customers are usually settled in cash, cheques, electronic bank payments or by using major credit cards. We are committed to measuring, monitoring, minimising and recording counterparty credit risk in our wholesale business. The utilisation of credit limits is regularly monitored, and collateral is collected against these accounts when necessary.

In March 2020, the Group's US distribution business temporarily ceased certain cash collection and termination activities in response to regulatory instructions following the COVID-19 pandemic. At the time this resulted in the recognition of expected credit losses. In the year ended 31 March 2022, collection activities resumed in New England and New York and are supported by certain government COVID funding programmes, which has been factored into the assessment of expected credit losses for the year (see note 19 for further details).

32. Financial risk management continued

(a) Credit risk continued

Offsetting financial assets and liabilities

The following tables set out our financial assets and liabilities which are subject to offset and to enforceable master netting arrangements or similar agreements. The tables show the amounts which are offset and reported net in the statement of financial position. Amounts which cannot be offset under IFRS, but which could be settled net under terms of master netting arrangements if certain conditions arise, and with collateral received or pledged, are shown to present National Grid's net exposure.

Financial assets and liabilities on different transactions would only be reported net in the balance sheet if the transactions were with the same counterparty, a currently enforceable legal right of offset exists, and the cash flows were intended to be settled on a net basis.

Amounts which do not meet the criteria for offsetting on the statement of financial position, but could be settled net in certain circumstances, principally relate to derivative transactions under ISDA agreements, where each party has the option to settle amounts on a net basis in the event of default of the other party.

Commodity contract derivatives that have not been offset on the balance sheet may be settled net in certain circumstances under ISDA or North American Energy Standards Board (NAESB) agreements.

For bank account balances and bank overdrafts, there are no 'Gross amounts offset' under cash pooling arrangements (2021: £nil). Our UK bank accounts for National Grid subsidiaries previously participated in GBP, EUR and USD Composite Accounting System overdraft facilities subject to offsetting gross and net overdraft limits. EUR and USD offsetting arrangements were discontinued in the prior year and GBP offsetting arrangements have no impact as at 31 March 2022. In the US, no offsetting arrangements exist, and cash transactions are settled through Service Company bank accounts with subsequent intercompany payables and receivables reported by subsidiaries with the Service Company.

The gross amounts offset for trade payables and receivables, which are subject to general terms and conditions, are insignificant.

	Gross carrying amounts £m	Gross amounts offset £m	Net amount presented in statement of financial position £m	Related amounts available to be offset but not offset in statement of financial position		Net amount £m
				Financial instruments £m	Cash collateral received/pledged £m	
At 31 March 2022						
<i>Assets</i>						
Financing derivatives	298	—	298	(136)	(55)	107
Commodity contract derivatives	289	—	289	(8)	(50)	231
	587	—	587	(144)	(105)	338
<i>Liabilities</i>						
Financing derivatives	(991)	—	(991)	136	771	(84)
Commodity contract derivatives	(22)	—	(22)	8	3	(11)
	(1,013)	—	(1,013)	144	774	(95)
	(426)	—	(426)	—	669	243
At 31 March 2021						
<i>Assets</i>						
Financing derivatives	942	—	942	(234)	(561)	147
Commodity contract derivatives	57	—	57	(8)	—	49
	999	—	999	(242)	(561)	196
<i>Liabilities</i>						
Financing derivatives	(767)	—	(767)	234	467	(66)
Commodity contract derivatives	(132)	—	(132)	8	4	(120)
	(899)	—	(899)	242	471	(186)
	100	—	100	—	(90)	10

Notes to the consolidated financial statements continued

32. Financial risk management continued

(b) Liquidity risk

Our policy is to determine our liquidity requirements by the use of both short-term and long-term cash flow forecasts. These forecasts are supplemented by a financial headroom analysis which is used to assess funding requirements for at least a 24-month period and maintain adequate liquidity for a continuous 12-month period.

We believe our contractual obligations, including those shown in commitments and contingencies in note 30, can be met from existing cash and investments, operating cash flows and other financing that we reasonably expect to be able to secure in the future, together with the use of committed facilities if required.

Our debt agreements and banking facilities contain covenants, including those relating to the periodic and timely provision of financial information by the issuing entity, restrictions on disposals and financial covenants, such as restrictions on the level of subsidiary indebtedness and interest coverage. Failure to comply with these covenants, or to obtain waivers of those requirements, could in some cases trigger a right, at the lender's discretion, to require repayment of some of our debt and may restrict our ability to draw upon our facilities or access the capital markets.

The following is a payment profile of our financial liabilities and derivatives:

	Less than 1 year £m	1 to 2 years £m	2 to 3 years £m	More than 3 years £m	Total £m
At 31 March 2022					
<i>Non-derivative financial liabilities</i>					
Borrowings, excluding lease liabilities	(11,589)	(1,322)	(2,468)	(28,119)	(43,498)
Interest payments on borrowings ¹	(970)	(928)	(883)	(12,525)	(15,306)
Lease liabilities	(132)	(96)	(79)	(366)	(673)
Other non-interest-bearing liabilities	(3,979)	(336)	—	—	(4,315)
Contingent consideration	(37)	(8)	—	—	(45)
<i>Derivative financial liabilities</i>					
Financing derivatives – receipts ²	3,149	1,008	2,075	4,726	10,958
Financing derivatives – payments ²	(3,401)	(1,189)	(2,336)	(5,468)	(12,394)
Commodity contract derivatives – receipts ²	1	1	—	—	2
Commodity contract derivatives – payments ²	(29)	2	(1)	—	(28)
<i>Derivative financial assets</i>					
Financing derivatives – receipts ²	4,512	316	1,427	464	6,719
Financing derivatives – payments ²	(4,405)	(282)	(1,313)	(405)	(6,405)
Commodity contract derivatives – receipts ²	234	37	3	—	274
Commodity contract derivatives – payments ²	(52)	(8)	(3)	—	(63)
	(16,698)	(2,805)	(3,578)	(41,693)	(64,774)
At 31 March 2021					
<i>Non-derivative financial liabilities</i>					
Borrowings, excluding lease liabilities	(3,350)	(1,690)	(806)	(25,562)	(31,408)
Interest payments on borrowings ¹	(810)	(755)	(731)	(12,018)	(14,314)
Lease liabilities	(118)	(108)	(90)	(599)	(915)
Other non-interest-bearing liabilities	(3,207)	(350)	—	—	(3,557)
Contingent consideration	(40)	(24)	—	—	(64)
<i>Derivative financial liabilities</i>					
Financing derivatives – receipts ²	3,773	749	451	4,326	9,299
Financing derivatives – payments ²	(3,899)	(877)	(533)	(5,153)	(10,462)
Commodity contract derivatives – receipts ²	12	—	—	—	12
Commodity contract derivatives – payments ²	(83)	(23)	(14)	(12)	(132)
<i>Derivative financial assets</i>					
Financing derivatives – receipts ²	2,162	926	833	1,789	5,710
Financing derivatives – payments ²	(1,700)	(834)	(780)	(1,536)	(4,850)
Commodity contract derivatives – receipts ²	21	4	1	1	27
Commodity contract derivatives – payments ²	(21)	(4)	(2)	—	(27)
	(7,260)	(2,986)	(1,671)	(38,764)	(60,681)

1. The interest on borrowings is calculated based on borrowings held at 31 March without taking account of future issues. Floating rate interest is estimated using a forward interest rate curve as at 31 March. Payments are included on the basis of the earliest date on which the Company can be required to settle.

2. The receipts and payments line items for derivatives comprise gross undiscounted future cash flows, after considering any contractual netting that applies within individual contracts. Where cash receipts and payments within a derivative contract are settled net, and the amount to be received/(paid) exceeds the amount to be paid/(received), the net amount is presented within derivative receipts/(payments).

32. Financial risk management continued

(c) Currency risk

National Grid operates internationally with mainly pound sterling as the functional currency for the UK companies and US dollar for the US businesses. Currency risk arises from three major areas: funding activities, capital investment and related revenues, and holdings in foreign operations. This risk is managed using financial instruments including derivatives as approved by policy, typically cross-currency interest rate swaps, foreign exchange swaps and forwards.

Funding activities – our policy is to borrow in the most advantageous market available. Foreign currency funding gives rise to risk of volatility in the amount of functional currency cash to be repaid. This risk is reduced by swapping principal and interest back into the functional currency of the issuer. All foreign currency debt and transactions are hedged except where they provide a natural offset to assets elsewhere in the Group.

Capital investment and related revenues – capital projects often incur costs or generate revenues in a foreign currency, most often euro transactions done by the UK business. Our policy for managing foreign exchange transaction risk is to hedge contractually committed foreign currency cash flows over a prescribed minimum size, typically by buying euro forwards to hedge future expenditure, and selling euro forwards to hedge future revenues. For hedges of forecast cash flows our policy is to hedge a proportion of highly probable cash flows.

Holdings in foreign operations – we are exposed to fluctuations on the translation into pounds sterling of our foreign operations. The policy for managing this translation risk is to issue foreign currency debt or to replicate foreign debt using derivatives that pay cash flows in the currency of the foreign operation. The primary managed exposure arises from dollar denominated assets and liabilities held by our US operations, with a smaller euro exposure in respect of joint venture investments.

Derivative financial instruments were used to manage foreign currency risk as follows:

	2022					2021				
	Sterling £m	Euro £m	Dollar £m	Other £m	Total £m	Sterling £m	Euro £m	Dollar £m	Other £m	Total £m
Cash and cash equivalents	111	—	93	—	204	63	—	94	—	157
Financial investments	1,725	—	1,420	—	3,145	1,215	—	1,127	—	2,342
Borrowings	(22,910)	(7,052)	(14,118)	(1,385)	(45,465)	(12,210)	(5,351)	(12,660)	(999)	(31,220)
Pre-derivative position	(21,074)	(7,052)	(12,605)	(1,385)	(42,116)	(10,932)	(5,351)	(11,439)	(999)	(28,721)
Derivative effect	(1,378)	6,849	(7,570)	1,406	(693)	(826)	5,459	(5,494)	1,036	175
Net debt position	(22,452)	(203)	(20,175)	21	(42,809)	(11,758)	108	(16,933)	37	(28,546)

The exposure to dollars largely relates to our net investment hedge activities and exposure to euros largely relates to hedges for our future non-sterling capital expenditure.

The currency exposure on other financial instruments is as follows:

	2022					2021				
	Sterling £m	Euro £m	Dollar £m	Other £m	Total £m	Sterling £m	Euro £m	Dollar £m	Other £m	Total £m
Trade and other receivables	407	—	1,788	—	2,195	282	—	1,387	—	1,669
Trade and other payables	(1,459)	—	(2,554)	—	(4,013)	(1,207)	—	(1,878)	—	(3,085)
Other non-current liabilities	(90)	—	(253)	—	(343)	(77)	—	(288)	—	(365)

The carrying amounts of other financial instruments are denominated in the above currencies, which in most instances are the functional currency of the respective subsidiaries. Our exposure to dollars is due to activities in our US subsidiaries. We do not have any other significant exposure to currency risk on these balances.

Hedge accounting for currency risk

Where available, derivatives transacted for hedging are designated for hedge accounting. Economic offset is qualitatively determined because the critical terms (currency and volume) of the hedging instrument match the hedged exposure. If a forecast transaction was no longer expected to occur, the cumulative gain or loss previously reported in equity would be transferred to the income statement. This has not occurred in the current or comparative years.

Cash flow hedging of currency risk of capital expenditure and revenues is designated as hedging the exposure to movements in the spot translation rates only. The timing of forecasted transactions is not designated as a hedged risk. Gains and losses on hedging instruments arising from forward points and foreign currency basis spreads are excluded from designation and are recognised immediately in profit or loss, along with any hedge ineffectiveness. On recognition of the hedged purchase or sale in the financial statements, the associated hedge gains and losses, deferred in the cash flow hedge reserve in other equity reserves, are transferred out of reserves and included with the recognition of the underlying transaction. Where a non-financial asset or a non-financial liability results from a forecast transaction or firm commitment being hedged, the amounts deferred in reserves are included directly in the initial measurement of that asset or liability.

Net investment hedging is also designated as hedging the exposure to movements in spot translation rates only: spot-related gains and losses on hedging instruments are presented in the cumulative translation reserve within other equity reserves to offset gains or losses on translation of the hedged balance sheet exposure. Any ineffectiveness is recognised immediately in the income statement. Amounts deferred in the cumulative translation reserve with respect to net investment hedges are subsequently recognised in the income statement in the event of disposal of the overseas operations concerned. Any remaining amounts deferred in the cost of hedging reserve are also released to the income statement.

Hedges of foreign currency funding are designated as cash flow hedges or fair value hedges of forward exchange risk (hedging both currency and interest rate risk together, where applicable). Gains and losses arising from foreign currency basis spreads are excluded from designation and are treated as a cost of hedging, deferred initially in other equity reserves and released into profit or loss over the life of the hedging relationship. Hedge accounting for funding is described further in the interest rate risk section below.

Notes to the consolidated financial statements continued

32. Financial risk management continued

(d) Interest rate risk

National Grid's interest rate risk arises from our long-term borrowings. Our interest rate risk management policy is to seek to minimise total financing costs (being interest costs and changes in the market value of debt). Hedging instruments principally consist of interest rate and cross-currency swaps that are used to translate foreign currency debt into functional currency and to adjust the proportion of fixed-rate and floating-rate in the borrowings portfolio to within a range set by the Finance Committee of the Board. The benchmark interest rates hedged are currently based on LIBOR for USD and Sterling Overnight Index Average (SONIA) for GBP.

LIBOR is being replaced as an interest rate benchmark by alternative reference rates in certain currencies including our functional currencies, USD and GBP, and foreign currencies in which we operate. This impacts contracts including financial liabilities that pay LIBOR-based cash flows, and derivatives that receive or pay LIBOR-based cash flows. The change in benchmark also affects discount rates which will impact the valuations of certain liabilities. We have disclosed our exposure to LIBOR on our derivative portfolio in note 17, on our borrowings in note 21 and on our hedging arrangements in note 32(e). We are managing the risk by transitioning LIBOR cash flows to alternative reference rates on our affected contracts in line with the relevant jurisdictions. The migration project is underway, with all affected contracts where we previously paid or received GBP LIBOR amended in the year to 31 March 2022 (see note 21). The Finance Committee of the Board have delegated to the treasury department the authority to determine which benchmarks are the most appropriate. A combination of LIBOR and the successor benchmarks, primarily GBP SONIA and USD Secured Overnight Financing Rate (SOFR) will be used in the portfolio during the migration period.

We also consider inflation risk and hold some inflation-linked borrowings. We believe that these provide a partial economic offset to the inflation risk associated with our UK inflation-linked revenues.

The table in note 21 sets out the carrying amount, by contractual maturity, of borrowings that are exposed to interest rate risk before taking into account interest rate swaps.

Net debt was managed using derivative financial instruments to hedge interest rate risk as follows:

	2022					2021				
	Fixed rate £m	Floating rate £m	Inflation linked £m	Other ¹ £m	Total £m	Fixed rate £m	Floating rate £m	Inflation linked £m	Other ¹ £m	Total £m
Cash and cash equivalents	82	118	—	4	204	64	67	—	26	157
Financial investments	—	3,107	—	38	3,145	—	2,309	—	33	2,342
Borrowings	(30,616)	(10,484)	(4,365)	—	(45,465)	(23,163)	(1,762)	(6,295)	—	(31,220)
Pre-derivative position	(30,534)	(7,259)	(4,365)	42	(42,116)	(23,099)	614	(6,295)	59	(28,721)
Derivative effect	2,860	(3,366)	(187)	—	(693)	2,869	(2,511)	(183)	—	175
Net debt position	(27,674)	(10,625)	(4,552)	42	(42,809)	(20,230)	(1,897)	(6,478)	59	(28,546)

1. Represents financial instruments which are not directly affected by interest rate risk, such as investments in equity or other similar financial instruments.

Hedge accounting for interest rate risk

Borrowings paying variable or floating-rates expose National Grid to cash flow interest rate risk, partially offset by cash held at variable rates. Where a hedging instrument results in paying a fixed-rate, it is designated as a cash flow hedge because it has reduced the cash flow volatility of the hedged borrowing. Changes in the fair value of the derivative are initially recognised in other comprehensive income as gains or losses in the cash flow hedge reserve, with any ineffective portion recognised immediately in the income statement.

Borrowings paying fixed-rates expose National Grid to fair value interest rate risk. Where the hedging instrument pays a floating-rate, it is designated as a fair value hedge because it has reduced the fair value volatility of the borrowing. Changes in the fair value of the derivative and changes in the fair value of the hedged item in relation to the risk being hedged are both adjusted on the balance sheet and offset in the income statement to the extent the fair value hedge is effective, with the residual difference remaining as ineffectiveness.

Both types of hedges are designated as hedging the currency and interest rate risk arising from changes in forward points. Amounts accumulated in the cash flow hedge reserve (cash flow hedges only) and the deferred cost of hedging reserve (both cash flow and fair value hedges) are reclassified from reserves to the income statement on a systematic basis as hedged interest expense is recognised. Adjustments made to the carrying value of hedged items in fair value hedges are similarly released to the income statement to match the timing of the hedged interest expense.

When hedge accounting is discontinued, any remaining cumulative hedge accounting balances continue to be released to the income statement to match the impact of outstanding hedged items. Any remaining amounts deferred in the cost of hedging reserve are released immediately to the income statement as finance costs.

The Group early-adopted Phase I of IFRS Interest Rate Benchmark Reform amendments related to hedge accounting with effect from 1 April 2019, and Phase II with effect from 1 April 2020. The amendments impact our fair value hedging relationships where derivative cash flows will have been transitioned from paying LIBOR to paying an alternative reference rate. The hedged risk must be re-documented to reflect this, and allow existing hedge designations to continue unchanged during the period of uncertainty relating to the timing and method of benchmark migrations. This process has been completed for sterling LIBOR contracts but remains in progress for US dollar contracts.

The amendments will be applied until the earliest point in time of the Group's contracts that reference LIBOR being amended, the hedging relationship being formally discontinued or formal market conventions ending uncertainty being published and widely adopted. If amended cash flows do not cause a hedging relationship to be discontinued, then the amendments will cease to be applied only when that relationship is discontinued under IFRS 9.

The IFRS amendments impact fair value and cash flow hedges of interest rate risk and related hedging instruments, and certain net investment hedges that use cross-currency interest rate swaps to pay a foreign currency floating rate and receive a functional currency floating rate. The notional values of hedging instruments, for each type of hedging relationship impacted, are shown in the hedge accounting tables in note 32(e). These amounts also correspond to the exposures designated as hedged.

32. Financial risk management continued

(e) Hedge accounting

In accordance with the requirements of IFRS 7, certain additional information about hedge accounting is disaggregated by risk type and hedge designation type in the tables below:

Year ended 31 March 2022	Fair value hedges of foreign currency and interest rate risk £m	Cash flow hedges of foreign currency and interest rate risk £m	Cash flow hedges of foreign currency risk £m	Net investment hedges £m
Consolidated statement of comprehensive income				
Net gains/(losses) in respect of:				
Cash flow hedges	—	(103)	(1)	—
Cost of hedging	(7)	16	—	(7)
Transferred to profit or loss in respect of:				
Cash flow hedges	—	43	—	—
Cost of hedging	1	—	—	(2)
Consolidated statement of changes in equity				
Other equity reserves – cost of hedging balances	(15)	(16)	—	(3)
Consolidated statement of financial position				
Derivatives – carrying value of hedging instruments ¹				
Assets – current	—	—	1	10
Assets – non-current	49	67	1	82
Liabilities – current	(21)	(22)	(37)	(16)
Liabilities – non-current	(310)	(303)	(8)	—
Profiles of the significant timing, price and rate information of hedging instruments				
Maturity range	Jul 2022 – Sep 2044	Jun 2022 – Nov 2040	Apr 2022 – Feb 2027	Sep 2022 – Sep 2027
Spot foreign exchange range:				
GBP:USD	n/a	1.30 – 1.66	1.34 – 1.41	1.22 – 1.34
GBP:EUR	1.11 – 1.24	1.08 – 1.24	1.04 – 1.19	1.18
EUR:USD	1.13 – 1.17	1.13 – 1.15	n/a	n/a
Interest rate range:				
GBP	SONIA +84bps/+374bps	0.976% – 7.410%	n/a	n/a
USD	LIBOR +68bps/+115bps	2.095% – 3.864%	n/a	n/a

1. The use of derivatives may entail a derivative transaction qualifying for more than one hedge type designation under IFRS 9. Therefore, the derivative amounts in the table above are grossed up by hedge type, whereas they are presented net at an instrument level in the statement of financial position.

Notes to the consolidated financial statements continued

32. Financial risk management continued

(e) Hedge accounting continued

Year ended 31 March 2021	Fair value hedges of foreign currency and interest rate risk £m	Cash flow hedges of foreign currency and interest rate risk £m	Cash flow hedges of foreign currency risk £m	Net investment hedges £m
Consolidated statement of comprehensive income				
Net losses in respect of:				
Cash flow hedges	—	14	(14)	—
Cost of hedging	(15)	(24)	—	50
Transferred to profit or loss in respect of:				
Cash flow hedges	—	56	—	—
Cost of hedging	1	2	—	—
Consolidated statement of changes in equity				
Other equity reserves – cost of hedging balances	(11)	(30)	—	6
Consolidated statement of financial position				
Derivatives – carrying value of hedging instruments ¹				
Assets – current	—	10	2	5
Assets – non-current	187	59	1	140
Liabilities – current	—	(12)	(24)	(17)
Liabilities – non-current	(113)	(255)	(22)	—
Profiles of the significant timing, price and rate information of hedging instruments				
Maturity range	Jan 2023 – Jan 2043	Sep 2021 – Nov 2040	Apr 2021 – Feb 2027	Mar 2022 – Sep 2027
Spot foreign exchange range:				
GBP:USD	1.64	1.30 – 1.66	1.31 – 1.41	1.22 – 1.40
GBP:EUR	1.11 – 1.24	1.08 – 1.24	1.04 – 1.29	1.15 – 1.16
EUR:USD	1.13 – 1.17	1.13 – 1.14	n/a	n/a
Interest rate range:				
GBP	LIBOR +30bps/+408bps	0.976% – 5.845%	n/a	n/a
USD	LIBOR –68bps/+115bps	2.513% – 3.864%	n/a	n/a

1. The use of derivatives may entail a derivative transaction qualifying for more than one hedge type designation under IFRS 9. Therefore, the derivative amounts in the table above are grossed up by hedge type, whereas they are presented net at an instrument level in the statement of financial position.

32. Financial risk management continued

(e) Hedge accounting continued

The following tables show the effects of hedge accounting on financial position and year-to-date performance for each type of hedge. These tables also present notional values of hedging instruments (and equal hedged exposures) impacted by IFRS 9 Interest Rate Benchmark Reform amendments.

(i) Fair value hedges of foreign currency and interest rate risk on recognised borrowings:

As at 31 March 2022		Balance of fair value hedge adjustments in borrowings		Change in value used for calculating ineffectiveness		
Hedge type	Hedging instrument notional £m	Continuing hedges £m	Discontinued hedges £m	Hedged item £m	Hedging instrument £m	Hedge ineffectiveness £m
Foreign currency and interest rate risk on borrowings ^{1,2}	(3,362)	437	(55)	340	(301)	39

1. The carrying value of the hedged borrowings is £2,966 million, of which £nil is current and £2,966 million is non-current.

2. Included within the hedging instrument notional balance is £2,556 million impacted by Interest Rate Benchmark Reform amendments with £806 million still to be transitioned.

As at 31 March 2021		Balance of fair value hedge adjustments in borrowings		Change in value used for calculating ineffectiveness		
Hedge type	Hedging instrument notional £m	Continuing hedges £m	Discontinued hedges £m	Hedged item £m	Hedging instrument £m	Hedge ineffectiveness £m
Foreign currency and interest rate risk on borrowings ^{1,2}	(2,755)	121	(85)	153	(127)	26

1. The carrying value of the hedged borrowings was £2,714 million, of which £nil was current and £2,714 million was non-current.

2. Included within the hedging instrument notional balance was £2,679 million impacted by Interest Rate Benchmark Reform amendments.

(ii) Cash flow hedges of foreign currency and interest rate risk:

As at 31 March 2022		Balance in cash flow hedge reserve		Change in value used for calculating ineffectiveness		
Hedge type	Hedging instrument notional £m	Continuing hedges £m	Discontinued hedges £m	Hedged item £m	Hedging instrument £m	Hedge ineffectiveness £m
Foreign currency and interest rate risk on borrowings ¹	(6,287)	(48)	—	74	(74)	—
Foreign currency risk on forecasted cash flows	(835)	(40)	1	18	(18)	—

1. Included within the hedging instrument notional balance is £100 million impacted by Interest Rate Benchmark Reform amendments.

As at 31 March 2021		Balance in cash flow hedge reserve		Change in value used for calculating ineffectiveness		
Hedge type	Hedging instrument notional £m	Continuing hedges £m	Discontinued hedges £m	Hedged item £m	Hedging instrument £m	Hedge ineffectiveness £m
Foreign currency and interest rate risk on borrowings ¹	(4,884)	(11)	(6)	(16)	16	—
Foreign currency risk on forecasted cash flows	(988)	(31)	3	17	(17)	—

1. Included within the hedging instrument notional balance was £176 million impacted by Interest Rate Benchmark Reform amendments.

(iii) Net investment hedges of foreign currency risk:

As at 31 March 2022		Balance in translation reserve		Change in value used for calculating ineffectiveness		
Hedge type	Hedging instrument notional £m	Continuing hedges £m	Discontinued hedges £m	Hedged item £m	Hedging instrument £m	Hedge ineffectiveness £m
Currency risk on foreign operations ¹	(3,489)	(125)	(2,643)	125	(125)	—

1. Included within the hedging instrument notional balance is £nil impacted by Interest Rate Benchmark Reform amendments.

As at 31 March 2021		Balance in translation reserve		Change in value used for calculating ineffectiveness		
Hedge type	Hedging instrument notional £m	Continuing hedges £m	Discontinued hedges £m	Hedged item £m	Hedging instrument £m	Hedge ineffectiveness £m
Currency risk on foreign operations ¹	(2,786)	183	(2,826)	(183)	183	—

1. Included within the hedging instrument notional balance was £nil impacted by Interest Rate Benchmark Reform amendments.

32. Financial risk management continued

(f) Commodity price risk

We purchase electricity and gas to supply our customers in the US and to meet our own energy needs. Substantially all our costs of purchasing electricity and gas for supply to customers are recoverable at an amount equal to cost. The timing of recovery of these costs can vary between financial periods leading to an under- or over-recovery within any particular year that can lead to large fluctuations in the income statement. We follow approved policies to manage price and supply risks for our commodity activities.

Our energy procurement risk management policy and delegations of authority govern our US commodity trading activities for energy transactions. The purpose of this policy is to ensure we transact within pre-defined risk parameters and only in the physical and financial markets where we or our customers have a physical market requirement. In addition, state regulators require National Grid to manage commodity risk and cost volatility prudently through diversified pricing strategies. In some jurisdictions we are required to file a plan outlining our strategy to be approved by regulators. In certain cases, we might receive guidance with regard to specific hedging limits.

Energy purchase contracts for the forward purchase of electricity or gas that are used to satisfy physical delivery requirements to customers, or for energy that the Group uses itself, meet the expected purchase or usage requirements of IFRS 9. They are, therefore, not recognised in the financial statements until they are realised. Disclosure of commitments under such contracts is made in note 30.

US states have introduced a variety of legislative requirements with the aim of increasing the proportion of our electricity that is derived from renewable or other forms of clean energy. Annual compliance filings regarding the level of Renewable Energy Certificates (and other similar environmental certificates) are required by the relevant department of utilities. In response to the legislative requirements, National Grid has entered into long-term, typically fixed-price, energy supply contracts to purchase both renewable energy and environmental certificates. We are entitled to recover all costs incurred under these contracts through customer billing.

Under IFRS, where these supply contracts are not accounted for as leases, they are considered to comprise two components, being a forward purchase of power at spot prices, and a forward purchase of environmental certificates at a variable price (being the contract price less the spot power price). With respect to our current contracts, neither of these components meets the requirement to be accounted for as a derivative. The environmental certificates are currently required for compliance purposes, and at present there are no liquid markets for these attributes. Accordingly, this component meets the expected purchase or usage exemption of IFRS 9. We expect to enter into an increasing number of these contracts, in order to meet our compliance requirements in the short to medium term. In future, if and when liquid markets develop, and to the extent that we are in receipt of environmental certificates in excess of our required levels, this exemption may cease to apply, and we may be required to account for forward purchase commitments for environmental certificates as derivatives at fair value through profit and loss.

32. Financial risk management continued

(g) Fair value analysis

Included in the statement of financial position are financial instruments which are measured at fair value. These fair values can be categorised into hierarchy levels that are representative of the inputs used in measuring the fair value. The best evidence of fair value is a quoted price in an actively traded market. In the event that the market for a financial instrument is not active, a valuation technique is used.

	2022				2021			
	Level 1 £m	Level 2 £m	Level 3 £m	Total £m	Level 1 £m	Level 2 £m	Level 3 £m	Total £m
<i>Assets</i>								
Investments held at FVTPL	2,292	—	417	2,709	1,768	—	240	2,008
Investments held at FVOCI ¹	—	413	—	413	99	416	—	515
Financing derivatives	—	298	—	298	—	942	—	942
Commodity contract derivatives	—	238	51	289	—	12	45	57
	2,292	949	468	3,709	1,867	1,370	285	3,522
<i>Liabilities</i>								
Financing derivatives	—	(804)	(187)	(991)	—	(584)	(183)	(767)
Commodity contract derivatives	—	(15)	(7)	(22)	—	(75)	(57)	(132)
Liabilities held at fair value	—	—	—	—	(682)	—	—	(682)
Contingent consideration ²	—	—	(41)	(41)	—	—	(57)	(57)
	—	(819)	(235)	(1,054)	(682)	(659)	(297)	(1,638)
	2,292	130	233	2,655	1,185	711	(12)	1,884

1. Investments held includes instruments which meet the criteria of IFRS 9 or IAS 19.

2. Contingent consideration relates to the acquisition of National Grid Renewables.

Level 1:	Financial instruments with quoted prices for identical instruments in active markets.
Level 2:	Financial instruments with quoted prices for similar instruments in active markets or quoted prices for identical or similar instruments in inactive markets, and financial instruments valued using models where all significant inputs are based directly or indirectly on observable market data.
Level 3:	Financial instruments valued using valuation techniques where one or more significant inputs are based on unobservable market data.

Our Level 1 financial investments and liabilities held at fair value are valued using quoted prices from liquid markets.

Our Level 2 financial investments held at fair value are valued using quoted prices for similar instruments in active markets, or quoted prices for identical or similar instruments in inactive markets. Alternatively, they are valued using models where all significant inputs are based directly or indirectly on observable market data.

Our Level 2 financing derivatives include cross-currency, interest rate and foreign exchange derivatives. We value these by discounting all future cash flows by externally sourced market yield curves at the reporting date, taking into account the credit quality of both parties. These derivatives can be priced using liquidly traded interest rate curves and foreign exchange rates, and therefore we classify our vanilla trades as Level 2 under the IFRS 13 framework.

Our Level 2 commodity contract derivatives include over-the-counter gas and power swaps as well as forward physical gas deals. We value our contracts based on market data obtained from the New York Mercantile Exchange (NYMEX) and the Intercontinental Exchange (ICE) where monthly prices are available. We discount based on externally sourced market yield curves at the reporting date, taking into account the credit quality of both parties and liquidity in the market. Our commodity contracts can be priced using liquidly traded swaps. Therefore, we classify our vanilla trades as Level 2 under the IFRS 13 framework.

Our Level 3 financing derivatives include inflation-linked swaps, where the market is illiquid. In valuing these instruments, we use in-house valuation models and obtain external valuations to support each reported fair value.

Our Level 3 commodity contract derivatives primarily consist of our forward purchases of electricity and gas that we value using proprietary models. Derivatives are classified as Level 3 where significant inputs into the valuation technique are neither directly nor indirectly observable (including our own data, which are adjusted, if necessary, to reflect the assumptions market participants would use in the circumstances).

Our Level 3 investments include equity instruments accounted for at fair value through profit and loss. These equity holdings are part of our corporate venture capital portfolio held by National Grid Partners and comprise a series of small unquoted investments where prices or valuation inputs are unobservable. These investments are either recently acquired or there have been recent funding rounds with third parties and therefore the valuation is based on the latest transaction price and any subsequent investment-specific adjustments.

Our Level 3 investments also include our investment in Sunrun Neptune 2016 LLC, which is accounted for at fair value through profit and loss. The investment is fair valued by discounting expected cash flows using a weighted average cost of capital specific to Sunrun Neptune 2016 LLC.

In light of the current ongoing impact of the COVID-19 pandemic, the valuations of certain assets and liabilities can be more subjective. While there have been significant movements in market indices, we are satisfied that there has been no significant impact on the fair values of our financial instruments measured at fair value, and that any impact is reflected in the fair values in the table above.

Notes to the consolidated financial statements continued

32. Financial risk management continued

(g) Fair value analysis continued

The changes in value of our Level 3 financial instruments are as follows:

	Financing derivatives		Commodity contract derivatives		Other ³		Total	
	2022 £m	2021 £m	2022 £m	2021 £m	2022 £m	2021 £m	2022 £m	2021 £m
At 1 April	(183)	(235)	(12)	2	183	137	(12)	(96)
Net gains/(losses) for the year ^{1,2}	(4)	51	56	(16)	102	(2)	154	33
Purchases	—	—	17	(1)	93	32	110	31
Settlements	—	1	(17)	(1)	(2)	16	(19)	16
Reclassification to held for sale (note 10)	—	—	—	4	—	—	—	4
At 31 March	(187)	(183)	44	(12)	376	183	233	(12)

1. Loss of £4 million (2021: £51 million gain) is attributable to derivative financial instruments held at the end of the reporting period and has been recognised in finance costs in the income statement.
2. Gain of £27 million (2021: £46 million loss) is attributable to commodity contract derivative financial instruments held at the end of the reporting period.
3. Other comprises our investments in Sunrun Neptune 2016 LLC and the investments made by National Grid Partners, which are accounted for at fair value through profit and loss as well as the contingent consideration arising from the acquisition of National Grid Renewables.

The impacts on a post-tax basis of reasonably possible changes in significant Level 3 assumptions are as follows:

	Financing derivatives		Commodity contract derivatives		Other ³	
	2022 £m	2021 £m	2022 £m	2021 £m	2022 £m	2021 £m
10% increase in commodity prices ¹	—	—	9	3	—	—
10% decrease in commodity prices ¹	—	—	(8)	(1)	—	—
+10% market area price change	—	—	—	(4)	—	—
-10% market area price change	—	—	—	7	—	—
+20 basis points change in Limited Price Inflation (LPI) market curve ²	(84)	(83)	—	—	—	—
-20 basis points change in LPI market curve ²	82	83	—	—	—	—
+50 basis points change in discount rate	—	—	—	—	(10)	(5)
-50 basis points change in discount rate	—	—	—	—	10	5

1. Level 3 commodity price sensitivity is included within the sensitivity analysis disclosed in note 35.
2. A reasonably possible change in assumption of other Level 3 derivative financial instruments is unlikely to result in a material change in fair values.
3. The investments acquired in the period were on market terms, and sensitivity is considered insignificant at 31 March 2022.

The impacts disclosed above were considered on a contract-by-contract basis with the most significant unobservable inputs identified.

32. Financial risk management continued

(h) Capital risk management

The capital structure of the Group consists of shareholders' equity, as disclosed in the consolidated statement of changes in equity, and net debt (note 29). National Grid's objectives when managing capital are: to safeguard our ability to continue as a going concern; to remain within regulatory constraints of our regulated operating companies; and to maintain an efficient mix of debt and equity funding thus achieving an optimal capital structure and cost of capital. We regularly review and manage the capital structure as appropriate in order to achieve these objectives.

Maintaining appropriate credit ratings for our operating and holding companies is an important aspect of our capital risk management strategy and balance sheet efficiency. We monitor our balance sheet efficiency using several metrics including retained cash flow/net debt (RCF/debt), regulatory gearing and interest cover. For the year ended 31 March 2022, these metrics for the Group were 8.9% (2021: 6.6%), 81% (2021: 65%) and 4.7x (2021: 4.5x), respectively – see pages 37 and 273 – 274. As expected, regulatory gearing at 31 March 2022 was higher than our long-run projections due to the fact that we are only part way through the transactions that make up our strategic pivot. Once the strategic pivot is complete, we expect to continue to generate strong cash flows and for regulatory gearing to decrease and to settle at slightly above 70%. As a result, and combined with the benefit of our hybrid debt, we expect gearing levels, and the other standard metrics we monitor, to be consistent with our current, strong investment grade, overall Group credit rating.

We monitor the RAV gearing within National Grid Electricity Transmission plc (NGET), WPD and the regulated transmission business within National Grid Gas plc (NGG) which became a discontinued operation in the period (see note 10). This is calculated as net debt expressed as a percentage of RAV, and indicates the level of debt employed to fund our UK regulated businesses. It is compared with the level of RAV gearing indicated by Ofgem as being appropriate for these businesses, at around 55% to 65%. We also monitor net debt as a percentage of rate base for our US operating companies, comparing this with the allowed rate base gearing inherent within each of our agreed rate plans, typically around 50%.

As part of the Group's debt financing arrangements, we are subject to a number of financial covenants associated with existing borrowings and facility arrangements:

- the requirement to maintain subsidiary indebtedness relating to non-US and US subsidiaries (excluding National Grid North America Inc.) limiting the total indebtedness in absolute terms to £35 billion for non-US Subsidiaries and \$35 billion for US subsidiaries. As at 31 March 2022, headroom on these covenants exceeds £10 billion;
- The Articles of Association of National Grid plc limit Group total borrowings less cash and short-term investments in absolute terms to £55 billion. As at 31 March 2022 headroom on the limit exceeds £10 billion;
- Interest cover ratios relating to the WPD companies within the Group requiring a consolidated EBITDA to interest payable of not less than 3:1. These covenants range in outturn from 5:1 to 6:1 at the reporting date; and
- Net debt to RAV gearing covenants limiting gearing to 85% of RAV for each WPD operating company. As at 31 March 2022, actual gearing of less than 60% is reported for all impacted companies.

We consider the risk of breaching these covenants as remote given the level of headroom present.

The majority of our regulated operating companies in the US and the UK are subject to certain restrictions on the payment of dividends by administrative order, contract and/or licence. The types of restrictions that a company may have that would prevent a dividend being declared or paid unless they are met include:

- the requirement to notify by certification to regulators and certain lenders;
- dividends must be approved in advance by the relevant US state regulatory commission;
- the subsidiary must have one or two recognised rating agency credit ratings of at least investment grade depending on contractual requirements;
- dividends must be limited to cumulative retained earnings, including pre-acquisition retained earnings and in line with relevant company legislation;
- the securities of National Grid plc must maintain an investment grade credit rating, and if that rating is the lowest investment grade bond rating it cannot have a negative watch/review for downgrade notice by a credit rating agency;
- the subsidiary must not carry out any activities other than those permitted by the licences;
- the subsidiary must not create any cross-default obligations or give or receive any intra-group cross-subsidies;
- the percentage of equity compared with total capital of the subsidiary must remain above certain levels; and
- in the case of WPD, the percentage of debt compared with total RAV of the subsidiary must remain below 85%.

These restrictions are subject to alteration in the US as and when a new rate case or rate plan is agreed with the relevant regulatory bodies for each operating company and, in the UK, through the normal licence review process.

As most of our business is regulated, at 31 March 2022 the majority of our net assets are subject to some of the restrictions noted above. These restrictions are not considered to be significantly onerous, nor do we currently expect they will prevent the planned payment of dividends in future in line with our dividend policy.

All the above requirements are monitored on a regular basis in order to ensure compliance. The Group has complied with all externally imposed capital requirements to which it is subject.

Notes to the consolidated financial statements continued

33. Borrowing facilities

To support our liquidity requirements and provide backup to commercial paper and other borrowings, we agree committed credit facilities with financial institutions over and above the value of borrowings that may be required. These committed credit facilities are undrawn.

At 31 March 2022, we had bilateral committed credit facilities of £5,978 million (2021: £5,410 million). In addition, we had committed credit facilities from syndicates of banks of £936 million at 31 March 2022 (2021: £115 million). An analysis of the maturity of these undrawn committed facilities is shown below:

	2022	2021
	£m	£m
Undrawn committed borrowing facilities expiring:		
Less than 1 year	—	—
In 1 to 2 years	936	1,668
In 2 to 3 years	4,373	534
In 3 to 4 years	1,605	1,718
In 4 to 5 years	—	1,605
More than 5 years	—	—
	6,914	5,525

Of the unused facilities at 31 March 2022, £6,823 million (2021: £5,410 million) is available for liquidity purposes, while £91 million (2021: £115 million) is available as backup to specific US borrowings. The increase in total facility positions reflects the increased size of the Group following the acquisition of WPD. £845 million of the undrawn syndicated facilities due to mature in one to two years were renegotiated between 1 April and 19 May 2022, with no uplift in the amount and a new expiry date of May 2025.

Included in the table above within three to four years is a facility of £350 million related to National Grid Gas plc, a company treated as held for sale.

In addition, we have the following facilities which are not included in the table above:

- for the separately regulated business of National Grid Electricity System Operator Limited, the Group has a facility of £550 million (2021: £550 million). This facility is not available as Group general liquidity support;
- the Group continues to have access to Export Credit Agreements (ECAs) funding specific projects totalling £1,396 million (2021: £1,345 million), of which £489 million (2021: £446 million) is undrawn; and
- the Group entered into a loan facility in relation to the acquisition of WPD (see note 37) of £8,250 million (31 March 2021: £8,250 million) to finance the consideration, of which £8,179 million has been drawn since the year end with no further drawdown available (31 March 2021: undrawn). The bridge facility allows for the extension of the facility maturity date up to September 2023 but includes a requirement that the proceeds of the planned sales of NECO and the UK Gas Transmission business are applied to repay the facility.

34. Subsidiary undertakings, joint ventures and associates

While we present consolidated results in these financial statements as if we were one company, our legal structure is such that there are a number of different operating and holding companies that contribute to the overall result. This structure has evolved through acquisitions as well as regulatory requirements to have certain activities within separate legal entities.

Subsidiary undertakings

A list of the Group's subsidiaries as at 31 March 2022 is given below. The entire share capital of subsidiaries is held within the Group except where the Group's ownership percentages are shown. These percentages give the Group's ultimate interest and therefore allow for the situation where subsidiaries are owned by partly owned intermediate subsidiaries. Where subsidiaries have different classes of shares, this is largely for historical reasons, and the effective percentage holdings given represent both the Group's voting rights and equity holding. Shares in National Grid (US) Holdings Limited, National Grid (US) Investments 2 Limited, National Grid Hong Kong Limited, National Grid Luxembourg SARL and NGG Finance plc are held directly by National Grid plc. All other holdings in subsidiaries are owned by other subsidiaries within the Group. All subsidiaries are consolidated in the Group's financial statements.

Principal Group companies are identified in **bold**. These companies are incorporated and principally operate in the countries under which they are shown. All entities incorporated in the United States are taxed in the United States on their worldwide income other than where indicated in the footnotes below. Other entities are tax resident in their jurisdiction of incorporation other than where indicated in the footnotes below.

Incorporated in England and Wales

Registered office: 1–3 Strand, London WC2N 5EH, UK (unless stated otherwise in footnotes).

Birch Sites Limited	National Grid Twenty Eight Limited
Carbon Sentinel Limited	National Grid Twenty Seven Limited
Central Networks Trustees Limited ¹	National Grid Twenty Three Limited ²
Droylsden Metering Services Limited	National Grid UK Limited
Gridcom Limited	National Grid UK Pension Services Limited
Hyder Profit Sharing Trustees Limited ¹	National Grid Ventures Limited
Icelink Interconnector Limited	National Grid Viking Link Limited
Kelston Properties 2 Limited ¹	National Grid William Link Limited
Lattice Group Employee Benefit Trust Limited	NG Nominees Limited
Lattice Group Limited	NGC Employee Shares Trustee Limited
Lattice Group Trustees Limited	NGG Finance plc
Meter Operator Services Limited ¹	Ngrid Intellectual Property Limited
Meter Reading Services Limited ¹	NGT Two Limited
Natgrid Limited	Port Greenwich Limited
NatGrid One Limited ²	Sheet Road Management Company Limited (51%) ³
NatgridTW1 Limited ²	South Wales Electricity Share Scheme Trustees Limited ¹
National Grid (US) Holdings Limited²	South Western Helicopters Limited ¹
National Grid (US) Investments 2 Limited ²	Supergrid Electricity Limited
National Grid (US) Investments 4 Limited²	Supergrid Energy Transmission Limited
National Grid (US) Partner 1 Limited²	Supergrid Limited
National Grid Carbon Limited	Thamesport Interchange Limited
National Grid Commercial Holdings Limited	The National Grid Group Quest Trustee Company Limited
National Grid Distributed Energy Limited	The National Grid YouPlan Trustee Limited
National Grid Electricity Group Trustee Limited	Transco Limited
National Grid Electricity System Operator Limited	Warwick Technology Park Management Company (No 2) Limited (60.56%) ⁴
National Grid Electricity Transmission plc	Western Power Distribution (East Midlands) plc¹
National Grid Energy Metering Limited	Western Power Distribution (South Wales) plc¹
National Grid Gas Holdings Limited	Western Power Distribution (South West) plc¹
National Grid Gas plc	Western Power Distribution (West Midlands) plc¹
National Grid Grain LNG Limited	Western Power Distribution Holding Company Limited ¹
National Grid Holdings Limited²	Western Power Distribution Investments Limited¹
National Grid Holdings One plc	Western Power Distribution plc¹
National Grid Hydrogen Limited	Western Power Generation Limited ¹
National Grid IFA 2 Limited	Western Power Pension Trustee Limited ¹
National Grid Interconnector Holdings Limited	WPD Distribution Network Holdings Limited ¹
National Grid Interconnectors Limited	WPD Investment Holdings limited ¹
National Grid International Limited ²	WPD Island Limited ¹
National Grid Metering Limited	WPD Limited ¹
National Grid North Sea Link Limited	WPD Midlands Limited ¹
National Grid Offshore Limited	WPD Midlands Networks Contracting Limited ¹
National Grid Partners Limited	WPD Property Investments Limited ¹
National Grid Plus Limited	WPD Share Scheme Trustees Limited ¹
National Grid Property Holdings Limited	WPD Smart Metering Limited ¹
National Grid Smart Limited	WPD Telecoms Limited ¹
National Grid Ten	WPD WEM Holdings Limited ¹
National Grid Thirty Six Limited	WPD WEM Limited ¹
National Grid Twelve Limited ²	WW Share Scheme Trustees Limited ¹

1. Registered office: Avonbank, Feeder Road, Bristol, Avon, BS2 0TB.

2. Companies where National Grid plc has issued guarantees over the liabilities of the companies as at 31 March 2022 and for which the companies are taking the exemption from the requirements of an audit for their individual financial statements as permitted by section 479A of the Companies Act.

3. Registered office: Netley Old Hall Farm, Dorrington, Shrewsbury, United Kingdom, SY5 7JY.

4. Registered office: Shire Hall, PO Box 9, Warwick CV34 4RL, UK.

* In process of strike-off.

Notes to the consolidated financial statements continued

34. Subsidiary undertakings, joint ventures and associates continued

Subsidiary undertakings continued

Incorporated in the US

Registered office: National Registered Agents, Inc., 1209 Orange Street, Wilmington, DE 19801, USA (unless stated otherwise in footnotes).

Apple River Solar, LLC
Armenia Solar, LLC
Ashland Solar, LLC
Athens Solar, LLC
Autauga Solar, LLC
Banner Solar, LLC
Bazile Creek Wind Farm, LLC
Bee Hollow Solar, LLC
Bell Plaine Solar, LLC
Benevolent Solar, LLC
Blaze Solar, LLC¹
Blevins Solar, LLC
Blue Ridge Wind, LLC
Blue Spring Solar, LLC
Blues Solar, LLC
Blewater Solar, LLC
Boone Solar, LLC
Boston Gas Company²
Bridges Solar, LLC
British Transco Capital, Inc.³
British Transco Finance, Inc.³
Brock Solar, LLC
Broken Bridge Corp.⁴
Brook Trout Solar, LLC
Burley Solar, LLC
Burlington Solar, LLC
Burr Ridge Wind, LLC
Cage Ranch Solar II, LLC
Cage Ranch Solar III, LLC
Cage Ranch Solar, LLC
Caldwell Solar II, LLC
Caldwell Solar, LLC
Canby Solar, LLC
Cass Wind Farm, LLC
Cattle Ridge Wind Farm 2, LLC
Cedar Grove Solar, LLC
Centennial Solar, LLC
Clay Boswell Solar, LLC
Clear Creek Solar, LLC
Clermont Solar, LLC
Clinton County Solar, LLC
Coles Solar, LLC
Compass Prairie Wind, LLC
Coneflower Solar, LLC⁵
Conestoga Wind, LLC
Copperhead Solar, LLC
Creekview Solar, LLC
Crocker Wind Farm 2, LLC
Dahlia Solar, LLC⁵
Dakota Hills Wind Farm, LLC
Day Lily Solar, LLC⁵
Deatsville Solar, LLC
Deer Trail Solar, LLC
Dodson Creek Solar, LLC⁶
Donnellson Solar, LLC
Elburn Solar, LLC
Eldena Solar, LLC
Elk Creek Solar 2, LLC
Elk Creek Solar, LLC
EUA Energy Investment Corporation²
Exie Solar, LLC
Falls City Solar, LLC
Fayette Solar, LLC⁷
Fillmore County Solar Project, LLC
Firstview Wind Farm, LLC
Fort Solar, LLC
Front Range Wind Farm, LLC
Gardenia Solar, LLC⁵
Golden Solar, LLC
Goldendale Solar, LLC
Goldenrod Wind Farm, LLC
Goldfinch Solar, LLC
Grand Junction Solar, LLC
Granite State Power Link LLC³
Grant Solar 2, LLC
Grant Solar, LLC
Grayson Solar, LLC
Greenbrier Creek Solar, LLC
Greensky Solar, LLC

Greenwood Solar, LLC
Grid NY LLC⁸
Grindstone Wind Farm, LLC⁹
Hale County Solar, LLC
Hansford Energy Storage, LLC
Harmony Solar ND 2, LLC
Harmony Solar ND, LLC
Harrington Solar, LLC
Hartley Solar, LLC
Hearth Solar, LLC
Hill River Solar, LLC
Honeybee Solar, LLC
Hoosier Solar, LLC
Hoskins Solar, LLC
Illumination Solar, LLC
Innovation Solar, LLC
Itasca Energy Development, LLC⁵
Itasca Energy Services, LLC
Jack Rabbit Wind, LLC
Jackson County Solar, LLC
Junction Solar, LLC
KeySpan CI Midstream Limited³
KeySpan Energy Corporation⁹
KeySpan Energy Services Inc.³
KeySpan Gas East Corporation⁸
KeySpan International Corporation³
KeySpan MHK, Inc.³
KeySpan Midstream Inc.³
KeySpan Plumbing Solutions, Inc.⁸
Knox Solar, LLC
KSI Contracting, LLC³
KSI Electrical, LLC³
KSI Mechanical, LLC³
Lake Charlotte Solar, LLC
Lake Iris Solar, LLC
Lakeside Solar, LLC
Land Management & Development, Inc.⁸
Landwest, Inc.⁸
Lansing Solar, LLC
Leola Wind Farm, LLC
Liberty Solar, LLC
Lilac Solar, LLC⁵
Livingston County Solar, LLC
Long Mount Solar, LLC
Lordsburg Solar, LLC
Louisa Solar, LLC
Lowlands Solar, LLC
Lydia Solar, LLC
Marion County Solar, LLC
Massachusetts Electric Company²
Maverick Wind Farm, LLC
Meadowlands Solar, LLC
Metrowest Realty LLC³
Miller Creek Solar, LLC
Millers Ferry Solar, LLC
Morgan County Solar, LLC
Morning Glory Solar, LLC⁵
Muddy Creek Solar, LLC
Mustang Ridge Wind Farm, LLC
Mystic Steamship Corporation⁶
Nantucket Electric Company²
National Grid Development Holdings Corp.³
National Grid Electric Services LLC⁸
National Grid Energy Management LLC³
National Grid Energy Services LLC³
National Grid Energy Trading Services LLC⁸
National Grid Engineering & Survey Inc.⁸
National Grid Generation LLC⁸
National Grid Generation Ventures LLC⁸
National Grid Glenwood Energy Center, LLC³
National Grid IGTS Corp.⁸
National Grid Insurance USA Ltd¹⁰
National Grid Islander East Pipeline LLC³
National Grid LNG GP LLC³
National Grid LNG LLC³
National Grid LNG LP LLC³
National Grid Millennium LLC³
National Grid NE Holdings 2 LLC²
National Grid North America Inc.³

34. Subsidiary undertakings, joint ventures and associates continued

Subsidiary undertakings continued

National Grid Partners Inc. ⁹	Regal Solar 2, LLC
National Grid Partners LLC ³	Regal Solar, LLC
National Grid Port Jefferson Energy Center LLC ³	River North Solar, LLC
National Grid Renewables Development, LLC	Robertson Solar, LLC
National Grid Renewables E Wind, LLC ⁵	Rock Ridge Wind Farm, LLC
National Grid Renewables Operations, LLC ³	Rolling Hills Solar, LLC
National Grid Renewables Projects, LLC ⁵	Ross County Solar, LLC ⁶
National Grid Renewables Stutsman, LLC	Royal Solar 2, LLC
National Grid Renewables, LLC ³	Royal Solar, LLC
National Grid Services Inc. ³	Royerton Solar, LLC
National Grid US 6 LLC ^{3,†}	Saginaw Bay Solar, LLC
National Grid US LLC ³	Sandstone Creek Solar 2, LLC
National Grid USA Service Company, Inc. ²	Sandstone Creek Solar, LLC
National Grid USA³	Sapphire Sky Wind Farm, LLC
NEES Energy, Inc. ²	Sherco Solar 2, LLC ⁵
New England Electric Transmission Corporation ⁴	Sherco Solar, LLC ⁵
New England Energy Incorporated ²	Silver City Solar, LLC
New England Hydro Finance Company, Inc. (53.704%) ²	Simpson Solar, LLC
New England Hydro-Transmission Corporation (53.704%) ⁴	Spotlight Solar, LLC
New England Hydro-Transmission Electric Company, Inc. (53.704%) ²	Spring Brook Solar, LLC
New England Power Company²	Spring River Solar, LLC
Newport America Corporation ¹¹	Springfield Solar Farm, LLC
Newton Solar, LLC	Stony Brook Wind, LLC
NG Renewables Energy Marketing, LLC ³	Stony Point Solar, LLC
NG Renewables Energy Services, LLC	Stove Creek Solar, LLC
NGNE LLC ³	Sturgis Solar, LLC
NGV Emerald Energy Venture Holdings, LLC ³	Summit Lake Solar, LLC
NGV OSW Holdings, LLC ³	Sunbeam Solar, LLC
NGV US Distributed Energy Inc. ³	Sunrise Solar, LLC
NGV US Transmission Inc. ³	Sycamore Creek Solar, LLC
NGV US, LLC ³	Thacker Solar, LLC
Niagara Mohawk Energy, Inc. ³	The Brooklyn Union Gas Company⁸
Niagara Mohawk Holdings, Inc.⁸	The Narragansett Electric Company¹¹
Niagara Mohawk Power Corporation⁸	Torchlight Solar, LLC ⁵
Niobrara Wind, LLC	Transgas Inc. ²
NM Properties, Inc. ⁸	Tri-City Solar, LLC
Noble Solar, LLC ¹²	Uintah Solar, LLC
Nordic VOS, LLC	Unbridled Solar, LLC
North East Transmission Co., Inc. ³	Upper Hudson Development Inc. ⁸
North Fork Wind, LLC	Valley Solar, LLC
Northeast Renewable Link LLC ³	Vermont Green Line Devco, LLC (90%) ³
Opinac North America, Inc. ³	Vibrant Solar, LLC
Parklawn Solar, LLC	Virgo Community Solar Gardens, LLC ⁵
Pennington Solar, LLC	Virtue Solar, LLC
Peony Solar, LLC	Vivid Solar, LLC
Philadelphia Coke Co., Inc. ³	Wallowa Solar, LLC
Pierce County Solar, LLC	Wayfinder Group, Inc. ²
Pike County Solar, LLC	Wheatfield Solar, LLC
Pipestone Solar, LLC	White Elm Wind Farm, LLC
Plum Creek Wind Farm 2, LLC	Wild Springs Solar, LLC ⁵
Plum Creek Wind Farm, LLC	Wildcat Ridge Wind Farm, LLC
Port of the Islands North, LLC ⁶	Wildhorse Creek Solar, LLC
Portage Solar, LLC	Willard Solar, LLC
Prairie Oasis Solar, LLC	Williams County Solar, LLC
Prairie Rose Wind 2, LLC ⁵	Wiregrass Solar, LLC
Prosperity Wind Farm 2, LLC	Woodlands Solar, LLC
Prosperity Wind Farm, LLC	Worthington Solar, LLC
Red Rock Solar SD, LLC	Yellowhammer Solar, LLC
Red Wolf Solar, LLC	Young County Solar, LLC

Notes to the consolidated financial statements continued

34. Subsidiary undertakings, joint ventures and associates continued

Subsidiary undertakings continued

Incorporated in Australia

Registered office: Level 7, 330 Collins Street, Melbourne, VIC 3000, Australia
National Grid Australia Pty Limited

Incorporated in Canada

Registered office: Stewart McKelvey LLP, c/o Charles Reagh, Queen's Marquee, 600-1741 Lower Water Street, Halifax, Nova Scotia, B3J 0J2, Canada
KeySpan Energy Development Co.

Incorporated in Guernsey

Registered office: 1st & 2nd Floors Elizabeth House, Les Ruettes Brayes, St Peter Port, GY1 1EW, Guernsey, Channel Islands

WPD Limited (Guernsey)[†]

Registered office: PO Box 155, Mill Court, La Charroterie, St. Peter Port, Guernsey, GY1 4ET, Guernsey, Channel Islands

Aztec Insurance Limited

Incorporated in Hong Kong

Registered office: Level 54, Hopewell Centre, 183 Queen's Road East, Hong Kong
National Grid Hong Kong Limited[†]

Incorporated in the Isle of Man

Registered office: Third Floor, St George's Court, Upper Church Street, Douglas, IM1 1EE, Isle of Man, UK

National Grid Insurance Company (Isle of Man) Limited
NGT Holding Company (Isle of Man) Limited[†]

Incorporated in Luxembourg

Registered office: 412F, Route d'Esch, L-2086, Luxembourg, Grand Duchy of Luxembourg

National Grid Luxembourg SARL

Incorporated in the Netherlands

Registered office: Westblaak 89, 3012 KG Rotterdam, PO Box 21153, 3001 AD, Rotterdam, Netherlands

British Transco International Finance B.V.

Incorporated in the Republic of Ireland

Registered office: c/o Moore Stephens Nathans, Third Floor, Ulysses House, 23/24 Foley Street, Dublin, D01 W2T2, Ireland

National Grid Company (Ireland) Designated Activity Company*

1. Registered office: National Registered Agents, Inc., 160 Greentree Drive, Suite 101, Dover DE 19904, USA.
2. Registered office: Corporation Service Company, 84 State Street, Boston MA 02109, USA.
3. Registered office: Corporation Service Company, 251 Little Falls Drive, Wilmington DE 19808, USA.
4. Registered office: Corporation Service Company, 10 Ferry Street, Suite 313, Concord NH 03301, USA.
5. Registered office: National Grid Renewables Development, LLC, 8400 Normandale Lake Blvd. Suite 1200, Bloomington, MN 55437, USA.
6. Registered office: The Corporation Trust Company, Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware, 19801, USA.
7. Registered office: 60 Mine Lake Court, Suite 200, Raleigh, Wake County, NC 27615, USA.
8. Registered office: Corporation Service Company, 80 State Street, Albany NY 12207, USA.
9. Registered office: National Registered Agents, Inc., 30600 Telegraph Road, Suite 2345, Bingham Farms, MI 48025-5720, USA.
10. Registered office: One MetroTech Center, Brooklyn NY 11201, USA.
11. Registered office: Corporation Service Company, 222 Jefferson Boulevard, Suite 200, Warwick RI 02888, USA.
12. Registered office: National Registered Agents, Inc., 1999 Bryan Street, Dallas, Dallas County TX 75201, USA.

* In liquidation.

[†] Entity is tax resident in the United Kingdom.

34. Subsidiary undertakings, joint ventures and associates continued

Joint ventures

A list of the Group's joint ventures as at 31 March 2022 is given below. All joint ventures are included in the Group's financial statements using the equity method of accounting. Principal joint ventures are identified in **bold**.

Incorporated in England and Wales

Registered office: 1–3 Strand, London WC2N 5EH, UK (unless stated otherwise in footnotes).

BritNed Development Limited (50%)*

Joint Radio Company Limited (50%)^{1**}

National Places LLP (50%)²

Nemo Link Limited (50%)

NGET/SPT Upgrades Limited (50%)[†]

Incorporated in the US

Registered office: Corporation Service Company, 251 Little Falls Drive, Wilmington, DE 19808, USA (unless stated otherwise in footnotes).

Bight Wind Holdings, LLC (27.27%)³

Clean Energy Storage Systems LLC (previously Clean Energy Generation, LLC) (50%)

Emerald Energy Venture LLC (51%)

Island Park Energy Center, LLC (50%)

Islander East Pipeline Company, LLC (50%)³

LI Energy Storage System, LLC (50%)

LI Solar Generation, LLC (50%)

Incorporated in France

Registered office: 1 Terrasse Bellini, Tour Initiale, TSA 41000 – 9291, Paris La Defense, CEDEX, France

IFA2 (50%)

Associates

A list of the Group's associates as at 31 March 2022 is given below. Unless otherwise stated, all associates are included in the Group's financial statements using the equity method of accounting. Principal associates are identified in **bold**.

Incorporated in the US

Registered office: Corporation Service Company, 251 Little Falls Drive, Wilmington, DE 19808, USA (unless stated otherwise in footnotes).

Clean Line Energy Partners LLC (32%)³

Connecticut Yankee Atomic Power Company (19.5%)⁴

Direct Global Power, Inc. (26%)³

Energy Impact Fund LP (9.41%)⁵

KHB Venture LLC (33.33%)⁶

Maine Yankee Atomic Power Company (24%)⁷

Millennium Pipeline Company, LLC (26.25%)³

New York Transco LLC (28.3%)⁸

NYSEARCH RMLD, LLC (22.63%)

The Hive IV, LLC (28.2%)³

Yankee Atomic Electric Company (34.5%)⁹

Incorporated in Belgium

Registered office: Avenue de Cortenbergh 71, 1000 Brussels, Belgium

Coreso SA (15.84%)

Other investments

A list of the Group's other investments as at 31 March 2022 is given below.

Incorporated in England and Wales

Registered office: 1 More London Place, London SE1 2AF, UK

Energis plc (33.06%)[‡]

Registered office: Third Floor, Northumberland House, 303–306 High Holborn, London, WC1V 7JZ

Electralink Limited (27.04%)

1. Registered office: Friars House, Manor House Drive, Coventry, CV1 2TE, UK.
2. Registered office: 80 Cheapside, London, EC2V 6EE, UK.
3. Registered office: The Corporation Trust Company, Corporation Trust Center, 1209 Orange Street, Wilmington DE 19801, USA.
4. Registered office: Carla Pizzella, 362 Injun Hollow Road, East Hampton CT 06424-3099, USA.
5. Registered office: Harvard Business Services, Inc., 16192 Coastal Highway, Lewes DE 19958, USA.
6. Registered office: De Maximus Inc., 135 Beaver Street, 4th Floor, Waltham MA 02452, USA.
7. Registered office: Joseph D Fay, 321 Old Ferry Road, Wiscasset ME 04578, USA.
8. Registered office: Corporation Service Company, 80 State Street, Albany NY 12207, USA.
9. Registered office: Karen Sucharzewski, 49 Yankee Road, Rowe MA 01367, USA.

* National Grid Interconnector Holdings Limited owns 284,500,000 €0.20 C Ordinary shares and one £1.00 Ordinary A share.

** National Grid Gas plc owns all £1.00 A Ordinary shares.

† National Grid Electricity Transmission plc owns 50 £1.00 A Ordinary shares.

‡ In administration.

Our interests and activities are held or operated through the subsidiaries, joint arrangements or associates as disclosed above. These interests and activities (and their branches) are established in – and subject to the laws and regulations of – these jurisdictions.

The following UK subsidiaries will take advantage of the audit exemption set out within section 479A of the Companies Act 2006 supported by guarantees issued by National Grid plc over their liabilities for the year ended 31 March 2022:

Company name	Company number
NatGrid One Limited	5521240
Natgrid TW1 Limited	7579324
National Grid Holdings Limited	3096772
National Grid International Limited	2537092
National Grid Twelve Limited	4355616
National Grid Twenty Three Limited	6999009
National Grid (US) Holdings Limited	2630496
National Grid (US) Investments 2 Limited	3784528
National Grid (US) Investments 4 Limited	3867128
National Grid (US) Partner 1 Limited	4314432

Notes to the consolidated financial statements continued

35. Sensitivities

In order to give a clearer picture of the impact on our results or financial position of potential changes in significant estimates and assumptions, the following sensitivities are presented. These sensitivities are based on assumptions and conditions prevailing at the year end and should be used with caution. The effects provided are not necessarily indicative of the actual effects that would be experienced because our actual exposures are constantly changing.

The sensitivities in the tables below show the potential impact in the income statement (and consequential impact on net assets) for a reasonably possible range of different variables each of which have been considered in isolation (i.e. with all other variables remaining constant). There are a number of these sensitivities which are mutually exclusive, and therefore if one were to happen, another would not, meaning a total showing how sensitive our results are to these external factors is not meaningful.

The sensitivities included in the tables below broadly have an equal and opposite effect if the sensitivity increases or decreases by the same amount unless otherwise stated.

(a) Sensitivities on areas of estimation uncertainty

The table below sets out the sensitivity analysis for certain areas of estimation uncertainty set out in note 1F. These estimates are those that have a significant risk of resulting in a material adjustment to the carrying values of assets and liabilities in the next year. Note that the sensitivity analysis for the useful economic lives of our gas network assets is included in note 13.

	2022		2021	
	Income statement £m	Net assets £m	Income statement £m	Net assets £m
Pensions and other post-retirement benefit liabilities (pre-tax) ¹ :				
UK discount rate change of 0.5% ²	12	1,002	4	952
US discount rate change of 0.5% ²	16	650	17	730
UK RPI rate change of 0.5% ³	11	733	3	723
UK long-term rate of increase in salaries change of 0.5%	4	88	1	42
US long-term rate of increase in salaries change of 0.5%	3	41	3	42
UK change of one year to life expectancy at age 65 ⁴	4	635	1	612
US change of one year to life expectancy at age 65	3	444	4	429
Assumed US healthcare cost trend rates change of 1%	24	414	26	437
Environmental provision:				
10% change in estimated future cash flows	188	188	170	170

- The changes shown are a change in the annual pension and other post-retirement benefit service charge and change in the defined benefit obligations.
- A change in the discount rate is likely to occur as a result of changes in bond yields and as such would be expected to be offset to a significant degree by a change in the value of the bond assets held by the plans. In the UK, there would also be a £164 million (2021: £257 million) net assets offset from the buy-in policies, where the accounting value of the buy-in asset is set equal to the associated liabilities.
- The projected impact resulting from a change in RPI reflects the underlying effect on pensions in payment, pensions in deferment and resultant increases in salary assumptions. The buy-in policies would have a £119 million (2021: £190 million) net assets offset to the above.
- In the UK, the buy-in policies and the longevity swap entered into would have a £111 million (2021: £183 million) net assets offset to the above.

Pensions and other post-retirement benefits assumptions

Sensitivities have been prepared to show how the defined benefit obligations and annual service costs could potentially be impacted by changes in the relevant actuarial assumption that were reasonably possible as at 31 March 2022. In preparing sensitivities, the potential impact has been calculated by applying the change to each assumption in isolation and assuming all other assumptions remain unchanged. This is with the exception of RPI in the UK where the corresponding change to increases to pensions in payment, increases to pensions in deferment and increases in salary are recognised.

WPD goodwill impairment assessment

Sensitivities have been performed to show the impact of reasonable changes to key assumptions in the WPD goodwill impairment test. Considering an increase in the pre-tax discount rate of 0.5% (to 5.7%) indicates the estimated value-in-use would be £1,033 million lower than WPD's carrying amount at 31 March 2022, whilst reducing the terminal growth rate to 2% results in the estimated value-in-use equalling WPD's carrying amount at 31 March 2022.

35. Sensitivities continued

(b) Sensitivities on financial instruments

We are further required to show additional sensitivity analysis under IFRS 7 and these are shown separately in the subsequent table due to the additional assumptions that are made in order to produce meaningful sensitivity disclosures.

Our net debt as presented in note 29 is sensitive to changes in market variables, primarily being UK and US interest rates, the UK RPI and the dollar to sterling exchange rate. These impact the valuation of our borrowings, deposits and derivative financial instruments. The analysis illustrates the sensitivity of our financial instruments to reasonably possible changes in these market variables.

The following main assumptions were made in calculating the sensitivity analysis for continuing operations:

- the amount of net debt, the ratio of fixed to floating interest rates of the debt and derivatives portfolio, and the proportion of financial instruments in foreign currencies are all constant and on the basis of the hedge designations in place at 31 March 2022 and 2021 respectively;
- the statement of financial position sensitivity to interest rates relates to items presented at their fair values: derivative financial instruments; our investments measured at FVTPL and FVOCI; and our liability measured at FVTPL. Further debt and other deposits are carried at amortised cost and so their carrying value does not change as interest rates move;
- the sensitivity of interest to movements in interest rates is calculated on net floating rate exposures on debt, deposits and derivative instruments;
- changes in the carrying value of derivatives from movements in interest rates of designated cash flow hedges are assumed to be recorded fully within equity; and
- changes in the carrying value of derivative financial instruments designated as net investment hedges from movements in interest rates are presented in equity as costs of hedging, with a one-year release to the income statement. The impact of movements in the dollar to sterling exchange rate are recorded directly in equity.

	2022		2021	
	Income statement £m	Other equity reserves £m	Income statement £m	Other equity reserves £m
Financial risk (post-tax):				
UK RPI change of 0.5% ¹	18	—	25	—
UK interest rates change of 0.5%	41	134	12	98
US interest rates change of 0.5%	4	8	6	22
US dollar exchange rate change of 10% ²	43	397	44	285

1. Excludes sensitivities to LPI curve. Further details on sensitivities are provided in note 32(g).

2. The other equity reserves impact does not reflect the exchange translation in our US subsidiaries' net assets. It is estimated this would change by £1,670 million (2021: £1,425 million) in the opposite direction if the dollar exchange rate changed by 10%.

Our commodity contract derivatives are sensitive to price risk. Additional sensitivities in respect to commodity price risk and to our derivative fair values are as follows:

	2022		2021	
	Income statement £m	Net assets £m	Income statement £m	Net assets £m
Commodity price risk (post-tax):				
10% increase in commodity prices	53	53	20	20
10% decrease in commodity prices	(54)	(54)	(21)	(21)
Assets and liabilities carried at fair value (post-tax):				
10% fair value change in derivative financial instruments ¹	(55)	(55)	14	14
10% fair value change in commodity contract derivative liabilities	20	20	6	6

1. The effect of a 10% change in fair value assumes no hedge accounting.

Notes to the consolidated financial statements continued

36. Additional disclosures in respect of guaranteed securities

Niagara Mohawk Power Corporation, a wholly owned subsidiary of the Group, has issued preferred shares that are listed on a US national securities exchange and are guaranteed by National Grid plc. This guarantor commits to honour any liabilities should the company issuing the debt have any financial difficulties. In order to provide debt holders with information on the financial stability of the company providing the guarantee, we are required to disclose individual financial information for this company. We have chosen to include this information in the Group financial statements rather than submitting separate stand-alone financial statements.

The following summarised financial information is given in respect of Niagara Mohawk Power Corporation as a result of National Grid plc's guarantee, dated 29 October 2007, of Niagara Mohawk Power Corporation's 3.6% and 3.9% issued preferred shares, which amount to £29 million. National Grid plc's guarantee of Niagara Mohawk Power Corporation's preferred shares is full and unconditional. There are no restrictions on the payment of dividends by Niagara Mohawk Power Corporation or limitations on National Grid plc's guarantee of the preferred shares, and there are no factors that may affect payments to holders of the guaranteed securities.

The following summarised financial information for National Grid plc and Niagara Mohawk Power Corporation is presented on a combined basis and is intended to provide investors with meaningful and comparable financial information, and is provided pursuant to the early adoption of Rule 13-01 of Regulation S-X in lieu of the separate financial statements of Niagara Mohawk Power Corporation.

Summarised financial information is presented, on a combined basis, as at 31 March 2022. The combined amounts are presented under IFRS measurement principles. Intercompany transactions have been eliminated. Investments in other non-issuer and non-guarantor subsidiaries are included at cost, subject to impairment.

Summarised financial information for the year ended 31 March 2022 – IFRS

	National Grid plc and Niagara Mohawk Power Corporation combined £m
Combined statement of financial position	
Non-current loans to other subsidiaries	–
Non-current assets	10,068
Current loans to other subsidiaries	28,525
Current assets	2,431
Current loans from other subsidiaries	(14,512)
Current liabilities	(10,276)
Non-current loans from other subsidiaries	(2,050)
Non-current liabilities	(8,294)
Net assets¹	5,892
Equity	
Combined income statement – continuing operations	
Revenue	2,987
Operating costs	(2,358)
Operating profit	629
Other income from other subsidiaries	2,500
Other income and costs, including taxation	(360)
Profit after tax	2,769

1. Excluded from net assets above are investments in other consolidated subsidiaries with a carrying value of £14,440 million.

37. Acquisitions

Business combinations are accounted for using the acquisition method. The identifiable assets acquired and liabilities assumed are recognised at their fair values at the acquisition date.

Goodwill is initially measured as the excess of the aggregate of the consideration transferred, the amount recognised for any non-controlling interest and the acquisition-date fair values of any previously held interest in the acquiree over the fair value of the identifiable assets acquired and liabilities assumed at the acquisition date.

Acquisition-related costs are expensed as incurred and included within Other operating income and costs.

Acquisition of WPD

On 14 June 2021, National Grid plc acquired 100% of the share capital of PPL WPD Investments Limited (WPD), the holding company of Western Power Distribution plc, which is the UK's largest electricity distribution network operator. The acquisition, along with the two planned disposals disclosed in note 10, strategically pivots National Grid's UK portfolio towards electricity, in order to significantly enhance National Grid's role in the delivery of the UK's net zero targets, given that electricity distribution is expected to see a high level of asset growth as a result of the ongoing energy transition.

The total cash consideration for the transaction was £7.9 billion, all of which was paid upfront, with no further contingent or deferred consideration payable. As a result of the acquisition, one of WPD's existing borrowing facilities became repayable immediately due to a change in control clause within the original borrowing agreement. The borrowing facility was immediately replaced with an intercompany loan of £350 million from National Grid plc. National Grid funded the transaction price and the new intercompany loan by taking out a bridge financing facility (see note 33), that it will commence repaying with the proceeds of the planned disposals.

The fair values of the assets and liabilities following the finalisation of the purchase price allocation are set out below:

	IFRS book value at acquisition £m	Fair value adjustments £m	Fair value £m
<i>Non-current assets</i>			
Property, plant and equipment	14,077	(4,026)	10,051
Other intangible assets	49	1,714	1,763
Pension assets	402	164	566
Other non-current assets	27	—	27
Total non-current assets	14,555	(2,148)	12,407
<i>Current assets</i>			
Trade and other receivables	268	—	268
Financial and other investments	69	—	69
Cash	44	—	44
Other current assets	42	—	42
Total current assets	423	—	423
Total assets	14,978	(2,148)	12,830
<i>Current liabilities</i>			
Borrowings	(730)	—	(730)
Trade and other payables	(531)	48	(483)
Other current liabilities	(35)	—	(35)
Total current liabilities	(1,296)	48	(1,248)
<i>Non-current liabilities</i>			
Borrowings	(5,967)	(1,589)	(7,556)
Deferred tax	(1,013)	224	(789)
Contract liabilities	(2,706)	2,706	—
Other non-current liabilities	(56)	(21)	(77)
Total non-current liabilities	(9,742)	1,320	(8,422)
Total liabilities	(11,038)	1,368	(9,670)
Total identifiable net assets	3,940	(780)	3,160
Goodwill	1,254	3,467	4,721
Total consideration transferred	5,194	2,687	7,881
Satisfied by:			
Cash consideration			7,881
Total consideration transferred			7,881

Notes to the consolidated financial statements continued

37. Acquisitions continued

The goodwill arising from the acquisition represents the future expected growth in the WPD business, the benefits that are expected to be achieved as a result of the combination of the two businesses and the expertise of the management team acquired. No component of goodwill qualifies for recognition as a separate tangible or intangible asset. The goodwill is not deductible for tax purposes and at the acquisition date, there were no material contingent liabilities.

The fair value of trade and other receivables of £270 million includes trade receivables with a fair value of £86 million. The gross contractual amount for trade receivables due is £103 million, of which £17 million was expected to be uncollectible.

Total acquisition-related costs of £110 million were recognised within Other operating income and costs, within exceptional items and remeasurements in the consolidated income statement, of which £15 million was recognised in the year ended 31 March 2021 and £95 million in the year ended 31 March 2022.

WPD generated revenues of £1,468 million and profit before tax of £781 million for the period from 14 June 2021 to 31 March 2022. If the acquisition had occurred on 1 April 2021, the Group's consolidated revenue and consolidated profit before tax from continuing operations for the 12 months ended 31 March 2022 would have been £18,806 million and £3,600 million respectively.

38. Post balance sheet events

On 6 April 2022, the UK government announced that the entirety of ESO will become part of an independent system operator public body, following the Future System Operator (FSO) consultation. The FSO, which is subject to legislative approval, will take on a number of key roles in electricity and gas in Great Britain. The Group is working closely with BEIS and Ofgem to plan and prepare for the implementation of the changes required to create the FSO.

On 11 May 2022, Ofgem approved the Group's request to return £200 million of interconnector revenue subject to the cap and floor regime to consumers ahead of schedule (see note 26). This return will take place over the next two years. The Group is now working through the formal steps outlined under the regulatory framework which will result in the finalisation of the mechanism by which the revenues will be returned.

Company accounting policies

We are required to include the stand-alone balance sheet of our ultimate Parent Company, National Grid plc, under the Companies Act 2006. This is because the publicly traded shares are actually those of National Grid plc (the 'Company') and the following disclosures provide additional information to shareholders.

A. Basis of preparation

National Grid plc is the Parent Company of the National Grid Group, which is engaged in the transmission and distribution of electricity and gas in Great Britain and northeastern US. The Company is a public limited company, limited by shares. The Company is incorporated and domiciled in England, with its registered office at 1–3 Strand, London, WC2N 5EH.

The financial statements of National Grid plc for the year ended 31 March 2022 were approved by the Board of Directors on 18 May 2022. The Company meets the definition of a qualifying entity under Financial Reporting Standard 100 (FRS 100) issued by the Financial Reporting Council. Accordingly, these individual financial statements of the Company have been prepared in accordance with Financial Reporting Standard 101 'Reduced Disclosure Framework' (FRS 101). In preparing these financial statements the Company applies the recognition and measurement requirements of International Financial Reporting Standards (IFRS) as adopted by the UK, but makes amendments where necessary in order to comply with the provisions of the Companies Act 2006 and sets out below where advantage of the FRS 101 disclosure exemptions has been taken.

These individual financial statements have been prepared on a historical cost basis, except for the revaluation of financial instruments, and are presented in pounds sterling, which is the currency of the primary economic environment in which the Company operates. The comparative financial information has also been prepared on this basis.

These individual financial statements have been prepared on a going concern basis, which presumes that the Company has adequate resources to remain in operation, and that the Directors intend it to do so, for at least one year from the date the financial statements are signed. As the Company is part of a larger group it participates in the Group's centralised treasury arrangements and so shares banking arrangements with its subsidiaries. The Company is expected to generate positive cash flows or be in a position to obtain finance via intercompany loans to continue to operate for the foreseeable future.

In accordance with the exemption permitted by section 408 of the Companies Act 2006, the Company has not presented its own profit and loss account or statement of comprehensive income.

The following exemptions from the requirements of IFRS have been applied in the preparation of these financial statements of the Company in accordance with FRS 101:

- a cash flow statement and related notes;
- disclosures in respect of transactions with wholly owned subsidiaries;
- disclosures in respect of capital management; and
- the effects of new but not yet effective IFRS standards.

The exemption from disclosing key management personnel compensation has not been taken as there are no costs borne by the Company in respect of employees, and no related costs are recharged to the Company.

As the consolidated financial statements of National Grid plc, which are available from the registered office, include the equivalent disclosures, the Company has also taken the exemptions under FRS 101 in respect of certain disclosures required by IFRS 13 'Fair Value Measurement' and the disclosures required by IFRS 7 'Financial Instruments: Disclosures'.

There are no areas of judgement or key sources of estimation uncertainty that are considered to have a significant effect on the amounts recognised in the financial statements.

The balance sheet has been prepared in accordance with the Company's accounting policies approved by the Board and described below.

B. Fixed asset investments

Investments held as fixed assets are stated at cost less any provisions for impairment. Investments are reviewed for impairment if events or changes in circumstances indicate that the carrying amount may not be recoverable. Impairments are calculated such that the carrying value of the fixed asset investment is the lower of its cost or recoverable amount. Recoverable amount is the higher of its fair value less costs of disposal and its value-in-use. The Company accounts for common control transactions at cost.

C. Tax

Current tax for the current and prior periods is provided at the amount expected to be paid or recovered using the tax rates and tax laws that have been enacted or substantively enacted by the balance sheet date.

Deferred tax is provided in full on temporary differences which result in an obligation at the balance sheet date to pay more tax, or the right to pay less tax, at a future date, at tax rates expected to apply when the temporary differences reverse based on tax rates and tax laws that have been enacted or substantively enacted by the balance sheet date. Deferred tax is provided for using the balance sheet liability method and is recognised on temporary differences between the carrying amount of assets and liabilities in the financial statements and the corresponding tax bases used in the computation of taxable profit.

Deferred tax assets are recognised to the extent that it is regarded as more likely than not that they will be recovered. Deferred tax assets and liabilities are not discounted.

D. Foreign currencies

Transactions in currencies other than the functional currency of the Company are recorded at the rates of exchange prevailing on the dates of the transactions. At each balance sheet date, monetary assets and liabilities that are denominated in foreign currencies are retranslated at closing exchange rates. Gains and losses arising on retranslation of monetary assets and liabilities are included in the profit and loss account.

E. Financial instruments

The Company's accounting policies are the same as the Group's accounting policies under IFRS, namely IAS 32 'Financial Instruments: Presentation', IFRS 9 'Financial Instruments' and IFRS 7 'Financial Instruments: Disclosures'. The Company applies these policies only in respect of the financial instruments that it has, namely investments, derivative financial instruments, debtors, cash at bank and in hand, borrowings and creditors.

The policies are set out in notes 15, 17, 19, 20, 21 and 22 to the consolidated financial statements. The Company is taking the exemption for financial instruments disclosures, because IFRS 7 disclosures are given in notes 32 and 35 to the consolidated financial statements.

F. Hedge accounting

The Company applies the same accounting policy as the Group in respect of fair value hedges and cash flow hedges. This policy is set out in note 32 to the consolidated financial statements.

G. Parent Company guarantees

The Company has guaranteed the repayment of the principal sum, any associated premium and interest on specific loans due by certain subsidiary undertakings primarily to third parties. Such guarantees are accounted for by the Company as insurance contracts. In the event of default or non-performance by the subsidiary, a liability is recorded in accordance with IAS 37.

Company accounting policies continued

H. Share awards to employees of subsidiary undertakings

The issuance by the Company to employees of its subsidiaries of a grant over the Company's options represents additional capital contributions by the Company to its subsidiaries. An additional investment in subsidiaries results in a corresponding increase in shareholders' equity. The additional capital contribution is based on the fair value of the option at the date of grant, allocated over the underlying grant's vesting period. Where payments are subsequently received from subsidiaries, these are accounted for as a return of a capital contribution and credited against the Company's investments in subsidiaries. The Company has no employees except for the Group's Non-executive Directors (refer to the Directors' Remuneration Report on page 121).

I. Dividends

Interim dividends are recognised when they are paid to the Company's shareholders. Final dividends are recognised when they are approved by shareholders.

J. Directors' remuneration

Full details of Directors' remuneration are disclosed on pages 108 – 131.

Company balance sheet

as at 31 March

	Notes	2022 £m	2021 £m
<i>Fixed assets</i>			
Investments	1	14,432	14,389
<i>Current assets</i>			
Debtors (amounts falling due within one year)	2	28,375	20,699
Debtors (amounts falling due after more than one year)	2	87	143
Investments	5	1,368	784
Cash at bank and in hand		45	40
Total current assets		29,875	21,666
Creditors (amounts falling due within one year)	3	(23,721)	(18,312)
Net current assets		6,154	3,354
Total assets less current liabilities		20,586	17,743
Creditors (amounts falling due after more than one year)	3	(4,407)	(3,085)
Net assets		16,179	14,658
<i>Equity</i>			
Share capital	7	485	474
Share premium account		1,300	1,296
Cash flow hedge reserve		(15)	(3)
Cost of hedging reserve		(3)	(15)
Other equity reserves		469	426
Profit and loss account	8	13,943	12,480
Total shareholders' equity		16,179	14,658

The Company's profit after tax for the year was £2,371 million (2021: £5,107 million profit). Profits available for distribution by the Company to shareholders were £12.2 billion at 31 March 2022. The financial statements of the Company on pages 235 – 241 were approved by the Board of Directors on 18 May 2022 and were signed on its behalf by:

Paula Rosput Reynolds Chair
Andy Agg Chief Financial Officer

National Grid plc
Registered number: 4031152

Company statement of changes in equity

for the years ended 31 March

	Share capital £m	Share premium account £m	Cash flow hedge reserve £m	Cost of hedging reserve £m	Other equity reserves £m	Profit and loss account £m	Total shareholders' equity £m
At 1 April 2020	470	1,301	(28)	(6)	399	6,349	8,485
Profit for the year ¹	—	—	—	—	—	5,107	5,107
<i>Other comprehensive profit/(loss) for the year</i>							
Transferred to/(from) equity (net of tax)	—	—	25	(9)	—	—	16
Dividends in specie (note 1)	—	—	—	—	—	2,422	2,422
Total comprehensive profit/(loss) for the year	—	—	25	(9)	—	7,529	7,545
<i>Other equity movements</i>							
Scrip dividend-related share issue ²	4	(5)	—	—	—	—	(1)
Issue of treasury shares	—	—	—	—	—	17	17
Purchase of own shares	—	—	—	—	—	(2)	(2)
Share awards to employees of subsidiary undertakings	—	—	—	—	27	—	27
Equity dividends	—	—	—	—	—	(1,413)	(1,413)
At 31 March 2021	474	1,296	(3)	(15)	426	12,480	14,658
Profit for the year ¹	—	—	—	—	—	2,371	2,371
<i>Other comprehensive profit/(loss) for the year</i>							
Transferred (from)/to equity (net of tax)	—	—	(12)	12	—	—	—
Total comprehensive (loss)/profit for the year	—	—	(12)	12	—	2,371	2,371
<i>Other equity movements</i>							
Scrip dividend-related share issue ²	11	(12)	—	—	—	—	(1)
Issue of treasury shares	—	—	—	—	—	17	17
Transactions in own shares	—	16	—	—	—	(3)	13
Share awards to employees of subsidiary undertakings	—	—	—	—	43	—	43
Equity dividends	—	—	—	—	—	(922)	(922)
At 31 March 2022	485	1,300	(15)	(3)	469	13,943	16,179

1. Included within profit for the year is dividend income from subsidiaries of £2,500 million (2021: £7,556 million).

2. Included within the share premium account are costs associated with scrip dividends.

Notes to the Company financial statements

1. Fixed asset investments

	Shares in subsidiary undertakings £m
Cost at 1 April 2020	14,362
Additions	2,447
Cost at 31 March 2021	16,809
Additions	43
Cost at 31 March 2022	16,852
Provision at 1 April 2020	—
Charge for the year	(2,420)
Provision at 1 April 2021	(2,420)
Charge for the year	—
Provision at 31 March 2022	(2,420)
Net book value at 31 March 2022	14,432
Net book value at 31 March 2021	14,389

During the year, there was a capital contribution of £43 million (2021: £27 million) which represents the fair value of equity instruments granted to subsidiaries' employees arising from equity-settled employee share schemes.

In the year ended 31 March 2021 the Company acquired 100% investments in National Grid (US) Investments 2 Limited and National Grid Hong Kong Limited from its subsidiary undertaking, National Grid Luxembourg SARL, for a total consideration of £2,420 million in the form of a dividend in specie. Then, as part of a wider Group restructuring project, National Grid (US) Investments 2 Limited was identified as a subsidiary no longer required and hence a number of accounting steps were implemented to reduce the net assets of that company to a nominal value. These steps included a capital reduction and the payment of dividends to the Company of £2,422 million. Following the receipt of these dividends, the carrying value of the investment was reviewed and an impairment charge was made to the profit and loss account of £2,420 million. It is anticipated that National Grid (US) Investments 2 Limited will be placed into voluntary liquidation in the next financial year.

The Company's direct subsidiary undertakings as at 31 March 2022 were as follows: National Grid (US) Holdings Limited, National Grid (US) Investments 2 Limited, National Grid Hong Kong Limited, National Grid Luxembourg SARL and NGG Finance plc. The names of indirect subsidiary undertakings, joint ventures and associates are included in note 34 to the consolidated financial statements.

The Directors believe that the carrying value of the investments is supported by the fair value of their underlying net assets.

2. Debtors

	2022 £m	2021 £m
<i>Amounts falling due within one year</i>		
Derivative financial instruments (note 4)	65	86
Amounts owed by subsidiary undertakings	28,299	20,613
Other debtors	11	—
	28,375	20,699
<i>Amounts falling due after more than one year</i>		
Derivative financial instruments (note 4)	81	139
Deferred tax	6	4
	87	143

The carrying values stated above are considered to represent the fair values of the assets. For the purposes of the impairment assessment, loans to subsidiary undertakings are considered low credit risk as the subsidiaries are solvent and are covered by the Group's liquidity arrangements.

A reconciliation of the movement in deferred tax in the year is shown below:

	Deferred tax £m
At 1 April 2020	8
Charged to equity	(4)
At 31 March 2021	4
Credited to equity	2
At 31 March 2022	6

Notes to the Company financial statements continued

3. Creditors

	2022 £m	2021 £m
<i>Amounts falling due within one year</i>		
Borrowings (note 6)	9,029	635
Derivative financial instruments (note 4)	129	34
Amounts owed to subsidiary undertakings	14,512	17,589
Other creditors	51	54
	23,721	18,312
<i>Amounts falling due after more than one year</i>		
Borrowings (note 6)	2,091	823
Derivative financial instruments (note 4)	266	203
Amounts owed to subsidiary undertakings	2,050	2,059
	4,407	3,085
<i>Amounts owed to subsidiary undertakings falling due after more than one year are repayable as follows:</i>		
In 1 to 2 years	—	—
In 2 to 3 years	421	—
In 3 to 4 years	998	425
In 4 to 5 years	—	997
More than 5 years	631	637
	2,050	2,059

The carrying values stated above are considered to represent the fair values of the liabilities.

4. Derivative financial instruments

The fair values of derivative financial instruments are:

	2022			2021		
	Assets £m	Liabilities £m	Total £m	Assets £m	Liabilities £m	Total £m
Amounts falling due within one year	65	(129)	(64)	86	(34)	52
Amounts falling due after more than one year	81	(266)	(185)	139	(203)	(64)
	146	(395)	(249)	225	(237)	(12)

For each class of derivative, the notional contract¹ amounts are as follows:

	2022 £m	2021 £m
Cross-currency interest rate swaps	(5,034)	(3,604)
Foreign exchange forward contracts	(12,322)	(9,517)
	(17,356)	(13,121)

1. The notional contract amounts of derivatives indicate the gross nominal value of transactions outstanding at the balance sheet date.

5. Investments

	2022 £m	2021 £m
Investments in short-term money funds	1,164	697
Restricted balances – collateral	204	87
	1,368	784

6. Borrowings

The following table analyses the Company's total borrowings:

	2022 £m	2021 £m
<i>Amounts falling due within one year</i>		
Bank loans	8,206	8
Bonds	4	362
Commercial paper	819	265
	9,029	635
<i>Amounts falling due after more than one year</i>		
Bonds	2,091	823
	11,120	1,458

The maturity of total borrowings is as follows:

	2022 £m	2021 £m
Total borrowings are repayable as follows:		
Less than 1 year	9,029	635
In 1 to 2 years	—	—
In 2 to 3 years	—	—
In 3 to 4 years	—	—
In 4 to 5 years	—	—
More than 5 years	2,091	823
	11,120	1,458

The notional amount of borrowings outstanding as at 31 March 2022 was £11,215 million (2021: £1,480 million).

7. Share capital

The called-up share capital amounting to £485 million (2021: £474 million) consists of 3,904,074,348 ordinary shares of 12²⁰⁴/₄₇₃ pence each (2021: 3,814,951,606 ordinary shares of 12²⁰⁴/₄₇₃ pence each). For further information on share capital, refer to note 27 of the consolidated financial statements.

8. Shareholders' equity and reserves

At 31 March 2022, the profit and loss account reserve stood at £13,943 million (2021: £12,480 million) of which profits available for distribution by the Company to shareholders were £12.2 billion (2021: £9.9 billion).

For further details of dividends paid and payable to shareholders, refer to note 9 of the consolidated financial statements.

9. Parent Company guarantees

The Company has guaranteed the repayment of the principal sum, any associated premium and interest on specific loans due by certain subsidiary undertakings primarily to third parties. At 31 March 2022, the sterling equivalent amounted to £2,084 million (2021: £2,108 million). The guarantees are for varying terms from less than one year to open-ended.

In addition, as part of the sectionalisation of the National Grid UK Pension Scheme on 1 January 2017, a guarantee of £1 billion has been provided to Section A. This payment is contingent on insolvency or on failure to pay pensions obligations to Section A and can be claimed against National Grid plc, National Grid Holdings One plc or Lattice Group Limited (up to £1 billion in total). Refer to note 25 of the consolidated financial statements.

10. Audit fees

The audit fee in respect of the Parent Company was £31,000 (2021: £28,000). Fees payable to Deloitte for non-audit services to the Company are not required to be disclosed as they are included within note 4 to the consolidated financial statements.

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Doing Right Now



Digitalisation

We are transforming how we connect our rapidly changing customer base to connect customers quicker and at a lower cost by digitalising our processes and standardising our designs.

1995

National Grid listed on the London Stock Exchange

2017

National Grid sells a 61% equity interest in the remaining UK Gas Distribution business

2021

National Grid buys WPD and, following the WPD Acquisition and certain regulatory approvals, agrees to sell NECO, its Rhode Island gas and electricity business

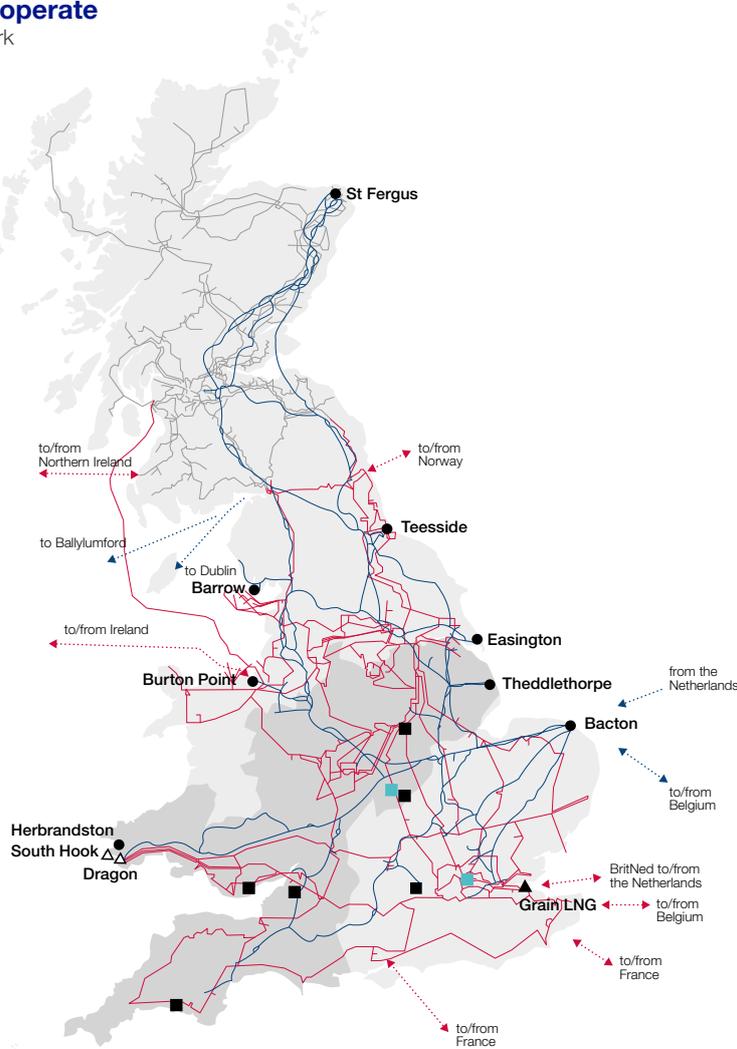
2022

National Grid sells a majority equity interest in the UK GT business and our UK metering business

Additional Information

Where we operate

Our UK network



UK Electricity Distribution (WPD)

Approximately 55,533 miles (89,372 kilometres) of overhead line, 85,728 miles (137,966 kilometres) of underground cable and 189,644 transformers.

UK Transmission¹

- Scottish electricity transmission system
- English and Welsh electricity transmission system

Approximately 4,484 miles (7,216 kilometres) of overhead line, 1,585 miles (2,551 kilometres) of the underground cable and 347 substations.

— Gas transmission system

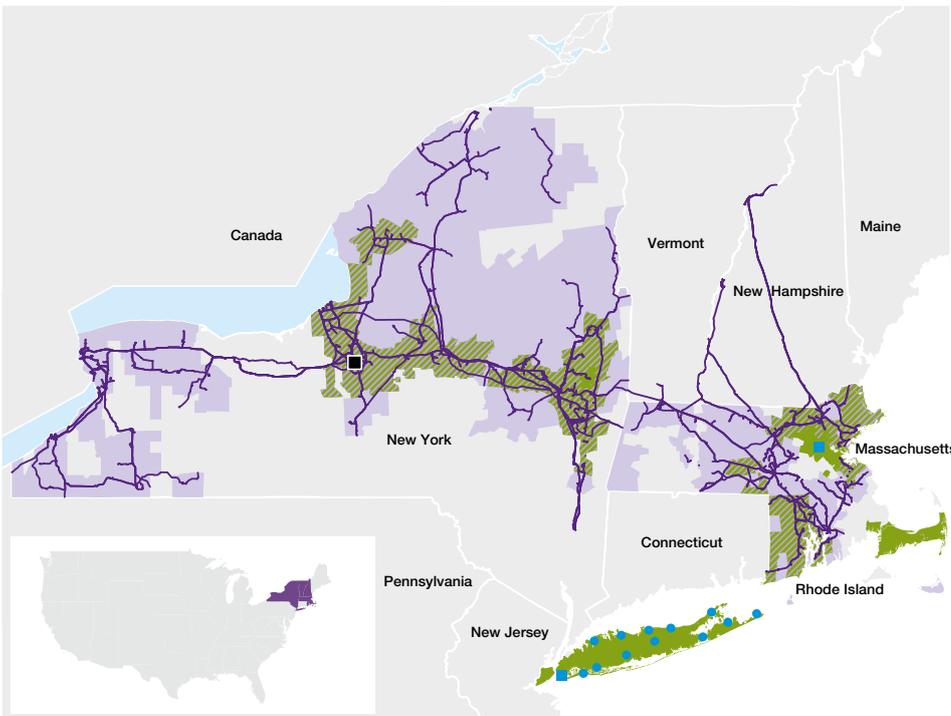
Approximately 4,740 miles (7,628 kilometres) of high-pressure pipe and 23 compressor stations connecting to eight distribution networks and third-party independent systems.

- Terminal
- ▲ LNG terminal owned by National Grid
- △ LNG terminal
- ↔ Electricity interconnector
- ↔ Gas interconnector

Principal offices

- Owned office space: Bristol, Cardiff, Castle Donington, Plymouth, Warwick and Wokingham
- Leased office space: Solihull and London

Our US network



US Regulated¹

- Electricity transmission network
- Gas distribution operating area
- Electricity distribution area
- Gas and electricity distribution area overlap

An electricity transmission network of approximately 8,831 miles (14,212 kilometres) of overhead line, 109 miles (175 kilometres) of underground cable and 399 transmission substations. We own and operate approximately 279 miles (449 kilometres) of high-voltage electric interconnectors in New England.

An electricity distribution network of approximately 69,291 circuit miles (111,513 kilometres) and 718 distribution substations in New England and upstate New York.

A network of approximately 36,756 miles (59,153 kilometres) of gas pipeline. Our gas pipeline network includes approximately 953 miles (1,534 kilometres) of gas transmission pipe, as defined by the US Department of Transportation.

- Generation

Principal offices

- Owned office space: Syracuse, New York
- Leased office space: Brooklyn, New York and Waltham, Massachusetts

At present, environmental issues are not preventing our UK and US businesses from utilising any material operating assets in the course of their operations.

1. Access to electricity and gas transmission assets on property owned by others is controlled through various agreements.

The business in detail

UK regulation

Our licences to participate in transmission, distribution and interconnection activities are established under the Gas Act 1986 and the Electricity Act 1989, as amended (the 'Acts'). These require us to develop, maintain and operate economic and efficient networks and to facilitate competition in the supply of gas and electricity in Great Britain (GB). They also give us statutory powers, including the right to bury our pipes or cables under public highways and the ability to use compulsory powers to purchase land so we can conduct our business.

Our licensed activities are regulated by Ofgem, which has a statutory duty under the Acts to protect the interests of consumers. To protect consumers from the ability of companies to set unduly high prices, Ofgem has established price controls that limit the amount of revenue such regulated businesses can earn. In setting price controls, Ofgem must have regard to the need to secure that licence holders are able to finance their obligations under the Acts. This should give us a level of revenue for the duration of the price control that is sufficient to meet our statutory duties and licence obligations with a reasonable return on our investments. Licensees and other affected parties can appeal price controls or within period licence modifications which have errors, including in respect of financeability.

The transmission and distribution businesses follow the RIIO (revenue = incentives + innovation + outputs) framework established by Ofgem. There are multiple price controls under this framework, including:

- RIIO-T1 (transmission, April 2013 – March 2021);
- RIIO-T2 (transmission, April 2021 – March 2026);
- RIIO-ED1 (electricity distribution, April 2015 – March 2023); and
- RIIO-ED2 (electricity distribution, April 2023 – March 2028).

While the RIIO-T1 period has finished, and confirmation of the delivered outputs and performance levels was reported through the annual reporting process in July 2021, there is a close-out process ongoing to finalise adjustments to allowed revenues in respect of a few licence condition obligations for the RIIO-T1 period; this is expected to conclude in November 2022.

Our UK gas and electricity transmission, electricity distribution (WPD) and system operator businesses operate under four separate price controls, which cover our roles as Transmission Owner (TO) and System Operator (SO) in both gas and electricity, and our electricity distribution activities. National Grid Gas Transmission (NGG) fulfils SO and TO functions for gas, National Grid Electricity Transmission fulfils the TO function for electricity, the Electricity System Operator (ESO) fulfils the SO function for electricity, and WPD fulfils electricity distribution activities. In addition to these four regulated network price controls, there is also a tariff cap price control applied to certain elements of domestic-sized metering activities carried out by National Grid

Metering and regulation of our electricity interconnector interests.

Since 1 April 2019, the ESO has been a legally separate business within the National Grid Group. This means it operates under its own licence and has a separate set of regulatory arrangements, along with strict ringfences for information.

WPD operates under one regulatory framework, the RIIO-ED model. Distribution network operators (DNOs) in the UK are natural monopolies and to ensure value for money for consumers WPD is regulated by Ofgem. The operations are regulated under the distribution licence which sets the requirements that WPD needs to deliver for its customers. In addition to the base level of revenue which the DNOs are allowed to earn, there are incentives to innovate and deliver various outputs relating to customer service, network performance, the environment, connections and efficiency. The achievement or not of targets in relation to these activities can result in rewards or penalties.

More information on the regulation of the ESO, WPD and interconnectors is given in separate sections below.

RIIO price controls

The building blocks of the RIIO price control are broadly similar to the price controls historically used in the UK. There are, however, some significant differences in the mechanics of the calculations.

Under RIIO, the outputs we deliver are explicitly articulated and our allowed revenues are linked to their delivery, although some outputs and deliverables have only a reputational impact or are linked to legislation. These outputs reflect what our stakeholders have told us they want us to deliver and were determined through an extensive consultation process, which gave stakeholders a greater opportunity to influence the decisions.

Using information we have submitted, along with independent assessments, including for RIIO-T2 an independent user group report, Ofgem determines the efficient level of expected costs necessary for these deliverables to be achieved. Under RIIO this is known as 'totex', which is a component of total allowable expenditure and is broadly the sum of what was defined in previous price controls as operating expenditure (opex) and capital expenditure (capex).

A number of assumptions are necessary in setting allowances for the outputs that we will deliver, including the volumes of work that will be needed and the price of the various external inputs required to achieve them. Consequently, there are a number of uncertainty mechanisms within the RIIO framework designed to protect consumers and network companies by avoiding the need to set allowances when future needs and costs are uncertain.

Where we under- or over-spend the allowed totex for reasons that are not covered by uncertainty mechanisms, there is a 'sharing' factor. This means we share the under- or over-spend with customers through an

adjustment to allowed revenues in future years. This sharing factor provides an incentive for us to provide the outputs efficiently, as we are able to keep a portion of savings we make, with the remainder benefitting our customers. Likewise, it provides a level of protection for us if we need to spend more than allowances. Alongside this, there are several specific areas where companies can submit further claims for new allowances within the period, for instance to enable net zero.

Allowed revenue to fund totex costs is split between RIIO 'fast' and 'slow' money categories using specified ratios that are fixed for the duration of the price control. Fast money represents the amount of totex we are able to recover in the year of expenditure. Slow money is added to our Regulatory Asset Value (RAV) – effectively the regulatory IOU.

For more details on the sharing factors under RIIO for our transmission businesses, please see the tables overleaf.

In addition to fast money, each year we are allowed to recover regulatory depreciation, i.e. a portion of the RAV, and a return on the outstanding RAV balance. The RAV is also indexed to a measure of inflation, using CPIH in RIIO-T2. For RIIO-T2, regulatory depreciation for ET continues on a straight-line depreciation methodology over 45 years, while Gas Transmission (GT) moves from straight-line to sum-of-digit depreciation (so that depreciation is front loaded but then lower in the later years of the life of the asset). We are also allowed to collect additional revenues related to non-controllable costs and incentives. In addition to totex sharing, RIIO incentive mechanisms can increase or decrease our allowed revenue to reflect our performance against various other measures related to our outputs. For example, in RIIO-T2 there are rewards and penalties for performance against incentives. These incentive payments are a function of allowed revenue and could result in potential upsides for electricity transmission (ET) of up to £15 million and downsides in the region of £47 million, therefore incentivising us to deliver the agreed outputs. For gas transmission (GT) the upside is £15.1 million of allowed revenue with a downside of £14 million. Ofgem will consult on the maximum range of potential upside and downside for RIIO-ED2 as part of its July 2022 publication, and finalise the position in the winter 2022 Final Determination, covering the period from April 2023 to March 2028.

The RIIO-ED1 price control

From 1 April 2015, Ofgem set an eight-year electricity price control (known as RIIO-ED1). WPD submitted an outputs-based Business Plan for the RIIO-ED1 period (2015 – 2023), which was accepted by Ofgem as 'well justified' and could therefore 'fast-track' all four WPD licensed areas; the only DNO group to be fast-tracked. WPD's modified licences took effect from 1 April 2015. Our 76 commitments within the RIIO-ED1 Business Plan fall within the following six categories: safety, reliability, environment, connections, customer satisfaction and social obligations.

The business in detail continued

These price controls include a number of mechanisms designed to help achieve their objectives. These include financial incentives that encourage us to:

- efficiently deliver, through investment and maintenance, the network outputs that customers and stakeholders require, including reliable supplies, new connections and infrastructure capacity; and
- innovate so we can continuously improve the services we provide to our customers, stakeholders and communities.

More information on RIIO-T2

In December 2019 we submitted our Business Plans to Ofgem for the RIIO-T2 period, setting out the proposed activities and expenditure to meet the needs of our customers and stakeholders in the period 1 April 2021 – 31 March 2026. These plans were developed through extensive, enhanced stakeholder engagement to improve the quality and ensure they delivered what our stakeholders need.

To support this process, independent user groups were set up in July 2018, one for GT and one for ET (the 'IUGs'). Their responsibility was to ensure that the companies were putting stakeholders at the heart of their decision-making processes so as to produce a Business Plan that was fully reflective of customers', consumers' and other stakeholders' requirements. They summarised their views in an independent report to Ofgem on the companies' RIIO-T2 Business Plans in December 2019.

The IUGs represent a cross-section of the energy industry and represent the interests of consumers, environmental and public interest groups, as well as large-scale and small-scale customers and distribution networks.

The IUGs have now taken on an enduring role through RIIO-T2. There are three key focus areas, which are to:

- scrutinise and challenge the periodic Business Plans;
- monitor, interrogate and help the business to enhance transparency of performance against commitments; and
- act as a 'critical friend' for strategy, culture and processes in key areas such as stakeholder engagement, innovation, customers, consumers and responsible business.

Ofgem published its Final Determinations in December 2020, followed by the RIIO-T2 licences and Regulatory Instructions and Guidance in February 2021. The RIIO-T2 price controls started on 1 April 2021. On 2 March 2021, National Grid announced that it was broadly accepting most of the RIIO-T2 package for its ET and GT businesses, but had decided to submit a technical appeal to the Competition and Markets Authority (CMA) in relation to ET and GT focused on Ofgem's proposed cost of equity and 'outperformance wedge' (a downward adjustment to allowed returns in expectation of future outperformance).

Key parameters from Ofgem's RIIO-T2 Determinations for GT and ET

	Gas Transmission	Electricity Transmission
Allowed Return on Equity ¹	4.55% (real, relative to CPIH)	4.25% (real, relative to CPIH), at 55% gearing (which is broadly equivalent to 4.55% at 60% gearing)
Allowed debt funding	Calculated and updated each year using an extending 'trombone-like' trailing average of iBoxx Utilities 10+ year index (increases from 10 years for 2021/22 to 14 years for 2025/26), plus 25 bps additional borrowing costs.	
Depreciation of RAV	45-year sum-of-digit regulatory depreciation applied to RIIO-T2 additions and retrospectively to 2002 – 2021 additions.	No change in policy: straight line over 45 years for post-2021 RAV additions, with pre-2021 RAV additions as per RIIO-T1.
Notional gearing	60%	55%
Split between fast/slow money	Fast: TO baseline 35%; SO baseline 66%; TO uncertainty mechanisms 25% Slow: TO baseline 65%; SO baseline 34%; TO uncertainty mechanisms 75%	Fast: TO baseline 22%; TO uncertainty mechanisms 15% Slow: TO baseline 78%; TO uncertainty mechanisms 85%
Sharing factor	39%	33%
Core baseline totex in 2018/19 prices (cumulative for the five years of RIIO-T2)	£2.1 billion	£5.8 billion

1. The cost of equity in RIIO-T2 is subject to annual adjustments that are calculated using the Capital Asset Pricing Model, through indexation of the 'risk-free rate' parameter. The 4.55% and 4.25% figures shown in this row are Ofgem's estimates of the average allowed Return on Equity over the five years of RIIO-T2, as given in the RIIO-T2 Price Control Financial Model published in November 2021.

In October 2021, the CMA found in favour of the technical arguments we put forward in respect of the 'outperformance wedge' but not on the cost of equity.

RIIO-T2 builds on the framework established for RIIO-T1. For example, it introduces a range of new mechanisms to facilitate the transition to net zero, and it increases support for innovation, for example by allowing the regulator to direct additional funding in gas transportation for hydrogen innovation, in recognition of the uncertainty around the extent networks may have a role in transporting hydrogen.

Competition in onshore transmission

Ofgem stated in its final decision on the RIIO-T1 price control that it would consider holding a competition to appoint the constructor and owner of suitably large new electricity transmission projects, rather than including these new outputs and allowances in existing transmission licensee price controls. Ofgem reiterated this view in the RIIO-T2 Determination, extending it now to gas transmission and gas distribution. In the absence, thus far, of the legislation needed to support a competition, Ofgem has developed a number of models which it has indicated it would consider using to deliver benefits of competition, the primary one of these being called the 'Competition Proxy Model', but so far this has not been used for any projects or implemented into licences. The December 2020 BEIS energy white paper reiterated the government's ambition to introduce greater competition to support the delivery of net zero targets but also explained that the introduction of legislation to support full third-party competition would be subject to available parliamentary time.

Regulation of the Electricity System Operator

A primary goal of the ESO legal separation in April 2019 was to increase transparency of our activities and help minimise any perceived conflicts of interest as we take on the challenge of driving forward the energy transformation. There are clear signals from Ofgem and the broader regulatory context that the ESO will play a crucial role in the changing energy environment. As an asset-light and service-based entity, the ESO is also fundamentally different from other regulated network companies. The RIIO-2 price control therefore implemented a bespoke framework for the ESO, recognising that it is different from other regulated businesses.

As part of the RIIO-2 process, the ESO published a five-year Business Plan in December 2019, followed by a detailed two-year delivery schedule in October 2020 (covering the two-year Business Plan 1 (BP1) period). These documents, which were developed following extensive stakeholder engagement, set out the ESO's planned activities and how they fit with its high-level ambitions. However, as the ESO's funding uses a pass-through mechanism (where all efficiently incurred costs can be recovered through regulated revenues), the ESO has the flexibility to deviate from its published plans, delivering additional activities where there is an opportunity to benefit consumers. The ESO's recent work on an Early Competition Plan and supporting the Offshore Transmission Network Review are examples of such activities.

The RIIO-2 regulatory framework includes a return on RAV but also provides additional non-RAV funding for roles and risks that are not linked to an asset base. There is no totex incentive mechanism for the ESO in RIIO-2, which means that the ESO has greater flexibility to adjust spending in order to deliver its ambitious Business Plan and maximise consumer benefit. ESO performance in RIIO-2 will continue to be assessed via an evaluative incentive approach, through a two-year incentive scheme with a total maximum reward of £30 million and maximum penalty of £12 million for the two-year period. As part of this incentive scheme, a Performance Panel (the 'Panel') of industry stakeholders scores the ESO on its performance, taking into account the delivery of its plans, numerical metrics such as balancing costs, stakeholder interactions, the benefit the ESO has delivered for consumers and the extent to which the ESO's activities have delivered value for money. The Panel scores performance and gives feedback on a six-monthly basis, with the final set of scores in summer 2023 informing the reward or penalty awarded by Ofgem at the end of the two-year BP1 period.

On 29 April 2022 the ESO published its draft plan for the Business Plan 2 (BP2) period, which runs from April 2023 to March 2025. Following engagement with industry the ESO will publish a final BP2 in August 2022. Ofgem is expected to publish its Draft Determinations on ESO's BP2 in November 2022, with Final Determinations in March 2023.

The challenge of net zero, the required speed of decarbonisation and the level of industry and societal change mean that structures and roles across the energy industry will need to evolve. In summer 2021, Ofgem and BEIS jointly consulted on the future of energy system operation. The consultation proposed that the creation of a future system operator, built on the existing capability of the ESO, is a key next step to accelerate the transition to net zero. BEIS and Ofgem have now made their final decision to proceed with the creation of a future system operator that is independent of National Grid. This decision means that, in time, the entirety of the ESO will become part of a new organisation, as well as certain long-term strategic activities for gas. The announcement does not include the operational functions of the Gas System Operator (GSO), which will remain part of NGG. We will continue to collaborate with BEIS, Ofgem and the wider industry following the outcome of this consultation.

Interconnectors regulation

Interconnectors derive their revenues from sales of capacity to users who wish to move power between market areas with different prices. Up until 31 December 2020, this was governed under European legislation and these capacity sales are classified as 'congestion revenues'. This is because the market price differences result from congestion on the established

interconnector capacity which limits full price convergence. European legislation governed how congestion revenues may be used and how interconnection capacity is allocated. It requires all interconnection capacity to be allocated to the market through auctions. From 1 January 2021, interconnectors to the UK are no longer governed by European legislation, and the operation of these interconnectors is governed by individual sets of access rules which are agreed by regulators at each end of the link. This does not affect the fundamental business model for interconnectors.

Under UK legislation, interconnection businesses must be separate from transmission businesses.

There is a range of different regulatory models available for interconnector projects. These involve various levels of regulatory intervention, ranging from fully merchant (where the project is fully reliant on sales of interconnector capacity) to cap and floor.

The cap and floor regime is now the regulated route for interconnector investment in GB and may be sought by project developers who do not qualify for, or do not wish to apply for, exemptions from UK and European legislation which would facilitate a merchant development.

Regulation of WPD

Looking to the future, RIIO-ED2 covering the period 1 April 2023 – 31 March 2028, is the second electricity distribution price control to be set under the RIIO model. The first draft of our RIIO-ED2 Business Plan was submitted to Ofgem's Challenge Group on 1 July 2021 and the final submission was made on 1 December 2021. Ofgem's Draft Determinations are expected in July 2022 with Final Determinations due by winter 2022.

Following the government's recent legislation for net zero carbon by 2050, DNOs will be at the forefront of its delivery, enabling the transition to a smart, flexible, low-cost and low-carbon energy system for all consumers and network users.

Our RIIO-ED2 Business Plan has been co-created with our stakeholders, following an enhanced and extensive approach to stakeholder engagement with over 25,000 stakeholders being consulted. We provided our stakeholders an opportunity to review our Business Plan three times before the final submission to Ofgem. Our Business Plan has evolved based on the feedback from our stakeholders, the Customer Engagement Groups (CEG) and Ofgem's Challenge Group. Most notable changes have been a reduction of core commitments that demonstrate that they are all well justified, an increase to the ex-ante load-related expenditure to reflect our best view of low-carbon technology (LCT) take-up and additional strategies including the Business Innovation and Efficiency strategy, which clearly demonstrate how WPD will offer best value for our customers.

The core commitments, as included in our Business Plan, fall within three key headings driven by Ofgem. These focus on meeting the needs of consumers and network users, maintaining a safe and resilient network, and delivering an environmentally sustainable service. Every core commitment in our draft Business Plan is in response to an area of focus identified as a priority by stakeholders. Some of the key commitments include:

Sustainability: Leading the drive to net zero as early as possible

- Facilitating regions achieving net zero carbon by as early as 2028 in line with local authority ambitions.
- WPD to be net zero by 2028 for our own business carbon footprint (excluding network losses).

Connectability: Customers can connect their electric vehicles and heat pumps when they want to

- Ready for an additional 1.5 million electric vehicles and 600,000 heat pumps to be connected during RIIO-ED2, providing affordable, LCT connections without delays.
- An online tool for same day self-assessment for the connection of LCTs to our network.

Vulnerability: First class vulnerable customer support programme where everyone benefits in a smart future

- 600,000 smart energy plans offered to customers in vulnerable situations each year.
- £60 million saved by 113,000 fuel poor customers as a result of our ED2 support schemes.

Affordability: Maintain excellent customer service, safety and network performance, and transform the energy grid for future generations, whilst maintaining affordability for our customers

- Targeting 93%+ on customer satisfaction in ED2.
- Lowest ever levels of power cuts.

US regulation

Regulators

In the US, public utilities' retail transactions are regulated by state utility commissions which serve as economic regulators, approving cost recovery and authorised rates of return. The state commissions establish the retail rates to recover the cost of transmission and distribution services within their jurisdictions. They also serve the public interest by making sure utilities provide safe and reliable services at just and reasonable prices. The commissions establish service standards and approve public utility mergers and acquisitions. State commissions are also asked to approve a variety of programmes and costs related to state energy and climate goals.

The Federal Energy Regulatory Commission (FERC) regulates wholesale transactions for utilities, such as interstate transmission and wholesale electricity sales, including rates for these services, at the federal level. FERC also regulates public utility holding companies and centralised service companies, including those of our US businesses.

Regulatory process

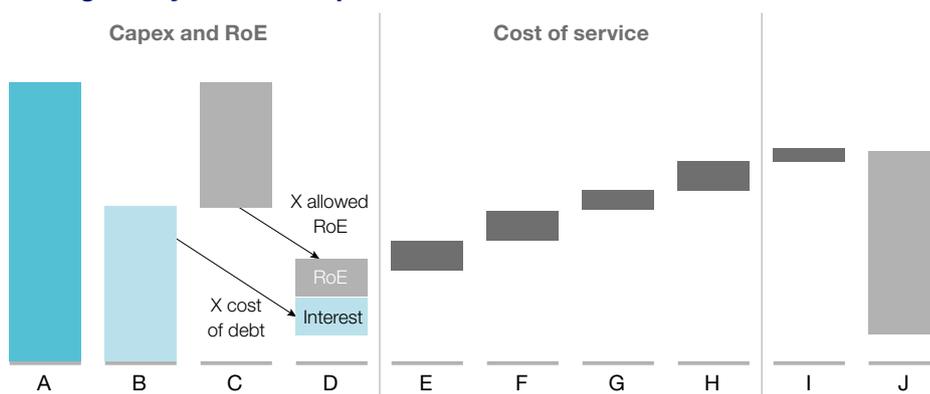
The US regulatory regime is premised on allowing the utility the opportunity to recover its cost of service and earn a reasonable return on its investments as determined by each commission. Utilities submit formal rate filings (rate cases) to the relevant state regulator when additional revenues are necessary to provide safe, reliable service to customers. Additionally, utilities can be compelled to file a rate case, either due to complaints filed with the commission or at the commission's own discretion.

The rate case is typically litigated with parties representing customers and other interests. The utility is required to prove that the requested rate change is just and reasonable, and the requested rate plan can span multiple years. In the states where we operate, it can typically take 9 – 13 months for the commission to render a final decision, although, in some instances, rules allow for longer negotiation periods which may extend the length of the rate case proceeding. Unlike the state processes, FERC, as the federal regulator, has no specified timeline for adjudicating a rate case; typically it makes a final decision retroactively when the case is completed.

Gas and electricity rates are established from a revenue requirement, or cost of service, equal to the utility's total cost of providing distribution or delivery service to its customers, as approved by the commission in the rate case. This revenue requirement includes operating expenses, depreciation, taxes, and a fair and reasonable return on shareholder capital invested in certain components of the utility's regulated asset base or 'rate base'.

The final revenue requirement and rates for service are approved in the rate case decision. The revenue requirement is derived from a comprehensive study of the utility's total costs during a representative 12-month period, referred to as a test year. Each commission has its own rules and standards for adjustments to the test year. These may include forecast capital investments and operating costs.

US regulatory revenue requirement



- A Rate base
- B Debt
- C Equity
- D Return
- E Controllable costs
- F Non-controllable costs
- G Depreciation
- H Taxes
- I Lagged recoveries
- J Allowed revenue

Our rate plans

Each operating company has a set of rates for service. We have three electric distribution operations (upstate New York, Massachusetts and Rhode Island) and five gas distribution networks (upstate New York, New York City, Long Island, Massachusetts and Rhode Island).

Our distribution operating companies have revenue-decoupling mechanisms that delink their revenues from the quantity of energy delivered and billed to customers. These mechanisms remove the natural disincentive utility companies have for promoting and encouraging customer participation in energy-efficiency programmes that lower energy end use and distribution volumes.

We bill our customers for their use of electricity and gas services. Customer bills typically cover the cost of the commodity (electricity or gas delivered), and charges covering our delivery service. With the exception of residential gas customers in Rhode Island, our customers are allowed to select an unregulated competitive supplier for the commodity component of electricity and gas utility services.

A substantial proportion of our costs, in particular electricity and gas commodity purchases, are 'pass-through' costs, fully recoverable from our customers. We recover 'pass-through' costs through making separate charges to customers, designed to recover those costs with no profit. We adjust the charges from time to time, often annually to make sure that any over- or under-recovery of these costs is returned to, or recovered from, our customers.

Our rate plans are designed to a specific allowed Return on Equity (RoE), by reference to an allowed operating expense level and rate base. Some rate plans include earnings-sharing mechanisms that allow us to retain a proportion of the earnings above our allowed RoE, achieved through improving efficiency, with the balance benefitting customers.

In addition, our performance under certain rate plans is subject to service performance targets. We may be subject to monetary penalties in cases where we do not meet those targets.

Our FERC-regulated transmission companies use formula rates (instead of periodic stated rate cases) to set rates annually that recover their cost of service. Through the use of annual true-ups, formula rates recover our actual costs incurred and the allowed RoE based on the actual transmission rate base each year. We must make annual formula rate filings documenting the revenue requirement that customers can review and challenge.

Revenue for our wholesale transmission businesses in New England and New York is collected from wholesale transmission customers. These are typically other utilities and include our own New England electricity distribution businesses. With the exception of upstate New York, which continues to combine retail transmission and distribution rates to end-use customers, these wholesale transmission costs are generally incurred by distribution utilities on behalf of their customers. They are fully recovered as a pass-through from end-use customers, as approved by each state commission.

Our Long Island generation plants sell capacity to the Long Island Power Authority (LIPA) under 15-year and 25-year power supply agreements and within wholesale tariffs approved by FERC. Through the use of cost-based formula rates, these long-term contracts provide a similar economic effect to cost-of-service rate regulation.

One measure used to monitor the performance of our regulated businesses is a comparison of achieved RoE to allowed RoE. However, this measure cannot be used in isolation, as several factors may prevent us from achieving the allowed RoE. These include financial market conditions, regulatory lag (e.g. the time period after a rate or expense is approved for recovery but before we collect the same from customers)

and decisions by the regulator preventing cost recovery in rates from customers.

We work to increase achieved RoE through:

- productivity improvements;
- positive performance against incentives or earned savings mechanisms, such as available energy-efficiency programmes; and
- filing a new rate case when achieved returns are lower than those the Company could reasonably expect to attain through a new rate case.

US regulatory filings

The objectives of our rate case filings are to make sure we have the right cost of service and are able to earn a fair and reasonable rate of return, while providing a safe, reliable and economical service. To achieve these objectives and reduce regulatory lag, we have been successful in many cases in obtaining relief, such as:

- revenue decoupling mechanisms;
- capital trackers;
- commodity-related bad debt true-ups;
- pension and other post-employment benefit true-ups, separately from base rates; and
- performance-based frameworks such as incentives and multi-year plans.

We explain these terms in the table on page 252.

Below, we summarise significant, recent developments in rate filings and the regulatory environment. A joint proposal setting forth a three-year rate plan for KEDNY and KEDLI was approved by the New York State Public Service Commission (NYPSC) in August 2021. A joint proposal, setting forth a three-year rate plan for Niagara Mohawk, was approved by the NYPSC in January 2022.

An amended settlement agreement setting forth a three-year rate plan for The Narragansett Electric Company was approved by the Rhode Island Public Utilities Commission (RIPUC) in August 2018. The multi-year rate plan includes an interim fourth year, effective 1 September 2021.

In November 2018, we made a full rate case filing for Massachusetts Electric which resulted in a five-year performance-based ratemaking plan in September 2019. In November 2020, we made a full rate case filing for Boston Gas resulting in a five-year performance-based ratemaking plan in September 2021.

Massachusetts

Massachusetts Electric and Nantucket Electric rate cases

We filed a rate case for Massachusetts Electric and Nantucket Electric with the MADPU on 15 November 2018 with new rates effective on 1 October 2019. The Massachusetts Electric rate case was the first for Massachusetts Electric and Nantucket Electric since the case was filed in 2015. It updated the electric companies' rates to more closely align revenues with the cost of service and bring their earned RoEs closer to the allowed RoE. New rates were approved with an allowed RoE of 9.6% on an equity ratio of 53.5%. The MADPU approved a five-year performance-

based ratemaking plan, which adjusts distribution rates annually based on a predetermined formula. As part of its decision, the MADPU required a management audit addressing the Company's strategic planning processes, staffing decisions and its relationship to National Grid USA Service Company, among other items.

Boston Gas Company rate case

On 30 September 2021, the MADPU issued an order in Boston Gas Company's most recent rate case. The MADPU decision: (1) allowed an increase in base revenues of \$144.86 million, as compared with the request for \$220.74 million; (2) authorised a RoE of 9.70%, raised from the previous RoE of 9.5%; (3) authorised a capital structure of 53.44% equity and 46.56% debt; and (4) allowed for recovery of the costs of 133 new, incremental full-time employees. The decision also approved the Company's proposed five-year performance-based ratemaking plan which adjusts distribution rates annually based on a predetermined formula. Boston Gas had also presented its Future of Heat proposals to address Massachusetts' ambitious greenhouse gas emissions reduction goals. These proposals are innovative programmes and demonstration projects that the Company has developed to reduce emissions, promote gas demand response, and encourage the development of sustainable heating options and new technologies to advance low-carbon heating solutions. Ultimately, the MADPU elected to remove our Future of Heat proposals from the rate case without prejudice for their consideration as part of other proceedings. Subsequently, on 15 December 2021, the MADPU approved the Company's geothermal district energy demonstration programme for five years with a budget of \$15.6 million.

Electric vehicles (EV)

To support Massachusetts' zero emission vehicle targets, in July 2021 the Company filed its Phase III EV charging programme with the MADPU, building on the success of two prior programmes and representing the second-largest such proposal in the US. The proposal requests MADPU approval for \$278 million in spending to enable 7,500 public and workplace ports, 24,000 residential ports, and 600 fleet charging ports, as well to support electric school bus conversions in environmental justice communities, and expansion of the Company's off-peak charging rebate programme.

Investigation into role of gas distribution companies in achieving climate change goals

On 29 October 2020, the MADPU issued an order opening an investigation into the role of gas distribution companies in achieving Massachusetts' 2050 climate goals. On or before 18 March 2022, each company was required to submit a proposal to the MADPU that includes its recommendations and plans for helping Massachusetts achieve its 2050 climate goals, supported by an independent consultant's report, that incorporates feedback and advice obtained through a stakeholder process. Supported by the consultant's analysis, National Grid's proposal envisions meeting the state's 2050 climate goals by utilising a decarbonised and integrated gas and electric system that:

- increases investment in and adoption of energy-efficiency measures;
- eliminates fossil fuels from our gas supply by pursuing delivery of fossil-free gas such as renewable natural gas and renewable hydrogen through our network to all our customers;
- enables customer use of hybrid heating by supporting customer adoption of heating technologies best suited to their needs; and
- utilises targeted electrification, including new solutions such as networked geothermal where safe and cost-effective.

Management audit

On 30 September 2019, in its decision regarding Massachusetts Electric Company and Nantucket Electric Company's most recent request for a change in base distribution rates, the MADPU required a comprehensive independent management audit of the Company, including a review of its relationship to the NGSC.

The final audit report was issued on 29 March 2021. On 30 April 2021, the Company filed a proposal for implementation of the audit's recommendations. The DPU issued a final order on 24 November 2021, directing Massachusetts Electric Company and Nantucket Electric Company to implement the recommendations contained in the Final Report and file a comprehensive update regarding implementation of the recommendations at or around the time of its next base rate proceeding.

The MADPU inquiry regarding COVID-19 customer assistance and ratemaking matters

Starting with the First Set of Orders on 24 March 2020, the Chairman of the MADPU issued a series of orders in response to the Governor's declaration of a state of emergency due to the COVID-19 pandemic. In the First Set of Orders, the MADPU prohibited the utilities from terminating service to any customer (including residential, commercial and industrial customers) for non-payment of utility bills until the state of emergency is lifted. The state extended the moratorium for residential customers several times, with the last extension until 1 July 2021, while the moratorium for commercial and industrial (C&I) expired in autumn 2020. Effective 1 July 2021, the Company resumed normal collection activities, which includes issuing notices of amounts in arrears and alerting customers that their service is subject to disconnection for non-payment.

On 31 December 2020, the MADPU approved the consensus implementation issues related to the ratemaking treatment of the COVID-19 customer assistance programmes and determined that the remaining contested issues, including the extent to which the companies will be allowed to recover their COVID-19 costs, should be fully adjudicated in a new proceeding which is currently pending before the MADPU.

Grid Modernisation Plan (GMP)

On 19 August 2015, the Company, together with Nantucket Electric, filed its first proposed GMP with the MADPU. On 10 May 2018, the MADPU issued an order in this proceeding. The order approved \$82 million in grid-facing investments over three years in: (1) conservation voltage reduction and volt/volt-amps reactive optimisation; (2) advanced distribution automation; (3) feeder monitors; (4) communications and information/operational technologies; and (5) advanced distribution management/distribution supervisory control and data acquisition. The MADPU allowed recovery of both operation and maintenance expenses and capital costs through a reconciling mechanism. The MADPU did not approve any customer-facing (i.e. advanced metering infrastructure (AMI)) investments; the DPU said it would address these in a further investigation to see if there are ways to achieve cost-effective deployment of these investments. The Company has filed annual reports and cost recovery filings with the MADPU for its GMP in 2019, 2020 and 2021. The Company filed its next proposed four-year GMP (for calendar years 2022 – 2025) on 1 July 2021, which includes proposals to continue the previously-approved investments (designated as 'Track 1' in the proceeding), invest in a distributed energy resource management system (DERMS), conduct two demonstration projects, and deploy AMI (designated as Track 2 in the proceeding). Proceedings on Track 1 have concluded, and on 30 December 2021, the MADPU issued an interim order allowing investments in Track 1 to continue pending the MADPU's final order on Track 1. The MADPU's investigation of Track 2 is ongoing, with orders expected sometime in 2022.

New York

Downstate New York 2019 rate cases

In August 2021, the NYPSC approved a three-year rate plan for our downstate New York gas businesses, commencing retroactively from 1 April 2020 through to 31 March 2023. The rate plan includes: an 8.8% RoE and 48% equity ratio; gas revenue decreases of \$4.7 million for KEDNY and \$22.8 million for KEDLI in 2020/21, gas revenue increases of \$47 million for KEDNY and \$28.9 million for KEDLI in 2021/22, and gas revenue increases of \$73.3 million for KEDNY and \$26.2 million for KEDLI in 2022/23; funding for a three-year capital plan of approximately \$2 billion for KEDNY and \$1.3 billion for KEDLI; annual reconciliation mechanisms for certain non-controllable costs (e.g. property taxes, pension/OPEBs, and site investigation remediation costs); a gas safety and reliability surcharge to recover the costs of incremental leak-prone pipe replacement; and a number of incentive mechanisms, including earnings adjustment mechanisms (EAMs), which provide a potential incentive of approximately \$3.9 million and \$2.5 million annually for KEDNY and KEDLI respectively. There is an option to extend the plan for a fourth rate year with a net plant capital tracker. The rate plan agreement includes a commitment by the Company to evaluate the impact of New York's climate laws on its gas business and infrastructure, including the depreciation of its gas assets.

NMPC rate case

In January 2022, the NYPSC approved a three-year rate settlement for NMPC's electric and gas business commencing retroactively from 1 July 2021 and continuing through 30 June 2024. The rate plan provides for electric revenue increases of \$49 million for the rate year ending 30 June 2022, \$96 million for the rate year ending 30 June 2023 and \$110 million for the rate year ending 30 June 2024, and gas revenue increases of \$13 million for the rate year ending 30 June 2022, \$29 million for the rate year ending 30 June 2023, and \$33 million for the rate year ending 30 June 2024. The rate plan includes: a 9.0% RoE and 48% equity ratio; funding for a three-year capital plan of approximately \$2.5 billion for electric and \$0.8 billion for gas; annual reconciliation mechanisms for certain non-controllable costs (e.g. property taxes, pension/OPEBs, and site investigation remediation costs); a gas safety and reliability surcharge to recover the costs of incremental leak-prone pipe replacement; and a number of incentive mechanisms, including EAMs, which provide a potential incentive of approximately \$106 million and \$8 million annually for electric and gas, respectively. The settlement also provides funding for NMPC's advanced metering infrastructure deployment in its upstate New York service territory. There is an option to extend the rate plan to 31 March 2025 and the agreement includes a commitment by the Company to evaluate the impact of New York's climate laws on its gas business and infrastructure, including the depreciation of its gas assets.

Downstate gas supply constraints

In November 2019, the Company entered into a settlement agreement with the state of New York that resolved all claims relating to KEDNY and KEDLI's imposition of restrictions on service connections implemented in 2019. A total of \$36 million in customer assistance, gas conservation measures and clean energy investments was committed by the companies, along with the appointment of an external monitor and the requirement to deliver a plan to address service to customers through winter 2020/21. In the interest of promoting transparency and to assure the public of the Company's commitment to identifying long-term solutions for the region's energy challenges, we extended the engagement of the external monitor through September 2021. The settlement agreement also provided a framework for identifying longer-term solutions to address the supply constraints in downstate New York. We developed a range of options to address the natural gas constraints facing the region, which were presented at a series of public meetings in the downstate New York service territory. KEDNY and KEDLI are now working with regulators, stakeholders and customers to implement long-term solutions to the gas supply constraints in the region. In February 2021, the NYPSC approved an amendment to the Settlement Agreement, which repurposed \$20 million of shareholder funding to offset the costs of KEDNY and KEDLI's energy efficiency and demand response programmes.

In September 2021, the monitor issued a closing report that summarised our performance under the settlement over the course of the 18-month term of the monitorship, described our efforts to implement the monitor's various recommendations, and offered new recommendations related to the ongoing efforts to meet gas demand in downstate New York.

COVID-19 response New York

The New York State Legislature, in response to the financial impacts of COVID-19 on utility customers, enacted a moratorium on service terminations for non-payment of any overdue charges for the duration of the COVID-19 state of emergency. Further, for customers who attest to a change in financial circumstances due to the COVID-19 pandemic, these protections were extended to 21 December 2021, an additional 180 days following the end of the declared state of emergency.

Fraud investigation

On 17 June 2021, five former National Grid employees in the downstate New York facilities department were arrested on federal charges alleging conspiracy and bribery. National Grid has been identified as a victim of the alleged crimes and will continue to cooperate with the government's investigation. The NYPSC is reviewing the matter and the MADPU and the RIPUC have each issued requests for information related to the alleged criminal conduct. At this time, it is not possible to predict the outcome of the regulatory review or determine the amount, if any, of any potential liabilities that may be incurred by the Company related to this matter. However, we do not expect this matter will have a material adverse effect on the Company's results of operations, financial position or cash flows.

Other important regulatory updates

On 12 February 2021, the Department of Public Service Staff issued white papers on gas system planning that propose:

- a process for modernising the long-term gas planning process in New York; and
- procedures for managing future moratoria on new gas service connections resulting from supply constraints.

'The Gas Planning Paper' proposes significant changes to the reporting and regulatory oversight for gas supply planning, including that the NYPSC direct New York's distribution companies to begin filing long-term supply plans every three years. These supply plans would be similar in many respects to our long-term report for downstate New York, in terms of identifying and analysing various supply options to address different demand scenarios. The NYPSC proposes potential financial incentive mechanisms for developing non-pipeline alternatives, including potential incentives for sourcing renewable natural gas and promoting electrification. 'The Moratorium Paper' proposes a roadmap for managing future moratoria, including requirements for stakeholder notifications, communications plans and applicant management. An NYPSC decision in this proceeding is pending.

In September 2021, the NYPSC approved Niagara Mohawk's petition seeking approval to dispatch and market the output from a Company-owned energy storage facility into the wholesale markets administered by the New York Independent System Operator, Inc. (NYISO). The facility consists of a single 2MW/3MWh energy storage unit that was installed to mitigate a potential thermal overload of a substation transformer but is only needed for local reliability support during the summer months of June to September. The NYPSC authorised the Company to bid the energy, capacity and/or ancillary services available from the facility into the NYISO-administered wholesale markets when not needed for local reliability support with the financial gains from any such market transactions accruing entirely to the benefit of Niagara Mohawk's customers. This authorisation for dual participation will provide financial benefits to the Company's customers that funded the facility and will provide valuable learning opportunities in advance of managing the third-party-owned bulk energy storage projects being procured through competitive requests for proposals pursuant to NYPSC orders.

In addition, in October 2021, KEDNY and KEDLI filed to secure approval for a demand-side management programme that would deploy unprecedented levels of non-infrastructure solutions (e.g. the energy efficiency and demand response programme) to meet customers' energy needs and address a looming gas capacity shortfall on the Company's systems in a manner that supports New York's aggressive climate goals. A NYPSC decision is pending.

Rhode Island

Rhode Island combined gas and electric rate case

On 24 August 2018, the RIPUC approved the terms of an Amended Settlement Agreement (ASA), which took effect on 1 September 2018. We are currently in year four of the Company's multi-year rate plan. On 30 June 2021, the Division consented to an extension of the term of the rate plan such that the Company is not required to file its next rate case so that new rates take effect no later than 1 September 2022. The ASA will remain in effect and the Company will continue to operate under the current rate plan until a new rate plan is approved by the RIPUC. The Company filed a copy of the Division consent letter with the RIPUC on 15 July 2021. Base distribution rates will remain at the Rate Year 3 levels until the next base rate case. The ASA includes an Electric Transportation Initiative (ET Initiative) to facilitate the growth of EV options and scaling of the market for EV charging equipment to advance Rhode Island's zero emission vehicles and greenhouse gas emissions policy goals. The ET Initiative includes the following five components:

- off-Peak Charging Rebate Pilot;
- charging Station Demonstration Programme;
- discount Pilot for Direct Current Fast Charging (DCFC) Station Accounts;
- fleet Advisory Services; and
- electric Transportation Initiative Evaluation.

As of the end of Rate Year 2, the Charging Station Demonstration Programme achieved 72% of ET Initiative targets for Level 2 ports and 7% of the target for DCFC ports. The ASA also includes two energy storage demonstration projects because storage is critical for achieving Rhode Island's clean energy future, as it provides the ability to optimise system performance over time and allows intermittent renewable resources to make a larger contribution to the State's overall energy supply mix.

Rhode Island Aquidneck Island gas service interruption

On 21 January 2019, we suffered a significant loss of gas supply to the distribution system that serves our customers on Aquidneck Island in Rhode Island. As a result, we made the decision to interrupt the gas service to the Aquidneck Island system to protect the safety of our customers and the public. Overall, approximately 7,500 customers lost their gas service. On 23 September 2020, we published a long-term capacity study for energy solutions for Aquidneck Island for stakeholder feedback. The Company has since gathered extensive stakeholder feedback regarding a long-term solution for Aquidneck Island and has identified the solution, which it shared with stakeholders in October 2021.

Power Sector Transformation/Advanced Metering Functionality and Grid Modernisation Plan

On 27 November 2017, we filed a Power Sector Transformation (PST) Vision and Implementation Plan (PST Plan) in conjunction with our combined gas and electric rate case. The PST Plan proposed a suite of investments, including the full deployment of Advanced Metering Functionality (AMF) and grid modernisation investments. On 21 January 2021, following more than two years of extensive collaboration with regulators and key stakeholders, we filed an Updated AMF Business Case and GMP with the RIPUC. The Updated AMF Business Case provides a detailed plan to provide customers with greater control, choice and convenience in their energy consumption through the full-scale deployment of approximately 525,000 electric AMF meters, 277,000 gas modules and the associated communications network. GMP presents a 5-year implementation plan, and a 10-year roadmap of investments necessary to manage the electric distribution grid more granularly considering a range of Distributed Energy Resource (DER) adoption levels through 2030, as well as a comprehensive cost benefit analysis. Cost recovery for the specific projects and programmes in the GMP will be separately requested as part of future Infrastructure, Safety and Reliability (ISR Plans) or rate cases. Pursuant to written order issued on 14 July 2021, the RIPUC stayed the AMF and GMP proceedings pending further consideration following the issuance of a final order by the Division on the PPL Transaction. The RIPUC did not rule on whether or not to consolidate the matters.

Infrastructure, Safety and Reliability Plans

FY 2023 Gas and Electric ISR Plans were filed on 17 and 20 December 2021 respectively for effect 1 April 2022. The Electric ISR Plan proposed capital spending of \$104.8 million, plus \$13.2 million for total operation and maintenance expenses. The Gas ISR Plan proposed total capital spending of \$175.66 million. The RIPUC approved the Gas and Electric ISR Plans on 29 March 2022. There will be a further hearing for the Gas ISR Plan on one issue on 1 June 2022. The RIPUC's ruling on the Electric ISR Plan required the Company to review all distributed generation (DG) projects for which the CIAC did not cover the full cost of the project, reasons why, impact on rate base and associated revenue requirement. The Company is required to file a report on this by 1 August 2022.

COVID-19 response in Rhode Island

In response to the COVID-19 emergency, effective on 16 March 2020, the RIPUC ordered all electric and natural gas utilities to immediately cease certain collection activities, including termination of service for non-payment. On 13 July 2020, the RIPUC, after finding that an emergency still existed for customers eligible for the low-income rate, extended the moratorium on utility shut-offs until 1 November 2020 for customers qualifying for a low-income discount and until 30 September 2020 for remaining residential customers of National Grid. All COVID-19-related moratoria have now expired, and the Company has resumed collection activities.

Federal Energy Regulatory Commission

Complaints on New England transmission allowed RoE

In September 2011, December 2012, July 2014 and April 2016, a series of four complaints were filed with FERC against certain transmission owners, including our New England electricity transmission business. These complaints aimed to lower the base RoE, which FERC had authorised at 11.14% prior to the first complaint. FERC issued orders resolving only the first complaint, with the last order in March 2015, lowering the base RoE to 10.57%. A number of parties, including the Company, appealed FERC's order on the first complaint to the US federal court. On 14 April 2017, the court vacated FERC's order and remanded the first complaint back to FERC. This required FERC to reconsider the methodology it adopted in its order. On 5 June 2017, the New England Transmission Owners (NETOs), including the Company, submitted a filing to FERC to document the reinstatement of their transmission rates that had been in effect on 15 October 2014. FERC denied this filing and stated that, until further notice, the base RoE in New England must remain at the filed rate of 10.57%. On 6 November 2017, the NETOs, including the Company, sought rehearing of the FERC order denying the filing to reinstate their transmission rates that previously had been in effect.

The business in detail continued

On 28 August 2020, after determining that this rehearing request had been deemed denied, the NETOs, including the Company, appealed to a US federal court FERC's order denying the filing to reinstate their transmission rates that previously had been in effect. On 2 October 2020, in response to an unopposed motion by FERC, the US federal court held this appeal in abeyance for four months.

On 16 October 2018, FERC issued a Preliminary Order Directing Brief on our four New England RoE complaints. In this order, FERC proposed a new methodology for determining whether an existing RoE remains just and reasonable and also for determining a new RoE where an existing RoE is found to be unjust and unreasonable. FERC also proposed to set the base RoE in New England at 10.41% with a 13.08% cap on incentives. Briefs were due in January 2019 and responses to the briefs were filed on 8 March

2019. FERC is under no deadline to act on the briefs and it is too early to determine when or how FERC will come to a decision.

On 21 November 2019, FERC issued an order addressing customer complaints involving the transmission RoE for the transmission owners in the Midcontinent Independent System Operator region (MISO TOs). FERC issued an order on rehearing addressing the initial order on 21 May 2020. On 19 November 2020, FERC issued a further order on rehearing reaching the same result as the 21 May 2020 order. In those orders, FERC adopted a revised methodology for determining base RoEs for the MISO TOs. This differed significantly from the methodology and framework set forth in its 16 October 2018 Preliminary Order, which proposed a new RoE methodology in the dockets covering the four RoE complaints against the NETOs. On 23 December 2019, the NETOs filed

a Supplemental Paper Hearing Brief and a Motion to Supplement the Record in the NETOs' RoE dockets to respond to the new methodology adopted in the November 2019 MISO TOs' order, as there is uncertainty as to whether the outcome in that proceeding may be applied to the NETOs' cases. Further changes to the FERC RoE methodology applicable to the Company are possible as a result of the orders in the MISO TOs' proceeding and the issues raised in pending pleadings in the NETOs' proceedings. Given the significant uncertainty relating to FERC's methodology, the Company is unable to predict the potential effect of the 21 November 2019, 21 May 2020 and 19 November 2020 MISO TO orders on the NETOs' RoE dockets or the outcome of the four complaints. Further, the Company cannot reasonably estimate a range of gain or loss for any of the four complaint proceedings.

Summary of US price controls and rate plans

		2018	2019	2020	2021	2022	2023	2024	Rate base (31 Mar 2022)	Equity-to-debt ratio	Allowed Return on Equity	Achieved Return on Equity (31 Mar 2022)	Revenue decoupling†	Capital tracker‡	Commodity- related bad debt true-up§	Pension/OPEB true-up¶
New York Public Service Commission	Niagara Mohawk ¹ (upstate, electricity)	●		◆	◆			◆	\$6,603m	48:52	9.0%	8.5%	✓	P	P	✓
	Niagara Mohawk (upstate, gas)	●		◆	◆			◆	\$1,584m	48:52	9.0%	8.1%	✓	P	P	✓
	KEDNY (downstate) ²		◆	●				◆	\$5,429m	48:52	8.8%	8.1%	P	P	P	✓
	KEDLI (downstate) ³		◆	●				◆	\$3,369m	48:52	8.8%	11.0%	P	P	P	✓
Massachusetts Department of Public Utilities	Massachusetts Electric/Nantucket Electric	◆	●					◆	\$3,049m	53:47	9.6%	7.1%	✓	P	✓	✓
	Massachusetts Gas	◆	●		●			◆	\$3,820m	53:47	9.7%	6.9%	✓	P	✓	✓
Rhode Island Public Utilities Commission	Narragansett Electric	●							\$983m	51:49	9.3%	8.4%	✓	✓	P	✓
	Narragansett Gas	●							\$1,218m	51:49	9.3%	8.4%	✓	✓	P	✓
Federal Energy Regulatory Commission	Narragansett								\$788m	50:50	10.6%	12.5%	n/a	✓	n/a	✓
	Canadian Interconnector/Other ⁴								\$46m	65:35	11.1%	11.1%	n/a	✓	n/a	✓
	New England Power								\$2,260m	63:37	10.6%	10.9%	n/a	✓	n/a	✓
	Long Island Generation								\$426m	48:52	9.9%	14.1%	n/a	✓	n/a	✓

- Both transmission and distribution, excluding stranded costs.
- KeySpan Energy Delivery New York (the Brooklyn Union Gas Company).
- KeySpan Energy Delivery Long Island (KeySpan Gas East Corporation).
- Equity ratio and Return on Equity values are for the Canadian Interconnector only.

- ◆ Rate filing made
- New rates effective
- ◆ Rate plan ends
- Rates continue indefinitely
- Multi-year rate plan
- ✓ Feature in place
- P Feature partially in place

†Revenue decoupling

A mechanism that removes the link between a utility's revenue and sales volume so that the utility is indifferent to changes in usage. Revenues are reconciled to a revenue target, with differences billed or credited to customers. This allows the utility to support energy efficiency.

‡Capital tracker

A mechanism that allows the recovery of the revenue requirement of incremental capital investment above that embedded in base rates, including depreciation, property taxes and a return on the incremental investment.

§Commodity-related bad debt true-up

A mechanism that allows a utility to reconcile commodity-related bad debt either to actual commodity-related bad debt or to a specified commodity-related bad debt write-off percentage. For electricity utilities, this mechanism also includes working capital.

¶Pension/OPEB true-up

A mechanism that reconciles the actual non-capitalised costs of pension and OPEB and the actual amount recovered in base rates. The difference may be amortised and recovered over a period or deferred for a future rate case.

Internal control and risk factors

Disclosure controls

Our management, including the Chief Executive and Chief Financial Officer, have evaluated the effectiveness of the design and operation of our disclosure controls and procedures as at 31 March 2022. Our disclosure controls and procedures are designed to provide reasonable assurance of achieving their objectives; however, their effectiveness has limitations, including the possibility of human error and the circumvention or overriding of the controls and procedures.

Even effective disclosure controls and procedures provide only reasonable assurance of achieving their objectives. Based on the evaluation, the Chief Executive and Chief Financial Officer concluded that the disclosure controls and procedures are effective to provide reasonable assurance that information required for disclosure in the reports that we file and submit under the Exchange Act is recorded, processed, summarised and reported as and when required and that such information is accumulated and communicated to our management, including the Chief Executive and Chief Financial Officer, as appropriate, to allow timely decisions regarding disclosure.

Internal control over financial reporting

Our management, including the Chief Executive and Chief Financial Officer, have carried out an evaluation of our internal control over financial reporting pursuant to the Disclosure Guidance

and Transparency Rules sourcebook and Section 404 of the Sarbanes-Oxley Act 2002. As required by Section 404, management is responsible for establishing and maintaining an adequate system of internal control over financial reporting (as defined in Rules 13(a)-5(f) and 15(d)-15(f) under the Exchange Act).

Our internal control over financial reporting is designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes, in accordance with generally accepted accounting principles.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Management's evaluation of the effectiveness of the Company's internal control over financial reporting was based on the revised Internal Control-Integrated Framework 2013 issued by the Committee of Sponsoring Organizations of the Treadway Commission. Using this evaluation, management concluded that our internal control over financial reporting was effective as at 31 March 2022.

Deloitte LLP, which has audited our consolidated financial statements for the year ended 31 March 2022, has also audited the effectiveness of our internal control over financial reporting.

During the year, we implemented a new enterprise resource planning (ERP) and general ledger system in the UK for ET and GT, resulting in changes to our reporting system; subject to that, there were no changes in our internal control over financial reporting that have materially affected, or are reasonably likely to materially affect, our internal control over financial reporting.

Risk factors

Management of our risks is an important part of our internal control environment, as we describe on pages 28 – 32. In addition to the principal risks listed, we face a number of inherent risks that could have a material adverse effect on our business, financial condition, results of operations and reputation, as well as the value and liquidity of our securities.

Any investment decision regarding our securities and any forward-looking statements made by us should be considered in the light of these risk factors and the cautionary statement set out on page 288. An overview of the key inherent risks we face is provided below.

Risk factors

Law, regulation and political and economic uncertainty

Changes in law or regulation, or decisions by governmental bodies or regulators and increased political and economic uncertainty, could materially adversely affect us.

Most of our businesses are utilities or networks subject to regulation by governments and other authorities. Changes in law or regulation or regulatory policy and precedent (including changes arising as a result of the UK's exit from the European Union), as well as legislation introduced to facilitate the attainment of net zero emissions targets, and decisions of governmental bodies or regulators in the countries or states in which we operate could materially adversely affect us. We may fail to deliver any one of our customer, investor and wider stakeholder propositions due to increased political and economic uncertainty.

If we fail to respond to or meet our own commitments as a leader in relation to climate change and the energy transition, we may be unable to influence future energy policy and deliver our strategy.

Decisions or rulings concerning the following (as examples) could have a material adverse impact on our results of operations, cash flows, the financial condition of our businesses and the ability to develop those businesses in the future:

- the determination and implementation of the RIIO-T2 and RIIO-ED2 price controls; whether licences, approvals or agreements to operate or supply are granted, amended or renewed; whether consents for construction projects are granted in a timely manner; or whether there has been any breach of the terms of a licence, approval or regulatory requirement; and
- timely recovery of incurred expenditure or obligations; the ability to pass through commodity costs; a decoupling of energy usage and revenue, and other decisions relating to the impact of general economic conditions on us, our markets and customers; implications of climate change and of advancing energy technologies; whether aspects of our activities are contestable; and the level of permitted revenues and dividend distributions for our businesses and in relation to proposed business development activities.

For further information, see pages 245– 252, which explain our regulatory environment in detail.

Potentially harmful activities

Aspects of the work we do could potentially harm employees, contractors, members of the public or the environment.

Potentially hazardous activities that arise in connection with our business include: the generation, transmission and distribution of electricity; and the storage, transmission and distribution of gas. Electricity and gas utilities also typically use and generate hazardous and potentially hazardous products and by-products. In addition, there may be other aspects of our operations that are not currently regarded or proved to have adverse effects but could become so, such as the effects of electric and magnetic fields.

A significant safety or environmental incident, or the failure of our safety processes or of our occupational health plans, as well as the breach of our regulatory or contractual obligations or our climate change targets, could materially adversely affect our results of operations and our reputation.

Safety is a fundamental priority for us, and we commit significant resources and expenditure to ensuring process safety; to monitoring personal safety, occupational health and environmental performance; and to meeting our obligations under negotiated settlements.

We are subject to laws and regulations in the UK and US governing health and safety matters to protect the public and our employees and contractors, who could potentially be harmed by these activities, as well as laws and regulations relating to pollution, the protection of the environment, and the use and disposal of hazardous substances and waste materials.

These expose us to costs and liabilities relating to our operations and properties, including those inherited from predecessor bodies, whether currently or formerly owned by us, and sites used for the disposal of our waste.

The cost of future environmental remediation obligations is often inherently difficult to estimate, and uncertainties can include the extent of contamination, the appropriate corrective actions and our share of the liability. We are increasingly subject to regulation in relation to climate change and are affected by requirements to reduce our own carbon emissions (including our own commitment to reduce our greenhouse gas emissions to net zero by 2050) as well as to enable reduction in energy use by our customers. If more onerous requirements are imposed or our ability to recover these costs under regulatory frameworks changes, this could have a material adverse impact on our business, reputation, results of operations and financial position.

Infrastructure and IT systems

We may suffer a major network failure or interruption, or may not be able to carry out critical operations due to the failure of infrastructure, data or technology or a lack of supply.

Operational performance could be materially adversely affected by: a failure to maintain the health of our assets or networks; inadequate forecasting of demand and inadequate record keeping or control of data or failure of information systems and supporting technology. This, in turn, could cause us to fail to meet agreed standards of service, incentive and reliability targets, or be in breach of a licence, approval, regulatory requirement or contractual obligation. Even incidents that do not amount to a breach could result in adverse regulatory and financial consequences, as well as harming our reputation.

Where demand for electricity or gas exceeds supply, including where we do not adequately forecast and respond to disruptions in energy supplies, and our balancing mechanisms are not able to mitigate this fully, a lack of supply to consumers may damage our reputation.

In addition to these risks, we may be affected by other potential events that are largely outside our control, weather (including as a result of climate change and major storms), unlawful or unintentional acts of third parties, insufficient or unreliable supply, or force majeure.

Weather conditions can affect financial performance, and severe weather that causes outages or damages infrastructure, together with our actual or perceived response, could materially adversely affect operational and potentially business performance and our reputation.

Malicious attack, sabotage or other intentional acts, including breaches of our cyber security, may also damage our assets (which include critical national infrastructure) or otherwise significantly affect corporate activities and, as a consequence, have a material adverse impact on our reputation, business, results of operations and financial condition.

Unauthorised access to, or deliberate breaches of, our IT systems may also lead to manipulation of our proprietary business data or customer information. Unauthorised access to private customer information may make us liable for a violation of data privacy regulations. Even where we establish business continuity controls and security against threats to our systems, these may not be sufficient.

Pandemics

We face risks related to health epidemics and other outbreaks.

As seen in the context of COVID-19, pandemics and their associated counter-measures may affect countries, communities, supply chains and markets, including the UK and our service territory in the US. The spread of such pandemics could have adverse effects on our workforce, which could affect our ability to maintain our networks and provide service. In addition, disruption of supply chains could adversely affect our systems or networks.

Pandemics such as COVID-19 can also result in extraordinary economic circumstances in our markets which could negatively affect our customers' ability to pay our invoices in the US or the charges payable to the system operators for transmission services in the UK. Measures such as the suspension of debt collection and customer termination activities across our service area in response to such pandemics are likely to result in near-term lower customer collections, and could result in increasing levels of bad debt and associated provisions.

The extent to which pandemics such as COVID-19 may affect our liquidity, business, financial condition, results of operations and reputation will depend on future developments, which are highly uncertain and cannot be predicted, and will depend on the severity of the relevant pandemic, the scope, duration, cost to National Grid and overall economic impact of actions taken to contain it or treat its effects.

Business performance

Current and future business performance may not meet our expectations or those of our regulators and shareholders.

Earnings maintenance and growth from our regulated gas and electricity businesses will be affected by our ability to meet or exceed efficiency targets and service quality standards set by, or agreed with, our regulators.

If we do not meet these targets and standards, or if we are not able to deliver our rate plans strategy successfully, we may not achieve the expected benefits, our business may be materially adversely affected and our performance, results of operations and reputation may be materially harmed and we may be in breach of regulatory or contractual obligations.

Growth and business development activity

Failure to respond to external market developments and execute our growth strategy may negatively affect our performance. Conversely, new businesses or activities that we undertake alone or with partners may not deliver target outcomes and may expose us to additional operational and financial risk.

Failure to grow our core business sufficiently and have viable options for new future business over the longer term, or failure to respond to the threats and opportunities presented by emerging technology or innovation (including for the purposes of adapting our networks to meet the challenges of increasing distributed energy resources), could negatively affect the Group's credibility and reputation and jeopardise the achievement of intended financial returns.

Our business development activities, including the WPD Acquisition, the NECO Sale, the NGGT Sale and the delivery of our growth ambition, involve acquisitions, disposals, joint ventures, partnering and organic investment opportunities, such as development activities relating to changes to the energy mix and the integration of distributed energy resources and other advanced technologies. These are subject to a wide range of both external uncertainties (including the availability of potential investment targets and attractive financing and the impact of competition for onshore transmission in both the UK and US) and internal uncertainties (including actual performance of our existing operating companies and our business planning model assumptions and ability to integrate acquired businesses effectively). As a result, we may suffer unanticipated costs and liabilities and other unanticipated effects.

We may also be liable for the past acts, omissions or liabilities of companies or businesses we have acquired, which may be unforeseen or greater than anticipated. In the case of joint ventures, we may have limited control over operations and our joint venture partners may have interests that diverge from our own.

The occurrence of any of these events could have a material adverse impact on our results of operations or financial condition, and could also impact our ability to enter into other transactions.

Financing and liquidity

An inability to access capital markets at commercially acceptable interest rates could affect how we maintain and grow our businesses.

Our businesses are financed through cash generated from our ongoing operations, bank lending facilities and the capital markets, particularly the long-term debt capital markets.

Some of the debt we issue is rated by credit rating agencies, and changes to these ratings may affect both our borrowing capacity and borrowing costs. In addition, restrictions imposed by regulators may also limit how we service the financial requirements of our current businesses or the financing of newly acquired or developing businesses.

Financial markets can be subject to periods of volatility and shortages of liquidity, for example, as a result of unexpected political or economic events or the COVID-19 pandemic. If we were unable to access the capital markets or other sources of finance at commercially acceptable rates for a prolonged period, our cost of financing may increase, the discretionary and uncommitted elements of our proposed capital investment programme may need to be reconsidered, and the manner in which we implement our strategy may need to be reassessed.

Such events could have a material adverse impact on our business, results of operations and prospects.

Some of our regulatory agreements impose lower limits for the long-term unsecured debt credit ratings that certain companies within the Group must hold or the amount of equity within their capital structures, including a limit requiring National Grid plc to hold an investment-grade long-term senior unsecured debt credit rating.

In addition, some of our regulatory arrangements impose restrictions on the way we can operate. These include regulatory requirements for us to maintain adequate financial resources within certain parts of our operating businesses and may restrict the ability of National Grid plc and some of our subsidiaries to engage in certain transactions, including paying dividends, lending cash and levying charges.

The inability to meet such requirements, or the occurrence of any such restrictions, may have a material adverse impact on our business and financial condition.

Our debt agreements and banking facilities contain covenants, including those relating to the periodic and timely provision of financial information by the issuing entity, restrictions on disposals and financial covenants, such as restrictions on the level of subsidiary indebtedness.

Failure to comply with these covenants, or to obtain waivers of those requirements, could in some cases trigger a right, at the lender's discretion, to require repayment of some of our debt and may restrict our ability to draw upon our facilities or access the capital markets.

Exchange rates, interest rates and commodity price indices

Changes in foreign currency rates, interest rates or commodity prices could materially impact earnings or our financial condition.

We have significant operations in the US and are therefore subject to the exchange rate risks normally associated with non-UK operations including the need to translate US assets, liabilities, income and expenses into sterling (our reporting currency).

In addition, our results of operations and net debt position may be affected because a significant proportion of our borrowings, derivative financial instruments and commodity contracts are affected by changes in interest rates, commodity price indices and exchange rates, in particular the dollar-to-sterling exchange rate.

Furthermore, our cash flow may be materially affected as a result of settling hedging arrangements entered into to manage our exchange rate, interest rate and commodity price exposure, or by cash collateral movements relating to derivative market values, which also depend on the sterling exchange rate into the euro and other currencies.

Internal control and risk factors continued

Post-retirement benefits

We may be required to make significant contributions to fund pension and other post-retirement benefits.

We participate in a number of pension schemes that together cover substantially all our employees. In both the UK and US, such schemes include various large defined benefit schemes where the scheme assets are held independently of our own financial resources.

In the US, we also have other post-retirement benefit schemes. Estimates of the amount and timing of future funding for the UK and US schemes are based on actuarial assumptions and other factors, including: the actual and projected market performance of the scheme assets; future long-term bond yields; average life expectancies; and relevant legal requirements.

Actual performance of scheme assets may be affected by volatility in debt and equity markets.

Changes in these assumptions or other factors may require us to make additional contributions to these pension schemes which, to the extent they are not recoverable under our price controls or state rate plans, could materially adversely affect the results of our operations and financial condition.

Customers and counterparties

Customers and counterparties may not perform their obligations.

Our operations are exposed to the risk that customers, suppliers, banks and other financial institutions, and others with whom we do business, will not satisfy their obligations, which could materially adversely affect our financial position.

This risk is significant where our subsidiaries have concentrations of receivables from gas and electricity utilities and their affiliates, as well as industrial customers and other purchasers, and may also arise where customers are unable to pay us as a result of increasing commodity prices or adverse economic conditions.

To the extent that counterparties are contracted with for physical commodities (gas and electricity) and they experience events that impact their own ability to deliver, we may suffer supply interruption as described in Infrastructure and IT systems on page 254.

There is also a risk to us where we invest excess cash or enter into derivatives and other financial contracts with banks or other financial institutions. Banks who provide us with credit facilities may also fail to perform under those contracts.

Employees and others

We may fail to attract, develop and retain employees with the competencies (including leadership and business capabilities), values and behaviours required to deliver our strategy and vision and ensure they are engaged to act in our best interests.

Our ability to implement our strategy depends on the capabilities and performance of our employees and leadership at all levels of the business. Our ability to implement our strategy and vision may be negatively affected by the loss of key personnel or an inability to attract, integrate, engage and retain appropriately qualified personnel (including people with the skills to help us deliver on our net zero commitments) or if significant disputes arise with our employees.

As a result, there may be a material adverse effect on our business, financial condition, results of operations and prospects.

There is a risk that an employee or someone acting on our behalf may breach our internal controls or internal governance framework, or may contravene applicable laws and regulations. This could have an impact on the results of our operations, our reputation and our relationship with our regulators and other stakeholders.

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Shareholder information

Articles of Association

The following description is a summary of the material terms of our Articles of Association (Articles) and applicable English law. It is a summary only and is qualified in its entirety by reference to the Articles.

At the 2021 AGM, the Company's shareholders approved updated Articles which now take account of recent changes to company law and market changes, including in particular the flexibility for the Company to hold general meetings by allowing combined physical and electronic general meetings (also known as 'hybrid' meetings).

Summary

The Articles set out the Company's internal regulations. Copies are available on our website and upon request. Amendments to the Articles have to be approved by at least 75% of those voting at a general meeting of the Company. Subject to company law and the Articles, the Directors may exercise all the powers of the Company. They may delegate authorities to committees and day-to-day management and decision making to individual Executive Directors. We set out the committee structure on page 91.

General

The Company is incorporated under the name National Grid plc and is registered in England and Wales with registered number 4031152. Under the Companies Act 2006, the Company's objects are unrestricted.

Directors

Under the Articles, a Director must disclose any personal interest in a matter and may not vote in respect of that matter, subject to certain limited exceptions. As permitted under the Companies Act 2006, the Articles allow non-conflicted Directors to authorise a conflict or potential conflict for a particular matter. In doing so, the non-conflicted Directors must act in a way they consider, in good faith, will be most likely to promote the success of the Company for the benefit of the shareholders as a whole.

The Directors (other than a Director acting in an executive capacity) are paid fees for their services. In total, these fees must not exceed £2,000,000 per year or any higher sum decided by an ordinary resolution at a general meeting of shareholders. In addition, special pay may be awarded to a Director who acts in an executive capacity, serves on a committee, performs services which the Directors consider to extend beyond the ordinary duties of a Director, devotes special attention to the business of National Grid, or goes or lives abroad on the Company's behalf. Directors may also receive reimbursement for expenses properly incurred, and may be awarded pensions and other benefits. The compensation awarded to the

Executive Directors is determined by the Remuneration Committee. Further details of Directors' remuneration are set out in the Directors' Remuneration Report (see pages 108 – 131).

The Directors may exercise all the powers of National Grid to borrow money. However, the aggregate principal amount of all the Group's borrowings outstanding at any time must not exceed £55 billion or any other amount approved by shareholders by an ordinary resolution at a general meeting.

Directors can be appointed or removed by the Board or shareholders at a general meeting. Directors must stand for election at the first AGM following their appointment to the Board and the Articles provide, in line with market practice, that they must be recommended by the Board or the Company must have received written confirmation of their willingness to act as Director. Each Director must retire at least every three years, although they will be eligible for re-election. In accordance with best practice introduced by the UK Corporate Governance Code, all Directors wishing to continue in office currently offer themselves for re-election annually. No person is disqualified from being a Director or is required to vacate that office by reason of attaining a maximum age.

A Director is not required to hold shares in National Grid plc in order to qualify as a Director.

Rights, preferences and restrictions

(i) Dividend rights

National Grid may not pay any dividend otherwise than out of profits available for distribution under the Companies Act 2006 and other applicable provisions of English law. In addition, as a public company, National Grid may only make a distribution if, at the time of the distribution, the amount of its net assets is not less than the aggregate of its called-up share capital and undistributable reserves (as defined in the Companies Act 2006), and to the extent that the distribution does not reduce the amount of those assets to less than that aggregate. Ordinary shareholders and American Depositary Share (ADS) holders receive dividends.

Subject to these points, shareholders may, by ordinary resolution, declare dividends in accordance with the respective rights of the shareholders, but not exceeding the amount recommended by the Board. The Board may pay interim dividends if it considers that National Grid's financial position justifies the payment. Any dividend or interest unclaimed for 12 years from the date when it was declared or became due for payment will be forfeited and revert to National Grid, and the Articles clarify that the Company may use such unclaimed dividends for the Company's benefit as the Directors may think fit.

(ii) Voting rights

Subject to any rights or restrictions attached to any shares and to any other provisions of the Articles, at any general meeting on a show of hands, every shareholder who is present in person will have one vote and, on a poll, every shareholder will have one vote for every share they hold. On a show of hands or poll, shareholders may cast votes either personally or by proxy. A proxy need not be a shareholder. Under the Articles, all substantive resolutions at a general meeting must be decided on a poll and the Articles further provide that voting on resolutions at a general meeting that is held at least in part using an electronic platform must be decided on a poll. Ordinary shareholders and ADS holders can vote at general meetings.

(iii) Liquidation rights

In a winding up, a liquidator may (in each case with the sanction of a special resolution passed by the shareholders and any other sanction required under English law): (a) divide among the shareholders the whole or any part of National Grid's assets (whether the assets are of the same kind or not); the liquidator may, for this purpose, value any assets and determine how the division should be carried out as between shareholders or different classes of shareholders, or (b) transfer any part of the assets to Trustees on trust for the benefit of the shareholders as the liquidator determines. In neither case will a shareholder be compelled to accept assets upon which there is a liability.

(iv) Restrictions

There are no restrictions on the transfer or sale of ordinary shares. Some of the Company's employee share plans, details of which are contained in the Directors' Remuneration Report, include restrictions on the transfer of ordinary shares while the ordinary shares are subject to the plan. Where, under an employee share plan operated by the Company, participants are the beneficial owners of the ordinary shares but not the registered owner, the voting rights may be exercised by the registered owner at the direction of the participant. Treasury shares do not attract a vote or dividends.

(v) Variation of rights

Subject to applicable provisions of English law, the rights attached to any class of shares of National Grid may be varied or cancelled. This must be with the written consent of the holders of three quarters in nominal value of the issued shares of that class, or with the sanction of a special resolution passed at a separate meeting of the holders of the shares of that class.

Shareholder information continued

General meetings

AGMs must be convened each year within six months of the Company's accounting reference date upon 21 clear days' advance written notice. Under the Articles, any other general meeting may be convened provided at least 14 clear days' written notice is given, subject to annual approval of shareholders. In certain limited circumstances, the Company can convene a general meeting by shorter notice. The notice must specify, among other things, the nature of the business to be transacted, the place, the date and the time of the meeting. The 2022 AGM will be held as a hybrid meeting. Please ensure you continue to monitor our website at nationalgrid.com/investors for any updates to the arrangements for the AGM.

Rights of non-residents

There are no restrictions under the Articles that would limit the rights of persons not resident in the UK to vote in relation to ordinary shares.

Disclosure of interests

Under the Companies Act 2006, National Grid may, by written notice, require a person whom it has reasonable cause to believe to be or to have been, in the last three years, interested in its shares to provide additional information relating to that interest. Under the Articles, failure to provide such information may result in a shareholder losing their rights to attend, vote or exercise any other right in relation to shareholders' meetings.

Under the UK Disclosure Guidance and Transparency Rules (DTR) sourcebook, there is also an obligation on a person who acquires or ceases to have a notifiable interest in shares in National Grid to notify the Company of that fact. The disclosure threshold is 3% and disclosure is required each time the person's direct and indirect holdings reach, exceed or fall below each 1% threshold thereafter.

The UK City Code on Takeovers and Mergers imposes strict disclosure requirements regarding dealings in the securities of an offeror or offeree company, and also on their respective associates, during the course of an offer period. Other regulators in the UK, US and elsewhere may have, or assert, notification or approval rights over acquisitions or transfers of shares.

Depositary payments to the Company

The Bank of New York Mellon (the 'Depositary') reimburses the Company for certain expenses it incurs in relation to the ADS programme. The Depositary also pays the standard out-of-pocket maintenance costs for the ADSs, which consist of the expenses for the mailing of annual and interim financial reports, printing and distributing

dividend cheques, the electronic filing of US federal tax information, mailing required tax forms, stationery, postage, facsimiles and telephone calls. It also reimburses the Company for certain investor relationship programmes or special investor relations promotional activities. There are limits on the amount of expenses for which the Depositary will reimburse the Company, but the amount of reimbursement is not necessarily tied to the amount of fees the Depositary collects from investors.

For the period 19 May 2021 to 18 May 2022, the Company received a total of \$1,862,578.41 in reimbursements from the Depositary consisting of \$323,055.00, \$1,017,402.60 and \$522,120.81 received in June 2021, October 2021 and January 2022 respectively. Fees that are charged on cash dividends will be apportioned between the Depositary and the Company.

Any questions from ADS holders should be directed to the Depositary at the contact details on page 287.

Documents on display

National Grid is subject to the US Securities and Exchange Commission (SEC) reporting requirements for foreign companies. The Company's Form 20-F and other filings can be viewed on the National Grid website as well as the SEC website at sec.gov.

Description of securities other than equity securities: depositary fees and charges

The Depositary collects fees by deducting them from the amounts distributed or by selling a portion of distributable property for:

- delivery and surrender of ADSs directly from investors depositing shares or surrendering ADSs for the purpose of withdrawal or from intermediaries acting for them; and
- making distributions to investors (including, it is expected, cash dividends).

The Depositary may generally refuse to provide fee-attracting services until its fees for those services are paid.

The Company's Deposit agreement under which the ADSs are issued allows a fee of up to \$0.05 per ADS to be charged for any cash distribution made to ADS holders, including cash dividends. ADS holders who receive cash in relation to the 2021/22 final dividend will be charged a fee of \$0.02 per ADS by the Depositary prior to distribution of the cash dividend.

Persons depositing or withdrawing shares must pay:	For:
\$5.00 per 100 ADSs (or portion of 100 ADSs)	Issuance of ADSs, including issuances resulting from a distribution of shares or rights or other property; cancellation of ADSs for the purpose of withdrawal, including if the Deposit agreement terminates; and distribution of securities distributed to holders of deposited securities that are distributed by the Depositary to ADS holders.
Registration or transfer fees	Transfer and registration of shares on our share register to or from the name of the Depositary or its agent when they deposit or withdraw shares.
Expenses of the Depositary	Cable, telex and facsimile transmissions (when expressly provided in the Deposit agreement); and converting foreign currency to dollars.
Taxes and other governmental charges the Depositary or the Custodian has to pay on any ADS or share underlying an ADS, for example stock transfer taxes, stamp duty or withholding taxes	As necessary.

Events after the reporting period

There were no events after the reporting period.

Exchange controls

There are currently no UK laws, decrees or regulations that restrict the export or import of capital, including, but not limited to, foreign exchange control restrictions, or that affect the remittance of dividends, interest or other payments to non-UK resident holders of ordinary shares except as otherwise set out in Taxation on pages 260 and 261 and except in respect of the governments of and/or certain citizens, residents or bodies of certain countries (described in applicable Bank of England Notices or European Union Council Regulations in force as at the date of this document).

Share information

National Grid ordinary shares are listed on the London Stock Exchange under the symbol NG. The ADSs are listed on the New York Stock Exchange under the symbol NGG.

Material interests in shares

As at 31 March 2022, National Grid had been notified of the following holdings in voting rights of 3% or more in the issued share capital of the Company:

	Number of ordinary shares	% of voting rights ¹	Date of last notification of interest
BlackRock, Inc.	255,529,542	7.04	6 December 2021
The Capital Group Companies, Inc.	184,152,007	5.05	26 January 2022

1. This number is calculated in relation to the issued share capital at the time the holding was disclosed.

As at 18 May 2022, no further notifications have been received.

The rights attached to ordinary shares are detailed on page 257. All ordinary shares and all major shareholders have the same voting rights. The Company is not, to the best of its knowledge, directly or indirectly controlled.

Share capital

As at 18 May 2022, the share capital of the Company consists of ordinary shares of 12^{204/473} pence nominal value each and ADSs, which represent five ordinary shares each.

Authority to purchase shares

Shareholder approval was given at the 2021 AGM to purchase up to 10% of the Company's share capital (being 355,533,053 ordinary shares). The Directors intend to seek shareholder approval to renew this authority at the 2022 AGM.

In some circumstances, the Company may find it advantageous to have the authority to purchase its own shares in the market, where the Directors believe this would be in the interests of shareholders generally. The Directors believe that it is an important part of the financial management of the Company to have the flexibility to repurchase issued shares to manage its capital base, including actively managing share issuances from the operation of the scrip dividend scheme. It is expected that repurchases to manage share issuances under the scrip dividend scheme will not exceed 2.5% of the issued share capital (excluding treasury shares) per annum.

When purchasing shares, the Company has taken, and will continue to take, into account market conditions prevailing at the time, other investment and financing opportunities, and the overall financial position of the Company.

At the 2021 AGM, the Company sought authority to purchase ordinary shares in the capital of the Company as part of the management of the dilutive effect of share issuances under the scrip dividend scheme. During the year, the Company did not purchase any of its own shares.

	Number of shares	Total nominal value	% of called up share capital
Shares held in Treasury purchased in prior years ¹	265,759,757	£33,037,365.14 ²	6.97 ¹
Shares purchased and held in Treasury during the year	–	–	–
Shares transferred from Treasury during the year (to employees under employee share plans)	6,628,537	£824,012.63 ²	0.17 ³
Maximum number of shares held in Treasury during the year	265,759,757	£33,037,365.14 ²	6.81 ³

1. Called-up share capital: 3,814,951,606 ordinary shares as at 31 March 2021.

2. Nominal value: 12^{204/473} pence per ordinary share.

3. Called-up share capital: 3,904,074,348 ordinary shares as at the date of this report.

As at the date of this report, the Company held 257,369,050 ordinary shares as treasury shares. This represented 6.59% of the Company's called-up share capital.

Authority to allot shares

Shareholder approval was given at the 2021 AGM to allot shares of up to one third of the Company's share capital. The Directors are seeking this same level of authority this year. The Directors consider that the Company will have sufficient flexibility with this level of authority to respond to market developments and that this authority is in line with investor guidelines.

The Directors currently have no intention of issuing new shares or of granting rights to subscribe for or convert any security into shares. This is except in relation to, or in connection with, the operation and management of the Company's scrip dividend scheme and the exercise of options under the Company's share plans. No issue of shares will be made that would effectively alter control of the Company without the sanction of shareholders in a general meeting.

The Company expects to actively manage the dilutive effect of share issuance arising from the operation of the scrip dividend scheme. In some circumstances, additional shares may be allotted to the market for this purpose under the authority provided by this resolution. Under these circumstances, it is expected that the associated allotment of new shares (or rights to subscribe for or convert any security into shares) will not exceed 1% of the issued share capital (excluding treasury shares) per annum.

Dividend waivers

The Trustee of the National Grid Employee Share Trust, which is independent of the Company, waived the right to dividends paid during the year. They have also agreed to waive the right to future dividends, in relation to the ordinary shares and ADSs held by the trust.

Under the Company's ADS programme, the right to dividends in relation to the ordinary shares underlying the ADSs was waived during the year, under an arrangement whereby the Company pays the monies to satisfy any dividends separately to the Depositary for distribution to ADS holders entitled to the dividend. This arrangement is expected to continue for future dividends.

Shareholder information continued

Shareholder analysis

The following table includes a brief analysis of shareholder numbers and shareholdings as at 31 March 2022:

	Number of shareholders	% of shareholders ¹	Number of shares	% of shares ¹
1 – 50	141,757	19.96	4,410,988	0.11
51 – 100	177,985	25.06	12,528,070	0.32
101 – 500	302,501	42.59	63,621,498	1.63
501 – 1,000	43,615	6.14	30,360,976	0.78
1,001 – 10,000	41,714	5.87	101,954,170	2.61
10,001 – 50,000	1,678	0.24	30,965,205	0.79
50,001 – 100,000	236	0.03	17,223,477	0.44
100,001 – 500,000	424	0.06	101,578,492	2.60
500,001 – 1,000,000	132	0.02	94,228,626	2.41
1,000,001+	294	0.04	3,447,202,846	88.30
Total	710,336	100	3,904,074,348	100

1. Percentages have been rounded to two decimal places.

Taxation

This section provides information about certain US federal income tax and UK tax consequences for US Holders (defined below) of owning ADSs and ordinary shares. A US Holder is the beneficial owner of ADSs or ordinary shares who:

- is for US federal income tax purposes (i) an individual citizen or resident of the US; (ii) a corporation created or organised under the laws of the US, any state thereof or the District of Columbia; (iii) an estate, the income of which is subject to US federal income tax without regard to its source; or (iv) a trust, if a court within the US is able to exercise primary supervision over the administration of the trust and one or more US persons have the authority to control all substantial decisions of the trust, or the trust has elected to be treated as a domestic trust for US federal income tax purposes;
- is not resident in the UK for UK tax purposes; and
- does not hold ADSs or ordinary shares in connection with the conduct of a business or the performance of services in the UK or otherwise in connection with a branch, agency or permanent establishment in the UK.

This section is not a comprehensive description of all the US federal income tax and UK tax considerations that may be relevant to any particular investor (including consequences under the US alternative minimum tax or net investment income tax). Neither does it address state, local or other tax laws. National Grid has assumed that shareholders, including US Holders, are familiar with the tax rules applicable to investments in securities generally and with any special rules to which they may be subject. This discussion deals only with US Holders who hold ADSs or ordinary shares as capital assets. It does not address the tax treatment of investors who are subject to special rules. Such investors may include:

- financial institutions;
- insurance companies;
- dealers in securities or currencies;
- investors who elect mark-to-market treatment;
- entities treated as partnerships or other pass-through entities and their partners;
- individual retirement accounts and other tax-deferred accounts;
- tax-exempt organisations;
- investors who own (directly or indirectly) 10% or more of our shares (by vote or value);
- investors who hold ADSs or ordinary shares as a position in a straddle, hedging transaction or conversion transaction;
- individual investors who have ceased to be resident in the UK for a period of five years or less;
- persons that have ceased to be US citizens or lawful permanent residents of the US; and
- US Holders whose functional currency is not the US dollar.

The statements regarding US and UK tax laws and administrative practices set forth below are based on laws, treaties, judicial decisions and regulatory interpretations that were in effect on the date of this document. These laws and practices are subject to change without notice, potentially with retroactive effect. In addition, the statements set forth below are based on the representations of the Depositary and assume that each party to the Deposit agreement will perform its obligations thereunder in accordance with its terms.

US Holders of ADSs generally will be treated as the owners of the ordinary shares represented by those ADSs for US federal income tax purposes. For the purposes of the Tax Convention, the Estate Tax Convention and UK tax considerations, this discussion assumes that a US Holder of ADSs will be treated as the owner of the ordinary shares represented by those ADSs. HMRC has stated that it will continue to apply its long-standing practice of treating a holder of ADSs as holding the beneficial interest in the ordinary shares represented by the ADSs; however, we note that this is an area of some uncertainty and may be subject to change.

US Holders should consult their own advisors regarding the tax consequences of buying, owning and disposing of ADSs or ordinary shares depending on their particular circumstances, including the effect of any state, local or other tax laws.

Taxation of dividends

The UK does not currently impose a withholding tax on dividends paid to US Holders.

US Holders should assume that any cash distribution paid by us with respect to ADSs or ordinary shares will be reported as dividend income for US federal income tax purposes. While dividend income received from non-US corporations is generally taxable to a non-corporate US Holder as ordinary income for US federal income tax purposes, dividend income received by a non-corporate US Holder from us generally will be taxable at the same favourable rates applicable to long-term capital gains provided (i) either: (a) we are eligible for the benefits of the Tax Convention or (b) ADSs or ordinary shares are treated as 'readily tradable' on an established securities market in the US; and (ii) we are not, for our taxable year during which the dividend is paid or the prior year, a passive foreign investment company for US federal income tax purposes (a PFIC), and certain other requirements are met. We expect that our shares will be treated as 'readily tradable' on an established securities market in the US as a result of the trading of ADSs on the New York Stock Exchange. We also believe we are eligible for the benefits of the Tax Convention.

Based on our audited financial statements and the nature of our business activities, we believe that we were not treated as a PFIC for US federal income tax purposes with respect to our taxable year ended 31 March 2022. In addition, based on our current expectations regarding the value and nature of our assets, the sources and nature of our income and the nature of our business activities, we do not anticipate becoming a PFIC in the foreseeable future.

Dividends received by corporate US Holders with respect to ADSs or ordinary shares will not be eligible for the dividends-received deduction that is generally allowed to corporations.

Taxation of capital gains

Subject to specific rules relating to assets that derive at least 75% of their value from UK land, US Holders will not be subject to UK taxation on any capital gain realised on the sale or other disposition of ADSs or ordinary shares.

Provided that we are not a PFIC for any taxable year during which a US Holder holds their ADSs or ordinary shares, upon a sale or other disposition of ADSs or ordinary shares, a US Holder generally will recognise a capital gain or loss for US federal income tax purposes that is equal to the difference between the US dollar value of the amount realised on the sale or other disposition and the US Holder's adjusted tax basis in the ADSs or ordinary shares. Such capital gain or loss generally will be long-term

capital gain or loss if the ADSs or ordinary shares were held for more than one year. For non-corporate US Holders, long-term capital gain is generally taxed at a lower rate than ordinary income. A US Holder's ability to deduct capital losses is subject to significant limitations.

US information reporting and backup withholding tax

Dividend payments made to US Holders and proceeds paid from the sale, exchange, redemption or disposal of ADSs or ordinary shares to US Holders may be subject to information reporting to the US Internal Revenue Service (IRS). Such payments may be subject to backup withholding taxes if the US Holder fails to provide an accurate taxpayer identification number or certification of exempt status or fails to comply with applicable certification requirements.

US Holders should consult their tax advisors about these rules and any other reporting obligations that may apply to the ownership or disposition of ADSs or ordinary shares. Such obligations include reporting requirements related to the holding of certain foreign financial assets.

UK stamp duty and stamp duty reserve tax (SDRT)

Transfers of ordinary shares

SDRT at the rate of 0.5% of the amount or value of the consideration will generally be payable on any agreement to transfer ordinary shares that is not completed using a duly stamped instrument of transfer (such as a stock transfer form).

The SDRT liability will be cancelled where an instrument of transfer is executed and duly stamped before the expiry of the six-year period beginning with the date on which the agreement is made. If a claim is made within the specified period, any SDRT which has been paid will be refunded. SDRT is due whether or not the agreement or transfer is made or carried out in the UK and whether or not any party to that agreement or transfer is a UK resident.

Purchases of ordinary shares completed using a stock transfer form will generally result in a UK stamp duty liability at the rate of 0.5% (rounded up to the nearest £5) of the amount or value of the consideration. Paperless transfers under the CREST paperless settlement system will generally be liable to SDRT at the rate of 0.5%, and not stamp duty. SDRT is generally the liability of the purchaser, and UK stamp duty is usually paid by the purchaser or transferee.

Transfers of ADSs

No UK stamp duty will be payable on the acquisition or transfer of existing ADSs or beneficial ownership of ADSs (in each case in the form of American Depositary Receipts), provided that any instrument of transfer or written agreement to transfer is executed outside the UK and remains at all times outside the UK.

An agreement for the transfer of ADSs in the form of American Depositary Receipts will not result in an SDRT liability. A charge to stamp duty or SDRT may arise on the transfer of ordinary shares to the Depositary or The Bank of New York Mellon as agent of the Depositary (the 'Custodian').

The rate of stamp duty or SDRT will generally be 1.5% of the value of the consideration or, in some circumstances, the value of the ordinary shares concerned. However, there is no 1.5% SDRT charge on the issue of ordinary shares (or, where it is integral to the raising of new capital, the transfer of ordinary shares) to the Depositary or the Custodian.

The Depositary will generally be liable for the stamp duty or SDRT. Under the terms of the Deposit agreement, the Depositary will charge any tax payable by the Depositary or the Custodian (or their nominees) on the deposit of ordinary shares to the party to whom the ADSs are delivered against such deposits. If the stamp duty is not a multiple of £5, the duty will be rounded up to the nearest multiple of £5.

UK inheritance tax

An individual who is domiciled in the US for the purposes of the Estate Tax Convention and who is not a UK national for the purposes of the Estate Tax Convention will generally not be subject to UK inheritance tax in respect of (i) the ADSs or ordinary shares on the individual's death or (ii) a gift of the ADSs or ordinary shares during the individual's lifetime. This is not the case where the ADSs or ordinary shares are part of the business property of the individual's permanent establishment in the UK or relate to a fixed base in the UK of an individual who performs independent personal services.

Special rules apply to ADSs or ordinary shares held in trust.

In the exceptional case where the ADSs or shares are subject both to UK inheritance tax and to US federal gift or estate tax, the Estate Tax Convention generally provides for the tax paid in the UK to be credited against tax paid in the US or vice versa.

Capital gains tax (CGT) for UK resident shareholders

You can find CGT information relating to National Grid shares for UK resident shareholders on the Investors section of our website. Share prices on specific dates are also available on our website.

Other disclosures

All-employee share plans

The Company has a number of all-employee share plans as described below, which operated during the year. These allow UK- or US-based employees to participate in tax-advantaged plans and to become shareholders in National Grid.

Sharesave

UK employees are eligible to participate in the Sharesave plan. Under this plan, participants may contribute between £5 and £500 each month, for a fixed period of three years, five years or both. Contributions are taken from net salary. At the end of the fixed period, participants may use their savings to purchase ordinary shares in National Grid at a 20% discounted option price, which is set at the time of each annual Sharesave launch.

Share Incentive Plan (SIP)

UK employees are eligible to participate in the SIP. Contributions up to £150 per month are deducted from participants' gross salary and used to purchase National Grid ordinary shares each month. The shares are placed in a UK resident trust and are available to the individual with tax advantages after a five-year period.

US Incentive Thrift Plan

The Thrift Plan is open to all US employees of participating National Grid companies; this is a tax-advantaged savings plan (commonly referred to as a 401k plan). This is a defined contribution (DC) pension plan that gives participants the opportunity to invest up to applicable federal salary limits. The federal limits for calendar year 2021 were: for pre-tax contributions, a maximum of 50% of salary limited to \$19,500 for those under the age of 50 and \$26,000 for those aged 50 and above; and for post-tax contributions, up to 15% of salary. The total amount of employee contributions (pre-tax and post-tax) could not exceed 50% of compensation, and was further subject to the combined federal annual contribution limit of \$58,000. For the calendar year 2022, participants may invest up to the applicable federal salary limits: for pre-tax contributions, this is a maximum of 50% of salary limited to \$20,500 for those under the age of 50 and \$27,000 for those aged 50 and above; for post-tax contributions, this is up to 15% of salary. The total amount of employee contributions (pre-tax and post-tax) may not exceed 50% of compensation, and is further subject to the combined federal annual contribution limit of \$61,000.

US Employee Stock Purchase Plan (ESPP)

Employees of National Grid's participating US companies are eligible to participate in the ESPP (commonly referred to as a 423b plan). Eligible employees have the opportunity to purchase ADSs in National Grid on a monthly basis at a 15% discounted price. Under the plan, employees may contribute up to 20% of base pay each year, up to a maximum annual contribution of \$25,000, to purchase ADSs.

Change of control provisions

No compensation would be paid for loss of office of Directors on a change of control of the Company. As at 31 March 2022, the Company had borrowing facilities of £4.7 billion available to it with a number of banks, which, on a change of control of the Company following a takeover bid, may alter or terminate; however, the Company is currently not drawing on any of such borrowing facilities. All of the Company's share plans contain provisions relating to a change of control. Outstanding awards and options would normally vest and become exercisable on a change of control, subject to the satisfaction of any performance conditions at that time. In the event of a change of control of the Company, a number of governmental and regulatory consents or approvals are likely to be required, arising from laws or regulations of the UK or the US. Such consents or approvals may also be required for acquisitions of equity securities that do not amount to a change of control.

No other agreements that take effect, alter or terminate upon a change of control of the Company following a takeover bid are considered to be significant in terms of their potential impact on the business as a whole.

Code of Ethics

In accordance with US legal requirements, the Board has adopted a Code of Ethics for senior financial professionals. This Code is available on our website (where any amendments or waivers will also be posted). There were no amendments to, or waivers of, our Code of Ethics during the year.

Conflicts of interest

In accordance with the Companies Act 2006, the Board has a policy and procedure in place for the disclosure and authorisation (if appropriate) of actual and potential conflicts of interest. The Board continues to monitor and note possible conflicts of interest that each Director may have, including a review on appointment. The Directors are regularly reminded of their continuing obligations in relation to conflicts, and are required to review and confirm their external interests annually. During the year ended 31 March 2022, no new actual or potential conflicts of interest were identified that required approval by the Board. The Board has considered and noted a number of situations in relation to which no actual conflict of interest was identified.

Corporate governance practices: differences from New York Stock Exchange (NYSE) listing standards

The Company is listed on the NYSE and is therefore required to disclose differences in its corporate governance practices adopted as a UK listed company, compared with those of a US company. The corporate governance practices of the Company are primarily based on the requirements of the Corporate Governance Code 2018 but substantially conform to those required of US companies listed on the NYSE.

The following is a summary of the significant ways in which the Company's corporate governance practices differ from those followed by US companies under Section 303A Corporate Governance Standards of the NYSE.

The NYSE rules and the Code apply different tests for the independence of Board members.

The NYSE rules require a separate nominating/corporate governance committee composed entirely of independent directors. There is no requirement for a separate corporate governance committee in the UK. Under the Company's corporate governance policies, all Directors on the Board discuss and decide upon governance issues, and the People & Governance Committee makes recommendations to the Board with regard to certain responsibilities of a corporate governance committee.

The NYSE rules require listed companies to adopt and disclose corporate governance guidelines. While the Company reports compliance with the Code in each Annual Report and Accounts, the UK requirements do not require the Company to adopt and disclose separate corporate governance guidelines.

The NYSE rules require a separate audit committee composed of at least three independent members. While the Company's Audit & Risk Committee exceeds the NYSE's minimum independent Non-executive Director membership requirements, it should be noted that the quorum for a meeting of the Audit & Risk Committee, of two independent Non-executive Directors, is less than the minimum membership requirements under the NYSE rules.

The NYSE rules require a compensation committee composed entirely of independent directors, and prescribe criteria to evaluate the independence of the committee's members and its ability to engage external compensation advisors. While the Code prescribes different independence criteria, the Non-executive Directors on the Company's Remuneration Committee have each been deemed independent by the Board under the NYSE rules. Although the evaluation criteria for appointment of external advisors differ under the Code, the Remuneration Committee is solely responsible for the appointment, retention and termination of such advisors.

Directors' indemnity

The Company has arranged, in accordance with the Companies Act 2006 and the Articles, qualifying third-party indemnities against financial exposure that Directors may incur in the course of their professional duties. Equivalent qualifying third-party indemnities were, and remain, in force for the benefit of those Directors who stood down from the Board in prior financial years for matters arising when they were Directors of the Company. Alongside these indemnities, the Company places Directors' and Officers' liability insurance cover for each Director. To the extent appropriate and required, similar indemnities have also been given to directors of subsidiary and other associated companies, who also benefit from Directors' and Officers' liability insurance cover.

Employees

We negotiate with recognised unions. It is our policy to maintain well developed communications and consultation programmes and there have been no material disruptions to our operations from labour disputes during the past three years. National Grid believes that it can conduct its relationships with trade unions and employees in a satisfactory manner. Further details on the Company's colleagues can be found on pages 65 and 66.

Human rights

We launched our Responsible Business Charter in October 2020 focusing on five key areas. One of the areas is our people and our commitment to ensuring all our people are treated fairly and given the opportunity to thrive at work. As a responsible, purpose-led company, the way in which we conduct ourselves allows us to build trust with the people we work with by doing things in the right way, building our reputation as a responsible and ethical company that our stakeholders want to do business with and our employees want to work for.

Our employees are at the heart of what we do, which is why we're proud to be one of 173 companies and one of 50 FTSE 100 companies who participated in the 2022 Workforce Disclosure Initiative which encourages transparency from companies on how they manage workers with the goal of improving the quality of jobs in company operations and supply chains. This year we improved our Scorecard rating to 86% overall, from 82% last year, and received a special mention in the supply chain data category.

National Grid does not have direct operations in countries of high concern with respect to human rights, therefore we do not have a specific policy relating to human rights. However, respect for human rights is incorporated into our employment practices and our values. We treat everyone fairly and equally, without discrimination. Respecting others and valuing DEI are integral to our Code of Ethics and we provide unconscious bias training to all our people to build awareness of cultural differences and the importance of diversity, and the necessity of achieving equity and inclusion. Our Global Supplier Diversity Policy outlines our commitments and expectation that DEI is embedded in all aspects of business in our supply chain.

We acknowledge that there may be potential risks in our wider supply chain, and we recognise that the relationship we have with our suppliers can influence how they support our commitment to acting responsibly.

We produce an annual Modern Slavery Statement which outlines the actions we take to assess potential risk in our wider operations and take actions to address this. This includes working collaboratively in the sector through a number of membership organisations to build awareness and capability in the supply chain. In the last Business and Human Rights Resource Centre Report assessing FTSE 100 modern

slavery statements, we were recognised as one of a small cluster of leaders standing out. We publish our Statement on the Home Office modern slavery registry and encourage our suppliers to publish a statement on modern slavery regardless of whether this is a legal obligation to do so.

We are signatories to the UK Construction Protocol, which is a joint agreement with many of the largest firms in the UK construction sector focused on eradicating modern slavery and exploitation in the building industry. We are also founding signatory members of the People Matter Charter which was created to help organisations up and down the supply chain to bring challenges related to decent work together into one workforce strategy. The Charter has eight commitments that can apply to any organisation, of any size including aspects supporting human rights.

We are members of the UNGC Modern Slavery Working Group and take part in a peer review of our Modern Slavery Statement to share best practice and identify areas for improvement. We are actively involved in Utilities Against Slavery, which is a collaborative initiative aimed at working together to eradicate slavery and exploitation in the UK utilities sector and its supply chains. Through this we worked with the Supply Chain Sustainability School to deliver a series of six training sessions over six months to our shared network of suppliers.

We aim to maintain fairness across the organisation for pay and make sure our pay practices do not show bias. In the US, we pay all our employees at least the minimum wage or above the minimum wage requirements. In the UK, we are accredited Living Wage Foundation employers. Our commitment to our direct employees extends to our contractors and the work they do on behalf of National Grid and is actively promoted through our supply chain and embedded in our contract terms and conditions and contract management discussions. We believe that everyone should be appropriately rewarded for their time and effort. We also go

above the Living Wage Foundation accreditation requirements and voluntarily pay our trainees/apprentices the real living wage. We undertake a real living wage review and produce a report to the Living Wage Foundation each year to ensure continued alignment. This includes an increase to individual internal salaries as required and annual communication of the new real living wage rates to our supply chain. We include a review of implementation of the real living wage in supply chain contracts where low wages could be a risk, including our catering, cleaning, waste management and main construction contracts.

Our Supplier Code of Conduct is updated and communicated to our suppliers annually and clearly sets out our expectations to share our commitment to respecting, protecting and promoting human rights. This includes alignment to the UN Guiding Principles, the 10 Principles of the United Nations Global Compact (UNGC), the International Labour Organization (ILO) minimum standards, the Ethical Trading Initiative (ETI) Base Code, the UK Modern Slavery Act 2015, the US Victims of Trafficking and Violence Protection Act 2000, the US Department of State Principles Combatting Human Trafficking and, for our UK suppliers, the requirements of the Living Wage Foundation.

Unresolved SEC staff comments

There are no unresolved SEC staff comments required to be reported.

Property, plant and equipment

This information can be found in Note 13 Property, plant and equipment on pages 180 – 182, Note 21 Borrowings on pages 192 – 194 and Where we operate on page 244.

Listing Rule 9.8.4 R cross-reference table

Information required to be disclosed by LR 9.8.4 R (starting on page indicated):

Interest capitalised	Page 167
Publication of unaudited financial information	Not applicable
Details of long-term incentive schemes	Pages 114, 128 and 130
Waiver of emoluments by a director	Not applicable
Waiver of future emoluments by a director	Not applicable
Non-pre-emptive issues of equity for cash	Not applicable
Item (7) in relation to major subsidiary undertakings	None
Parent participation in a placing by a listed subsidiary	Not applicable
Contracts of significance	Page 264
Provision of services by a controlling shareholder	Not applicable
Shareholder waivers of dividends	Page 259
Shareholder waivers of future dividends	Page 259
Agreements with controlling shareholders	Not applicable

Other disclosures continued

Political donations and expenditure

At this year's AGM, the Directors will again seek authority from shareholders, on a precautionary basis, for the Company and its subsidiaries to make donations to registered political parties and other political organisations and/or incur political expenditure as such terms are defined in the Companies Act 2006. In each case, donations will be in amounts not exceeding £125,000 in aggregate. The definitions of these terms in the Companies Act 2006 are very wide. As a result, this can cover bodies such as those concerned with policy review, law reform and the representation of the business community (for example trade organisations). It could include special interest groups, such as those involved with the environment, which the Company and its subsidiaries might wish to support, even though these activities are not designed to support or influence support for a particular party. The Companies Act 2006 states that all-party parliamentary groups are not political organisations for these purposes, meaning the authority to be sought from shareholders is not relevant to interactions with such groups. The Company has no intention of changing its current practice of not making political donations or incurring political expenditure within the ordinary meaning of those words. This authority is, therefore, being sought to ensure that none of the Company's activities inadvertently infringe these rules.

National Grid made no political donations and did not incur any political expenditure during the year, as such terms are defined for the purposes of the Companies Act 2006 and the Political Parties, Elections and Referendums Act 2000. National Grid USA's affiliated New York and federal political action committees (PAC) made political donations in the US totalling \$79,375 (£58,796) during the year. National Grid USA's affiliated New York PAC (NYPAC) was funded partly by contributions from National Grid USA and certain of its subsidiaries and partly by voluntary employee contributions. National Grid USA's affiliated federal PAC was funded wholly by voluntary employee contributions. The NYPAC did not receive any corporate contribution during the past fiscal year.

Material contracts

On 17 March 2021, we agreed to buy WPD from PPL, and, conditional upon the completion of the WPD Acquisition and certain regulatory approvals, agreed to sell NECO to PPL. The share purchase agreements for the WPD Acquisition and the NECO sale, together with the sponsor agreement between the Company and Barclays Bank plc (Barclays) dated 31 March 2021 (pursuant to which the Company appointed Barclays as sponsor in connection with the WPD Acquisition and the publication of its shareholder circular for approval of the WPD Acquisition), as well as the acquisition facility dated 17 March 2021 required for the WPD Acquisition, comprising a £8.25 billion term loan facility and a £1.105 billion revolving loan facility term between the Company, Barclays and Goldman Sachs as lenders and lead arrangers, constitute material contracts for the Company.

On 27 March 2022, we also announced the sale of a 60% stake in our UK Gas Transmission (which owns and operates the gas transmission network across Great Britain) and UK metering business. We also entered into an option for the potential sale of the remaining 40% stake with the purchasing consortium. The acquisition agreement and the option agreement in connection with this transaction constitute material contracts for the Company.

In addition, each of our Executive Directors has a Service Agreement and each Non-executive Director has a Letter of Appointment. Apart from these, no contract (other than contracts entered into in the ordinary course of business) has been entered into by the Group within the two years immediately preceding the date of this report that is, or may be, material; or which contains any provision under which any member of the Group has any obligation or entitlement which is material to the Group at the date of this report.

Research, development and innovation activity

Investment in research and development during the year for the Group is outlined in Note 4 on page 162. We only disclose directly incurred expenditure, and not those amounts our partners contribute to joint or collaborative projects. Collaborating across the industry has played a crucial role in our ability to develop new programmes and deliver value to our stakeholders throughout 2021/22.

UK Electricity

Electricity Transmission innovation has increased focus on meeting the UK's net zero 2050 targets. As a result, our project portfolio has been developed around the themes of delivering cleaner and cheaper energy. As the pace of climate change and its effects increase, we can expect the technology evolution and delivery of the energy transition to accelerate. Responding to this challenge will mean having to think very broadly about the art of the possible and engaging with other sectors; during 2021/22 we have identified five whole-system approach projects.

Collaboration is a crucial part of the way we innovate in Electricity Transmission. Sharing and being open to new ideas from across industries and academia allows us to develop projects to transform energy systems and bring the greatest possible benefits to our customers, stakeholders and end consumers. For us, that involves finding the right specialist partners to work with us on the right challenges, while giving stakeholders plenty of time and opportunity to contribute and influence our decision making. We have therefore set up a new framework for a wider range of UK universities to work with us on delivering the energy transition and addressing consumer vulnerabilities.

We are partnered with the Energy Innovation Centre (EIC), which provides us with a forum to work together with other networks on common challenges that centre on SF₆, vulnerable customers and net zero substations. Together with EIC, SPEN and SEE, we launched Call for Innovation 2021 for suppliers to showcase their

ideas for managing the existing SF₆ inventory. Responses were received from several suppliers addressing improved leak detection, leak sealing and SF₆ capture.

Additionally, we have continued engaging with innovative organisations through our membership of the Infrastructure Industry Innovation Partnership (i3P). Its large network of experts and innovators is helping drive transformation within the infrastructure and construction industry to deliver infrastructure for the future.

We have been granted the Strategic Innovation Funding for a total of £400,000, to deliver the discovery phase of three projects to support network innovation that contributes to the achievement of net zero, while delivering real net benefits to network consumers.

Ofgem approved our business model for our Deeside Centre for Innovation in October 2021 and progress has been made with the construction of the OHL and substation area. Over the past 12 months, our innovation programme at the centre has included trialling three new innovative projects to cut harmful environmental emissions. From reducing SF₆ from its pipework, to trialling a cement-free concrete, to capturing waste heat from electricity transformers to generate hot water and space heating for homes and businesses, these projects are another step forward on the journey to meet net zero targets by 2050. We are aiming to open the facility for wider industry use in October 2022.

We continue to progress innovative ideas into our business as usual practices particularly as the resilience requirements of electricity networks will need to evolve with a changing energy landscape as society adapts how it uses energy to meet the 2050 net zero decarbonisation target and national infrastructure sectors become increasingly interdependent. The outputs of our projects help to plan for future resilience requirements and effectively ensure the UK has a prepared robust transmission network.

WPD

WPD's innovation project portfolio has been expanded to new areas, enabling it to work with industries it has never worked with before. Driven by the Group ambition to meet net zero and recognising that this cannot be delivered if there is no collaboration with other key industries, WPD has focused on increasing collaboration with crucial sectors that need to decarbonise to enable the UK meet its net zero targets. WPD has created and is delivering Network Innovation Allowance (NIA) projects in collaboration with water utilities, environmental management experts and leaders in climate change adaptation. WPD is proud to have started its largest NIA project focusing on consumer vulnerability, called Vulnerability and Energy Networks, Identification and Consumption Evaluation (VENICE). VENICE is developing ways to predict consumer vulnerability, measuring the impact the pandemic had on the networks and using a community

energy scheme to find the right approaches needed to engage with the fuel poor in the energy transition.

WPD continued leading our work on EVs and Vehicle to Grid (V2G) by delivering the Electric Nation Powered Up project, which is trialling V2G and strengthening our relationship with the transport industry.

The work on the electrification of heat is now increasing significantly in scale through our Network Innovation Competition (NIC) project, Equinox. Equinox's focus is to make heat flexibility accessible to DNOs and beneficial to customers by running the UK's largest heat flexibility trial.

Values of decarbonisation, excellence and value for money continue to shape WPD's innovation strategy which sets priority areas and commitments. WPD's projects focus on decarbonisation and net zero, heat, transport, data and communities/consumer vulnerability. Stakeholder engagement through webinars, innovation events and innovation themed weeks has enabled us to ensure WPD's innovation strategy reflects stakeholders' needs and priorities. WPD's strategy has also been developed further to include our RIIO-ED2 strategic aims and plans which were created through extensive engagement with customers and stakeholders as part of the RIIO-ED2 Business Plan consultation process.

Electricity System Operator

The ESO has used the first year of RIIO-2 to ramp up its innovation activities. The ESO was awarded an initial £23 million NIA funding from Ofgem, now accessible as a flexible amount across the five-year regulatory period (previously an annual allowance in RIIO-1). This has allowed the ESO to increase the size and number of innovation projects in our pipeline, helping to address priority challenges or opportunities across all the ESO roles. For 2021/22, the ESO has spent £4.43 million on innovation projects; the pipeline of approved projects continues to increase significantly as we continue into 2022/23. The Virtual Energy System (VirtualES) will be a cornerstone of ESO innovation going forward; this programme aims to establish an interconnected network of digital twins for individual components of the energy system, eventually creating a digital replica of the whole energy system. This would unlock greater insights and drive better decisions required for GB to achieve net zero targets, more quickly and efficiently. We have started initial projects to develop a common framework for the VirtualES. In parallel, new innovation projects are currently developing the specific tools and use-cases of the VirtualES to highlight the potential and shared benefits from this future industry-led resource.

UK Gas

In our first year of RIIO-T2, Gas Transmission innovation has developed its portfolio of energy transition projects to meet the UK's net zero 2050 targets. Alongside this energy transitional innovation, asset innovation has developed a focused team to deploy innovations from

RIIO-T1 and drive 'business as usual' innovation. The key highlights of 2021/22 include the following:

- The portfolio of NIA projects has sanctioned 25 projects with several further projects under development for 2022/23.
- Development of 11 collaborative SIF Discovery project applications, with 10 being successfully funded for March – April 2022.
- Further development of the Hydrogen in the National Transmission System (HyNTS) programme aligned to future hydrogen investments: HyNTS debonding continued for demonstration later in RIIO-T2 allowing for the separation of hydrogen in a natural gas mix and HyNTS compression exploring the capability of NTS compression systems to both be fuelled and compressed hydrogen methane blends.
- Successful kick-off of the £12.7 million HyNTS FutureGrid NIC project at DNV's Spadeadam Test and Research Centre. Progress includes decommissioned assets delivered to site and remedial works undertaken, groundworks completed ready for construction and standalone hydrogen testing commencing. The project will demonstrate that the National Transmission System (NTS) can transport hydrogen ready for Project Union (the UK hydrogen backbone).
- Reduction of methane emissions through the CH4RGE project that looks at reducing methane emissions from rotating gas equipment and has successfully attained first stage funding for demonstration of the systems and capabilities.
- Deployment of the valve remediation techniques under the Valve Care Toolbox project to provide a suite of solutions that allow for repair rather than replacement of valves.

US research and development

Research and development (R&D) work in the US focused on the advancement of products, processes, systems technologies and work methods that may be new to National Grid. This is accomplished by working with internal departments to identify where strategic R&D investment is needed and is likely to prove beneficial. To achieve these goals, we work in collaboration with technical organisations, academia and vendors in the energy sector that align with our goals and objectives to provide a safe, reliable, efficient and clean service. We continue to focus our R&D on increasing public safety, supporting the integration of renewable resource, protecting our workforce and reducing the cost of the work we perform.

Research efforts are designed with the focus on shared learnings across jurisdictions to help reduce cost and allow for a faster pace of technology adoption.

In 2021/22, we continued to invest and participate in several significant pilot projects with the intention of obtaining operational knowledge and experience of technology-driven system impacts.

US Electricity

New England – Distribution

- In January 2022, we reached a milestone of connecting more than 3 GW of renewable distributed generation across our network – enough to power approximately 600,000 homes. National Grid is ranked as the second utility in the nation for non-residential solar installations and seventh for residential solar installations.
- We are implementing grid modernisation technologies such as Fault Location, Isolation and Service Restoration (FLISR) to improve resilience. FLISR helps optimise system performance by reducing customer outage duration. The programme reduces the minutes of interruption experienced by customers by automatically rerouting power in a way that the electric system previously was not capable of. As an example, in the midst of the 2021 nor'easter, the FLISR scheme was active on feeders from West Salem and Saugus in the North Shore District in New England. A tree limb created a mainline fault condition between the West Salem substation circuit breaker and the first downstream pole-top recloser on the line. FLISR logic was activated and quickly restored service to 1,531 customers in 16 seconds. The remaining 2,356 customers experiencing the outage had their service restored in 141 minutes after the repairs to the feeder were completed. Had this FLISR scheme not been implemented, all 3,887 customers would have experienced the full outage. Another example occurred in February 2021, when a storm in East Boxford, Massachusetts knocked out power to approximately 1,000 customers. FLISR enabled the restoration of power to 400 of the customers almost immediately and minimised restoration time for the remaining 600. These events demonstrated the self-healing capabilities provided by the Advanced Data Analytics/FLISR investments.

New England – Transmission

- National Grid successfully deployed the dynamic line ratings technologies on two transmission lines in New England. This technology allows maximum utilisation of the existing transmission line capacity and supports the Company's net zero emissions goal.
- National Grid successfully deployed the dynamic transformer ratings technologies on two substation transformers. This technology allows maximum utilisation of the existing transformer capacity and supports the Company's net zero emissions goal.

New York – Transmission

- In New York, we have a joint development agreement with the New York Power Authority (NYPA) for co-investment in the Smart Path Connect transmission project to enable the delivery of approximately 1 GW of large-scale renewable generation. Expected to be in service by the end of 2025, this project will deliver 1,000 MWs of renewable energy across New York.

Other disclosures continued

New York – Distribution

- We are working to procure a battery storage non-wire alternative project known as Old Forge, which is a 20 MW and 40 MWh battery designed to operate as a Microgrid, increasing reliability and resiliency of the local grid for 7,565 customers for two hours during peak load periods. In addition, this battery will be providing wholesale market value during Blue-sky days by bidding into the NYISO wholesale electric market, returning any money earned to customers.
- In New York, we are helping grow participation in community distributed generation through a novel customer billing solution we developed and proposed to our regulators. We also recently received approval for Solar for All, a programme to increase solar access for 175,000 of our income-eligible customers. We have proposed a similar programme called MA Community Shared Solar.
- In downstate New York, we launched a portfolio of Weatherisation Programmes aimed to reduce natural gas peak demand, save our customers energy and provide them with a more comfortable and resilient home. Every home weatherised is equivalent to carbon sequestered by an entire acre of US forests a year.

Calibration across multiple jurisdictions

- We are moving from interconnecting to integrating of DERs so we can better utilise them for the system needs. We are implementing Advanced Distribution Management Systems (ADMS) that will support distribution control room operations by providing greater visibility, situation awareness, and optimisation of the distribution system and have created digital products for implementing our DERMS solution so we can streamline DER interconnections and reduce costs for customers.
- One of the big initiatives we're looking to do is implement an AMI installation programme, which is foundational to a lot of other initiatives that rely on that near-real-time customer data.
- AMI will provide more granular energy usage data to enable customers to better understand and choose between DER offerings (i.e. distributed generation, storage, EV, demand response and energy-efficiency solutions) to better manage their energy usage and costs.

Hydrogen pilots

- We are researching how hydrogen will perform in our existing gas infrastructure through our membership with a US Department of Energy funded consortium called Hyblend and through work with the New York State Energy Research Development Authority (NYSERDA) and Stony Brook University.
- We are also partnering with Standard Hydrogen Corporation to develop the nation's first multi-use, renewable hydrogen-based energy storage and delivery system in New York, which is pending regulatory approval. The system will have the ability to power fuel

cell vehicles, shift energy peaking, provide backup power and blend hydrogen into the gas network – all from one system and site.

- We have partnered with the town of Hempstead on Long Island, NY to use hydrogen to heat 800 homes and fuel a fleet of municipal vehicles, which will be active by 2024.

Electric vehicles

- National Grid has helped our customers to deploy almost 4,411 EV chargers, with 46% located in environmental or disadvantaged communities.
- We partnered with the city of Beverly on an electric school bus project where the bus delivers stored energy back to the grid to help meet peak energy demand. Not only does this approach reduce local emissions and strengthen the grid, but participants receive a financial incentive. This past summer the Beverly bus discharged nearly 3 MWh of electricity stored in its battery system to the regional electric grid over the course of 30 events.
- Internally, we have light-duty EVs in our fleet. We also are one of the first utilities to introduce an electric backhoe into our fleet and we are testing Ford's first E-Transit vans in downstate New York and Massachusetts.

Digital strategy

We are adopting an agile product methodology and digital approach to implement our business strategy for fast delivery of customer outcomes. We are moving ahead with the following projects:

- **Active Resource Integration:** An integrated platform that will dynamically manage distributed generation power export for short duration constraints to avoid costly electric system upgrades. It will help optimise DER network utilisation through curtailment management, offering flexible interconnection service at an economic cost and timeframe to developers/customers.
- **Vegetation Management Optimisation (VMO):** A risk-based vegetation management planning tool using satellite imagery and artificial intelligence to optimise when we prune vegetation and manage hazardous trees on our system. Efficiencies identified are being reinvested to improve reliability and storms costs. We worked with AiDash, a National Grid Partner, and were the first in our industry to implement at a system level.
- **Digital product for totex optimisation of Electric workplans.** At its core, FutureNow leverages data-driven value models and an optimisation engine to drive equal or better distribution and transmission workplan outcomes at significantly reduced cost. Every project is evaluated along common value drivers (i.e. reliability, capacity, safety and risk) and the overall workplan is resource-balanced in a semi-automated fashion that will save the business hundreds of hours of manual labor annually. FutureNow also drives organisational efficiencies by integrating workplan information from multiple systems into one

unified platform, and is envisioned to unlock additional value by applying predictive analytics to improve electric workplan adherence and on-time/on-budget execution.

- **On My Way:** a digital work dispatch and completion tool. An integrated digital solution focused on better supporting field operations, particularly line crews and trouble workers, by putting in place digital work packages and allowing for more efficient job coordination, assignment and execution. The goal is to move from paper-based work dispatch to digitalised work packages and real-time job dispatch/update/close from any location, thereby generating full time equivalent capacity for reallocation and reductions in fuel and paper costs.

US Gas

New York

- While partnering with a robotics company and another utility, we have been developing and testing new technology to locate inadvertent sewer cross-bores created when using some trenchless technology. This technology is deployed in our gas main immediately after installation, prior to the introduction of natural gas. It differs from the current process, which requires us to gain access to the municipal sewer system. Deployment will reduce the risk and cost associated with sewer cross-bores. We constructed a functional sewer system covering five hectares at one of our facilities to test the accuracy of the technology. We purposefully created cross-bores in the system at several points to determine if the technology could locate them. The technology found all the cross-bores with no false negatives. After achieving positive results deploying this technology in a controlled test bed at one of our NY facilities, the next step was to test this process in the field. This technology was tested after new pipe installation via trenchless methods as well as in validation runs where sewer cross-bores were identified in the field through the existing process. In all cases, the technology was able to verify the locations of the cross-bores accurately. In 2021, we performed 13 inspections with the acoustic cross-bore detector and covered over 18,000 feet of main, 10,000 feet of which was newly installed main, via horizontal directional drilling. We also started knowledge sharing sessions with a California utility which is using the same technology on services to identify any potential cross-bores. The goal is to further validate the technology statistically in 2022.
- National Grid is working on the development of an integrated safety solution, known as 'Grid of Things', comprising various Internet of Things (IoT) connected devices aimed at preventing gas-related incidents at customer locations. The concept of the integrated safety solution comprises a smart metering device, smart methane detector and devices with the ability to cut off gas flow to the customer. The solution will monitor various hazardous

scenarios such as flooding, fire, gas leaks and abnormal pressure conditions (over-pressure/under-pressure), among others, and can communicate alarm conditions to the utility, customers or both over wireless protocols. The primary goal of this safety solution is to mitigate hazards that can lead to gas-related safety incidents within a customer location, as well as notify the customers and respond to such events in a quicker manner if they were to occur. Another key focus of this initiative is to determine a solution that will work in gas only territories where AMI solutions are not currently available. We've worked with various end device manufacturers to develop prototype solutions that communicate on long-range wide area network (LoRaWAN) communications and have performed a successful pilot demonstration in 2021. Through this pilot, we confirmed that these devices can achieve carrier grade communications while achieving greater than 20-year expected battery lifetimes. The next step is to integrate AMI or cellular communications into these devices and test their performance over different communication networks.

- We have partnered with another NY utility and a company in California on the development of an advanced residential methane detector (RMD) which is focused on early detection of gas leaks. This technology is focused on improving the detection of leaks to maximise response time to real hazards. The RMD is in its third prototype phase of development and has shown to be capable of precise and accurate detection of methane at the parts per million level. Several of these prototypes have been deployed at a test facility that is undergoing various methane dispersion tests to mimic typical household leak scenarios. Dispersion testing results showed that the advanced RMD was able to detect gas faster than traditional sensors across a broader range of leak scenarios.
- National Grid is actively supporting research into the ability to provide green hydrogen in its gas distribution systems with the intention of decarbonising gas service in order to provide our customers an effective option to meet the goals of NY's Climate Leadership and Community Protection Act (CLCPA). We are investing in and/or formally collaborating in several targeted R&D projects with various other organisations. The development of hydrogen energy systems is one of the key components of the Low Carbon Resources Initiative (LCRI), which has Technical Support Committees to guide R&D relevant to hydrogen, including renewable fuels, electrolysis and end use. The Company also supports the development of R&D projects in the Operations Technology Development (OTD), Utilization Technology Development and NYSEARCH programmes that primarily support investigations of pipeline integrity with

increasing use of hydrogen blending as well as understanding and minimising the impact on end-use equipment. The Company is also a founding member of the Institute for Gas Innovation and Technology (I-GIT) at Stony Brook University that is funded separately and includes R&D into power-to-gas concepts. I-GIT is also leading a two-year NYSERDA project into the impacts of hydrogen blending in NY's gas distribution systems including non-destructive examination of used piping exposed to hydrogen, for which the Company's cost-share was approved in Cases 19-G-0309 and 19-G-0310. I-GIT is also the academic lead for the national \$14 million HyBlend Collaborative Research and Development Agreement (CRADA). This HyBlend programme is sponsored by the US Department of Energy's Hydrogen and Fuel Cell Technologies Office in the Office of Energy Efficiency and Renewable Energy and 22 industry and academic participants, which will identify and evaluate the technical and safety requirements for introducing hydrogen blending into US gas distribution systems. The HyBlend CRADA is being led by the National Renewable Energy Laboratory (NREL) and implemented by six other national laboratories. The project kicked off in August 2021 and will take about two years.

The Company is pursuing the above R&D efforts to drive innovations that will improve safety, reliability and operational efficiency of our gas business operations.

Other unaudited financial information

Alternative performance measures/non-IFRS reconciliations

Within the Annual Report, a number of financial measures are presented. These measures have been categorised as alternative performance measures (APMs), as per the European Securities and Markets Authority (ESMA) guidelines and the Securities and Exchange Commission (SEC) conditions for use of non-GAAP financial measures.

An APM is a financial measure of historical or future financial performance, financial position, or cash flows, other than a financial measure defined under IFRS. The Group uses a range of these measures to provide a better understanding of its underlying performance. APMs are reconciled to the most directly comparable IFRS financial measure where practicable.

The Group has defined the following financial measures as APMs derived from IFRS: net revenue, the various adjusted operating profit, earnings and earnings per share metrics detailed in the 'adjusted profit measures' section below, net debt, capital investment, funds from operations (FFO), FFO interest cover and retained cash flow (RCF)/adjusted net debt. For each of these we present a reconciliation to the most directly comparable IFRS measure. We present 'constant currency' comparative period performance and capital investment by applying the current year average exchange rate to the relevant US dollar amounts in the comparative periods presented, to remove the year-on-year impact of foreign exchange translation.

We also have a number of APMs derived from regulatory measures which have no basis under IFRS; we call these Regulatory Performance Measures (RPMs). They comprise: Group RoE, operating company RoE, regulated asset base, regulated financial performance, regulatory gearing, Asset Growth, Value Added, including Value Added per share and Value Growth. These measures include the inputs used by utility regulators to set the allowed revenues for many of our businesses.

We use RPMs to monitor progress against our regulatory agreements and certain aspects of our strategic objectives. Further, targets for certain of these performance measures are included in the Company's Annual Performance Plan (APP) and Long-Term Performance Plan (LTPP) and contribute to how we reward our employees. As such, we believe that they provide close correlation to the economic value we generate for our shareholders and are therefore important supplemental measures for our shareholders to understand the performance of the business and to ensure a complete understanding of Group performance.

As the starting point for our RPMs is not IFRS, and these measures are not governed by IFRS, we are unable to provide meaningful reconciliations to any directly comparable IFRS measures, as differences between IFRS and the regulatory recognition rules applied have built up over many years. Instead, for each of these we present an explanation of how the measure has been determined and why it is important, and an overview as to why it would not be meaningful to provide a reconciliation to IFRS.

Alternative performance measures

Net revenue

Net revenue is revenue less pass-through costs, such as UK system balancing costs, gas and electricity commodity costs in the US. Pass-through costs are fully recoverable from our customers and are recovered through separate charges that are designed to recover those costs with no profit. Where revenue received or receivable exceeds the maximum amount permitted by our regulatory agreement, adjustments will be made to future prices to reflect this over-recovery. No liability is recognised, as such an adjustment to future prices relates to the provision of future services. Similarly, no asset is recognised where a regulatory agreement permits adjustments to be made to future prices in respect of an under-recovery.

	2022			2021			2020		
	Gross revenue ¹ £m	Pass-through costs £m	Net revenue £m	Gross revenue £m	Pass-through costs £m	Net revenue £m	Gross revenue £m	Pass-through costs £m	Net revenue £m
UK Electricity Transmission	2,035	(152)	1,883	1,974	(151)	1,823	1,986	(177)	1,809
UK Electricity Distribution	1,482	(125)	1,357	—	—	—	—	—	—
UK Electricity System Operator	3,455	(3,215)	240	2,018	(1,911)	107	1,716	(1,351)	365
New England	4,550	(2,050)	2,500	4,214	(1,784)	2,430	4,235	(1,997)	2,238
New York	5,561	(2,161)	3,400	4,605	(1,469)	3,136	4,601	(1,463)	3,138
NGV and Other	1,216	—	1,216	864	—	864	834	—	834
Sales between segments	(39)	—	(39)	(10)	—	(10)	(12)	—	(12)
Total – continuing operations	18,260	(7,703)	10,557	13,665	(5,315)	8,350	13,360	(4,988)	8,372
Discontinued operations	1,362	(397)	965	1,114	(233)	881	1,180	(242)	938
Total	19,622	(8,100)	11,522	14,779	(5,548)	9,231	14,540	(5,230)	9,310

1. Excluding exceptional income.

Adjusted profit measures

In considering the financial performance of our business and segments, we use various adjusted profit measures in order to aid comparability of results year-on-year. The various measures are presented on pages 37 – 49 and reconciled below.

Adjusted results – these exclude the impact of exceptional items and remeasurements that are treated as discrete transactions under IFRS and can accordingly be classified as such. This is a measure used by management that is used to derive part of the incentive target set annually for remunerating certain Executive Directors, and further details of these items are included in note 5 to the financial statements.

Underlying results – further adapts our adjusted results for continuing operations to take account of volumetric and other revenue timing differences arising due to the in-year difference between allowed and collected revenues, including revenue incentives, as governed by our rate plans in the US or regulatory price controls in the UK (but excluding totem-related allowances and adjustments or allowances for pension deficit contributions). For 2021/22, as highlighted on page 269, our underlying results exclude £16 million (2020/21: £111 million) of timing differences as well as £163 million (2020/21: £150 million) of major storm costs (as costs exceeded our \$100 million threshold in both 2021/22 and 2020/21). We expect to recover major storm costs incurred through regulatory mechanisms in the US.

Constant currency – the adjusted profit measures are also shown on a constant currency basis to show the year-on-year comparisons excluding any impact of foreign currency translation movements.

Reconciliation of statutory, adjusted and underlying profits and earnings – at actual exchange rates – continuing operations

	Statutory £m	Exceptionals and remeasurements £m	Adjusted £m	Timing £m	Major storm costs £m	Underlying £m
Year ended 31 March 2022						
UK Electricity Transmission	1,055	12	1,067	85	—	1,152
UK Electricity Distribution	909	—	909	(22)	—	887
UK Electricity System Operator	5	2	7	47	—	54
New England	764	(21)	743	32	111	886
New York	1,095	(315)	780	(126)	52	706
NGV and Other	543	(236)	307	—	—	307
Total operating profit	4,371	(558)	3,813	16	163	3,992
Net finance costs	(1,022)	(59)	(1,081)	—	—	(1,081)
Share of post-tax results of joint ventures and associates	92	56	148	—	—	148
Profit before tax	3,441	(561)	2,880	16	163	3,059
Tax	(1,258)	589	(669)	3	(42)	(708)
Profit after tax	2,183	28	2,211	19	121	2,351

	Statutory £m	Exceptionals and remeasurements £m	Adjusted £m	Timing £m	Major storm costs £m	Underlying £m
Year ended 31 March 2021						
UK Electricity Transmission	1,080	14	1,094	(42)	—	1,052
UK Electricity Distribution	—	—	—	—	—	—
UK Electricity System Operator	(53)	(7)	(60)	130	—	70
New England	614	(3)	611	11	105	727
New York	695	(30)	665	12	45	722
NGV and Other	65	52	117	—	—	117
Total operating profit	2,401	26	2,427	111	150	2,688
Net finance costs	(795)	(70)	(865)	—	—	(865)
Share of post-tax results of joint ventures and associates	58	8	66	—	—	66
Profit before tax	1,664	(36)	1,628	111	150	1,889
Tax	(360)	26	(334)	(23)	(39)	(396)
Profit after tax	1,304	(10)	1,294	88	111	1,493

	Statutory £m	Exceptionals and remeasurements £m	Adjusted £m	Timing £m	Major storm costs £m	Underlying £m
Year ended 31 March 2020						
UK Electricity Transmission	1,104	5	1,109	(85)	—	1,024
UK Electricity Distribution	—	—	—	—	—	—
UK Electricity System Operator	212	(1)	211	(61)	—	150
New England	470	53	523	157	—	680
New York	370	465	835	82	—	917
NGV and Other	123	3	126	—	—	126
Total operating profit	2,279	525	2,804	93	—	2,897
Net finance costs	(966)	37	(929)	—	—	(929)
Share of post-tax results of joint ventures and associates	87	1	88	—	—	88
Profit before tax	1,400	563	1,963	93	—	2,056
Tax	(370)	8	(362)	(35)	—	(397)
Profit after tax	1,030	571	1,601	58	—	1,659

Other unaudited financial information continued

Reconciliation of adjusted and underlying profits from continuing operations – at constant currency

	At constant currency					
	Adjusted at actual exchange rate £m	Constant currency adjustment £m	Adjusted £m	Timing £m	Major storm costs £m	Underlying £m
Year ended 31 March 2021						
UK Electricity Transmission	1,094	—	1,094	(42)	—	1,052
UK Electricity Distribution	—	—	—	—	—	—
UK Electricity System Operator	(60)	—	(60)	130	—	70
New England	611	(3)	608	11	104	723
New York	665	(4)	661	12	45	718
NGV and Other	117	—	117	—	—	117
Total operating profit	2,427	(7)	2,420	111	149	2,680
Net finance costs	(865)	4	(861)	—	—	(861)
Share of post-tax results of joint ventures and associates	66	—	66	—	—	66
Profit before tax	1,628	(3)	1,625	111	149	1,885

	At constant currency					
	Adjusted at actual exchange rate £m	Constant currency adjustment £m	Adjusted £m	Timing £m	Major storm costs £m	Underlying £m
Year ended 31 March 2020						
UK Electricity Transmission	1,109	—	1,109	(85)	—	1,024
UK Electricity Distribution	—	—	—	—	—	—
UK Electricity System Operator	211	—	211	(61)	—	150
New England	523	(24)	499	149	—	648
New York	835	(38)	797	79	—	876
NGV and Other	126	—	126	—	—	126
Total operating profit	2,804	(62)	2,742	82	—	2,824
Net finance costs	(929)	27	(902)	—	—	(902)
Share of post-tax results of joint ventures and associates	88	(1)	87	—	—	87
Profit before tax	1,963	(36)	1,927	82	—	2,009

Earnings per share calculations from continuing operations – at actual exchange rates

The table below reconciles the profit after tax from continuing operations as per the previous tables back to the earnings per share from continuing operations for each of the adjusted profit measures. Earnings per share is only presented for those adjusted profit measures that are at actual exchange rates, and not for those at constant currency.

	Profit after tax £m	Non-controlling interest £m	Profit after tax attributable to shareholders £m	Weighted average number of shares millions	Earnings per share pence
Year ended 31 March 2022					
Statutory	2,183	(1)	2,182	3,599	60.6
Adjusted	2,211	(1)	2,210	3,599	61.4
Underlying	2,351	(1)	2,350	3,599	65.3

	Profit after tax £m	Non-controlling interest £m	Profit after tax attributable to shareholders £m	Weighted average number of shares millions	Earnings per share pence
Year ended 31 March 2021					
Statutory	1,304	(1)	1,303	3,523	37.0
Adjusted	1,294	(1)	1,293	3,523	36.7
Underlying	1,493	(1)	1,492	3,523	42.4

	Profit after tax £m	Non-controlling interest £m	Profit after tax attributable to shareholders £m	Weighted average number of shares millions	Earnings per share pence
Year ended 31 March 2020					
Statutory	1,030	(1)	1,029	3,461	29.7
Adjusted	1,601	(1)	1,600	3,461	46.2
Underlying	1,659	(1)	1,658	3,461	47.9

Reconciliation of total Group statutory operating profit to 'adjusted earnings excluding timing and major storm costs'

Year ended 31 March	Including timing and major storm costs			Excluding timing and major storm costs		
	2022 £m	2021 £m	2020 £m	2022 £m	2021 £m	2020 £m
Continuing operations						
Adjusted operating profit	3,813	2,427	2,804	3,992	2,688	2,897
Adjusted net finance costs	(1,081)	(865)	(929)	(1,081)	(865)	(929)
Share of post-tax results of joint ventures and associates	148	66	88	148	66	88
Adjusted profit before tax	2,880	1,628	1,963	3,059	1,889	2,056
Adjusted tax	(669)	(334)	(362)	(708)	(396)	(397)
Adjusted profit after tax	2,211	1,294	1,601	2,351	1,493	1,659
Attributable to non-controlling interests	(1)	(1)	(1)	(1)	(1)	(1)
Adjusted earnings from continuing operations	2,210	1,293	1,600	2,350	1,492	1,658
Exceptional items after tax	(320)	(52)	(445)	(320)	(52)	(445)
Remeasurements after tax	292	62	(126)	292	62	(126)
Earnings from continuing operations	2,182	1,303	1,029	2,322	1,502	1,087
Discontinued operations						
Adjusted operating profit	654	499	503	734	595	557
Adjusted net finance costs	(218)	(77)	(114)	(218)	(77)	(114)
Share of post-tax results of joint ventures and associates	—	—	—	—	—	—
Adjusted profit before tax	436	422	389	516	518	443
Adjusted tax	(92)	(82)	(72)	(107)	(100)	(82)
Adjusted profit after tax	344	340	317	409	418	361
Attributable to non-controlling interests	—	—	—	—	—	—
Adjusted earnings from discontinued operations	344	340	317	409	418	361
Exceptional items after tax	(163)	(5)	(60)	(163)	(5)	(60)
Remeasurements after tax	(10)	2	(22)	(10)	2	(22)
Earnings from discontinued operations	171	337	235	236	415	279
Total Group (continuing and discontinued operations)						
Adjusted operating profit	4,467	2,926	3,307	4,726	3,283	3,454
Adjusted net finance costs	(1,299)	(942)	(1,043)	(1,299)	(942)	(1,043)
Share of post-tax results of joint ventures and associates	148	66	88	148	66	88
Adjusted profit before tax	3,316	2,050	2,352	3,575	2,407	2,499
Adjusted tax	(761)	(416)	(434)	(815)	(496)	(479)
Adjusted profit after tax	2,555	1,634	1,918	2,760	1,911	2,020
Attributable to non-controlling interests	(1)	(1)	(1)	(1)	(1)	(1)
Adjusted earnings from continuing and discontinued operations	2,554	1,633	1,917	2,759	1,910	2,019
Exceptional items after tax	(483)	(57)	(505)	(483)	(57)	(505)
Remeasurements after tax	282	64	(148)	282	64	(148)
Total Group earnings from continuing and discontinued operations	2,353	1,640	1,264	2,558	1,917	1,366

Reconciliation of adjusted EPS to statutory earnings (including and excluding the impact of timing and major storm costs)

Year ended 31 March	Including timing and major storm costs			Excluding timing and major storm costs		
	2022 pence	2021 pence	2020 pence	2022 pence	2021 pence	2020 pence
Adjusted EPS from continuing operations	61.4	36.7	46.2	65.3	42.4	47.9
Exceptional items and remeasurements after tax from continuing operations	(0.8)	0.3	(16.5)	(0.8)	0.3	(16.5)
EPS from continuing operations	60.6	37.0	29.7	64.5	42.7	31.4
Adjusted EPS from discontinued operations	9.6	9.7	9.2	11.4	11.8	10.4
Exceptional items and remeasurements after tax from discontinued operations	(4.8)	(0.1)	(2.4)	(4.8)	(0.1)	(2.4)
EPS from discontinued operations	4.8	9.6	6.8	6.6	11.7	8.0
Total adjusted EPS from continuing and discontinued operations	71.0	46.4	55.4	76.7	54.2	58.3
Total exceptional items and remeasurements after tax from continuing and discontinued operations	(5.6)	0.2	(18.9)	(5.6)	0.2	(18.9)
Total Group EPS from continuing and discontinued operations	65.4	46.6	36.5	71.1	54.4	39.4

Other unaudited financial information continued

Timing and regulated revenue adjustments

As described on pages 245 – 252, our allowed revenues are set in accordance with our regulatory price controls or rate plans. We calculate the tariffs we charge our customers based on the estimated volume of energy we expect will be delivered during the coming period. The actual volumes delivered will differ from the estimate. Therefore, our total actual revenue will be different from our total allowed revenue. These differences are commonly referred to as timing differences. If we collect more than the allowed revenue, adjustments will be made to future prices to reflect this over-recovery, and if we collect less than the allowed level of revenue, adjustments will be made to future prices to reflect the under-recovery. In the US, a substantial portion of our costs are pass-through costs (including commodity and energy-efficiency costs) and are fully recoverable from our customers. Timing differences between costs of this type being incurred and their recovery through revenue are also included in timing. The amounts calculated as timing differences are estimates and subject to change until the variables that determine allowed revenue are final.

Our continuing operating profit for the year includes a total estimated in-year under-collection of £16 million (2020/21: £111 million under-collection). For continuing operations, our closing balance at 31 March 2022 was £53 million over-recovered. Excluding discontinued operations, there was a cumulative under-recovery of £190 million at 31 March 2022 (2021: under-recovery of £70 million) in the UK. In the US, cumulative timing over-recoveries at 31 March 2022 were £293 million (2021: £198 million over-recovery). The total estimated in-year over- or under-collection excludes opening balance adjustments related to estimates or finalisation of balances as part of regulatory submissions.

In addition to the timing adjustments described above, as part of the RIIO price controls in the UK, outperformance against allowances as a result of the totex incentive mechanism, together with changes in output-related allowances included in the original price control, will almost always be adjusted in future revenue recoveries, typically starting in two years' time. We also receive revenues in relation to certain costs incurred or expected to be incurred (for example pension deficit contributions), with differences between revenues received and cost incurred adjusted in future revenue recoveries, e.g. after a triennial actuarial pension funding valuation has been concluded. Our current IFRS revenues and earnings include these amounts that relate to certain costs incurred in prior years or that will need to be repaid or recovered in future periods. Such adjustments will form an important part of the continuing difference between reported IFRS results and underlying economic performance based on our regulatory obligations.

For our UK regulated businesses as a whole (including discontinued operations), timing and regulated revenue adjustments totalled a return of £190 million in the year (2020/21: £184 million return). In the US, accumulated regulatory entitlements cover a range of different areas, with the most significant being environmental remediation and pension assets, as well as deferred storm costs. All regulatory entitlements are recoverable (or repayable) over different periods, which are agreed with the regulators to match the expected payment profile for the liabilities.

	UK Electricity Transmission £m	UK Electricity Distribution £m	UK Electricity System Operator £m	New England £m	New York £m	Continuing £m	Discontinued £m	Total £m
1 April 2021 opening balance ¹	—	—	(80)	(266)	465	119	(76)	43
Over/(under)-recovery	(85)	22	(47)	(32)	126	(16)	(80)	(96)
31 March 2022 closing balance to (recover)/return²	(85)	22	(127)	(298)	591	103	(156)	(53)

	UK Electricity Transmission £m	UK Electricity Distribution £m	UK Electricity System Operator £m	New England £m	New York £m	Continuing £m	Discontinued £m	Total £m
1 April 2020 opening balance ¹	(52)	—	70	(254)	479	243	16	259
Over/(under)-recovery	42	—	(130)	(11)	(12)	(111)	(96)	(207)
31 March 2021 closing balance to (recover)/return^{2,3}	(10)	—	(60)	(265)	467	132	(80)	52

	UK Electricity Transmission £m	UK Electricity Distribution £m	UK Electricity System Operator £m	New England £m	New York £m	Continuing £m	Discontinued £m	Total £m
1 April 2019 opening balance ¹	(141)	—	14	(108)	558	323	59	382
Over/(under)-recovery	85	—	61	(149)	(79)	(82)	(54)	(136)
31 March 2020 closing balance to (recover)/return^{2,3}	(56)	—	75	(257)	479	241	5	246

1. Opening balances have been restated to reflect the finalisation of calculated over/(under)-recoveries in the UK and the US.

2. The closing balance (including discontinued operations) at 31 March 2022 was £45 million under-recovered (translated at the closing rate of \$1.31:£1). 31 March 2021 was £48 million over-recovered (translated at the closing rate of \$1.38:£1). 31 March 2020 was £264 million over-recovered (translated at the closing rate of \$1.24:£1).

3. New England and New York in-year over/(under)-recovery and all New England and New York balances have been translated using the average exchange rate of \$1.35 for the year ended 31 March 2022.

Capital investment

'Capital investment' or 'investment' refer to additions to property, plant and equipment and intangible assets, and contributions to joint ventures and associates, other than the St William Homes LLP joint venture during the period. We also include the Group's investments by National Grid Partners during the period, which are classified for IFRS purposes as non-current financial assets in the Group's consolidated statement of financial position.

Investments made to our St William Homes LLP arrangement are excluded based on the nature of this joint venture arrangement. We typically contributed property assets to the joint venture in exchange for cash and accordingly did not consider these transactions to be in the nature of capital investment.

Year ended 31 March	At actual exchange rates			At constant currency		
	2022 £m	2021 £m	% change	2022 £m	2021 £m	% change
UK Electricity Transmission	1,195	984	21	1,195	984	21
UK Electricity Distribution	899	—	n/a	899	—	n/a
UK Electricity System Operator	108	88	23	108	88	23
New England	1,561	1,437	9	1,561	1,429	9
New York	1,960	1,738	13	1,960	1,729	13
NGV and Other	462	480	(4)	462	480	(4)
Group capital expenditure – continuing	6,185	4,727	31	6,185	4,710	31
Equity investment, funding contributions and loans to joint ventures and associates ¹	461	81	469	461	81	469
Investments in financial assets (National Grid Partners)	93	35	166	93	35	166
Group capital investment – continuing	6,739	4,843	39	6,739	4,826	40
Discontinued operations	261	204	28	261	204	28
Group capital expenditure – total	7,000	5,047	39	7,000	5,030	39

1. Excludes £25 million (2021: £nil) equity contribution to the St William Homes LLP joint venture.

Net debt

See note 29 on page 208 for the definition and reconciliation of net debt.

Funds from operations and interest cover

FFO is the cash flows generated by the operations of the Group. Credit rating metrics, including FFO, are used as indicators of balance sheet strength.

Year ended 31 March	2022 £m	2021 ¹ £m	2020 ¹ £m
Interest expense (income statement)	1,146	977	1,119
Hybrid interest reclassified as dividend	(38)	(38)	(39)
Capitalised interest	152	131	122
Pensions interest adjustment	11	(16)	16
Unwinding of discount on provisions	(73)	(78)	(77)
Interest charge (discontinued operations)	218	—	—
Adjusted interest expense	1,416	976	1,141
Net cash inflow from operating activities	5,490	4,461	4,715
Interest received on financial instruments	40	16	73
Interest paid on financial instruments	(1,053)	(835)	(957)
Dividends received	166	80	75
Working capital adjustment	(361)	(312)	(269)
Excess employer pension contributions	99	116	176
Hybrid interest reclassified as dividend	38	38	39
Add back accretions	241	—	—
Difference in net interest expense in income statement to cash flow	(177)	(138)	(187)
Difference in current tax in income statement to cash flow	72	(67)	67
Current tax related to prior periods	(35)	8	(45)
Cash flow from discontinued operations	668	—	(97)
Other fair value adjustments	—	22	—
Funds from operations (FFO)	5,188	3,389	3,590
FFO interest cover ((FFO + adjusted interest expense)/adjusted interest expense)	4.7x	4.5x	4.1x

1. Numbers for 2021 and 2020 reflect the calculations for the total Group as based on the published accounts for the respective years.

Other unaudited financial information continued

Retained cash flow/adjusted net debt

RCF/adjusted net debt is one of two credit metrics that we monitor in order to ensure the Group is generating sufficient cash to service its debts, consistent with maintaining a strong investment-grade credit rating. We calculated RCF/adjusted net debt applying the methodology used by Moody's, as this is one of the most constrained calculations of credit worthiness. The net debt denominator includes adjustments to take account of the equity component of hybrid debt.

	2022	2021 ¹	2020
Year ended 31 March	£m	£m	£m
Funds from operations (FFO)	5,188	3,389	3,590
Hybrid interest reclassified as dividend	(38)	(38)	(39)
Ordinary dividends paid to shareholders	(922)	(1,413)	(892)
RCF	4,228	1,938	2,659
Borrowings ²	45,465	32,339	30,794
Less:			
50% hybrid debt	(1,027)	(1,032)	(1,054)
Cash and cash equivalents	(190)	(157)	(73)
Financial and other investments	(2,292)	(1,768)	(1,278)
Underfunded pension obligations	326	467	1,442
Borrowings in held for sale	5,234	—	—
Derivative balances removed from debt ³	—	—	(116)
Currency swaps ³	—	—	203
Nuclear decommissioning liabilities reclassified as debt ³	—	—	6
Collateral – cash received under collateral agreements	—	(582)	(785)
Accrued interest removed from short-term debt ³	—	—	(246)
Adjusted net debt (includes pension deficit)	47,516	29,267	28,893
RCF/adjusted net debt	8.9%	6.6%	9.2%

1. Numbers for 2021 reflect the calculations for the total Group as based on the published accounts for that year.

2. Including borrowings in NECO and UK Gas Transmission classified as held for sale.

3. Below agency threshold, prior year not restated.

Regulatory Performance Measures

Regulated financial performance – UK

Regulatory financial performance is a pre-interest and tax measure, starting at segmental operating profit and making adjustments (such as the elimination of all pass-through items included in revenue allowances and timing) to approximate regulatory profit for the UK regulated activities. This measure provides a bridge for investors between a well-understood and comparable IFRS starting point and through the key adjustments required to approximate regulatory profit. This measure also provides the foundation to calculate Group RoE.

For the reasons noted above, the table below shows the principal differences between the IFRS operating profit and the regulated financial performance, but is not a formal reconciliation to an equivalent IFRS measure.

UK Electricity Transmission

	2022	2021	2020
Year ended 31 March	£m	£m	£m
Adjusted operating profit	1,067	1,094	1,109
Movement in regulatory 'IOUs'	82	59	21
Deferred taxation adjustment	26	53	60
RAV indexation – 2% CPIH (2020 & 2021: 3% RPI) long-run inflation	287	418	401
Regulatory vs IFRS depreciation difference	(433)	(434)	(448)
Fast money/other	(44)	57	70
Pensions	(42)	(41)	(40)
Performance RAV created	75	110	122
Regulated financial performance	1,018	1,316	1,295

UK Electricity Distribution

	2022	2021	2020
	£m	£m	£m
9.5 months ended 31 March			
Adjusted operating profit	909	n/a	n/a
Movement in regulatory 'IOUs'	(42)	n/a	n/a
Deferred taxation adjustment	28	n/a	n/a
RAV indexation – 3% RPI long-run inflation	198	n/a	n/a
Regulatory vs IFRS depreciation difference	(358)	n/a	n/a
Fast money/other	(34)	n/a	n/a
Pensions	(111)	n/a	n/a
Performance RAV created	9	n/a	n/a
Regulated financial performance	599	n/a	n/a

UK Electricity System Operator

	2022	2021	2020
	£m	£m	£m
Year ended 31 March			
Adjusted operating profit	7	(60)	211
Movement in regulatory 'IOUs'	31	129	(120)
Deferred taxation adjustment	(4)	7	3
RAV indexation – 2% CPIH (2020 & 2021: 3% RPI) long-run inflation	5	6	5
Regulatory vs IFRS depreciation difference	27	(5)	(11)
Fast money/other	(24)	(29)	(44)
Pensions	(10)	(13)	(12)
Performance RAV created	—	1	(3)
Regulated financial performance	32	36	29

UK Gas Transmission

	2022	2021	2020
	£m	£m	£m
Year ended 31 March			
Adjusted operating profit	654	499	503
Less non-regulated profits	(150)	(157)	(155)
Movement in regulatory 'IOUs'	72	34	67
Deferred taxation adjustment	13	12	25
RAV indexation – 2% CPIH (2020 & 2021: 3% RPI) long-run inflation	126	189	185
Regulatory vs IFRS depreciation difference	(281)	(88)	(77)
Fast money/other	(4)	25	(17)
Pensions	—	(34)	(34)
Performance RAV created	3	(23)	(24)
Regulated financial performance	433	457	473

Regulated financial performance – US

New England

	2022	2021	2020
	£m	£m	£m
Year ended 31 March			
Adjusted operating profit	743	611	523
Provision for bad and doubtful debts (COVID-19), net of recoveries ¹	—	(7)	63
Major storm costs	111	105	—
Timing	32	11	157
Depreciation adjustment ²	(67)	—	—
US GAAP pension adjustment	11	2	(2)
Regulated financial performance	830	722	741

1. New England financial performance includes an adjustment reflecting our expectation for future recovery of COVID-19-related provision for bad and doubtful debts.
2. The depreciation adjustment relates to the impact of the cessation of depreciation for NECCO under IFRS following reclassification as held for sale.

New York

	2022	2021	2020
	£m	£m	£m
Year ended 31 March			
Adjusted operating profit	780	665	835
Provision for bad and doubtful debts (COVID-19), net of recoveries ¹	—	127	54
Major storm costs	52	45	—
Timing	(126)	12	82
US GAAP pension adjustment	66	1	(2)
Regulated financial performance	772	850	969

1. New York financial performance includes an adjustment reflecting our expectation for future recovery of COVID-19-related provision for bad and doubtful debts.

Other unaudited financial information continued

Total regulated financial performance

	2022	2021	2020
Year ended 31 March	£m	£m	£m
UK Electricity Transmission	1,018	1,316	1,295
UK Electricity Distribution	599	n/a	n/a
UK Electricity System Operator	32	36	29
UK Gas Transmission	433	457	473
New England	830	722	741
New York	772	850	969
Total regulated financial performance	3,684	3,381	3,507

New England and New York timing, major storms costs and movement in UK regulatory 'IOUs' – Revenue related to performance in one year may be recovered in later years. Where revenue received or receivable exceeds the maximum amount permitted by our regulatory agreement, adjustments will be made to future prices to reflect this over-recovery. No liability is recognised under IFRS, as such an adjustment to future prices relates to the provision of future services. Similarly, no asset is recognised under IFRS where a regulatory agreement permits adjustments to be made to future prices in respect of an under-recovery. In the UK, this is calculated as the movement in other regulated assets and liabilities.

Performance RAV – UK performance efficiencies are in part remunerated by the creation of additional RAV which is expected to result in future earnings under regulatory arrangements. This is calculated as in-year totex outperformance multiplied by the appropriate regulatory capitalisation ratio and multiplied by the retained company incentive sharing ratio.

Pension adjustment – Cash payments against pension deficits in the UK are recoverable under regulatory contracts. In US Regulated operations, US GAAP pension charges are generally recoverable through rates. Revenue recoveries are recognised under IFRS but payments are not charged against IFRS operating profits in the year. In the UK, this is calculated as cash payments against the regulatory proportion of pension deficits in the UK regulated business, whereas in the US, it is the difference between IFRS and US GAAP pension charges.

2% CPIH and 3% RPI RAV indexation – Future UK revenues are expected to be set using an asset base adjusted for inflation. This is calculated as UK RAV multiplied by 2% long-run CPIH inflation assumption under RIIO-2 and a 3% long-run RPI inflation assumption under RIIO-1.

UK deferred taxation adjustment – Future UK revenues are expected to recover cash taxation cost including the unwinding of deferred taxation balances created in the current year. This is the difference between: (a) IFRS underlying EBITDA less other regulatory adjustments; and (b) IFRS underlying EBITDA less other regulatory adjustments less current taxation (adjusted for interest tax shield) then grossed up at full UK statutory tax rate.

Regulatory depreciation – US and UK regulated revenues include allowance for a return of regulatory capital in accordance with regulatory assumed asset lives. This return does not form part of regulatory profit.

Fast/slow money adjustment – The regulatory remuneration of costs incurred is split between in-year revenue allowances and the creation of additional RAV. This does not align with the classification of costs as operating costs and fixed asset additions under IFRS accounting principles. This is calculated as the difference between IFRS classification of costs as operating costs or fixed asset additions and the regulatory classification.

Regulated asset base

The regulated asset base is a regulatory construct, based on predetermined principles not based on IFRS. It effectively represents the invested capital on which we are authorised to earn a cash return. By investing efficiently in our networks, we add to our regulated asset base over the long term, and this in turn contributes to delivering shareholder value. Our regulated asset base comprises of our regulatory asset value in the UK, plus our rate base in the US.

Maintaining efficient investment in our regulated asset base ensures we are well positioned to provide consistently high levels of service to our customers and increases our revenue allowances in future years. While we have no specific target, our overall aim is to achieve between 6% and 8% growth in regulated asset base each year through continued investment in our networks in both the UK and US.

In the UK, the way in which our transactions impact RAV is driven by principles set out by Ofgem. In a number of key areas these principles differ from the requirements of IFRS, including areas such as additions and the basis for depreciation. Further, our UK RAV is adjusted annually for inflation. RAV in each of our retained UK businesses has evolved over the period since privatisation in 1990, and as a result, historical differences between the initial determination of RAV and balances reported under UK GAAP at that time still persist. In the case of WPD, differences arise as the result of acquisition fair value adjustments (where PP&E at acquisition has been valued above RAV). Due to the above, substantial differences exist in the measurement bases between RAV and an IFRS balance metric, and therefore, it is not possible to provide a meaningful reconciliation between the two.

In the US, rate base is a regulatory measure determined for each of our main US operating companies. It represents the value of property and other assets or liabilities on which we are permitted to earn a rate of return, as set out by the regulatory authorities for each jurisdiction. The calculations are based on the applicable regulatory agreements for each jurisdiction and include the allowable elements of assets and liabilities from our US companies. For this reason, it is not practical to provide a meaningful reconciliation from the US rate base to an equivalent IFRS measure. However, we include the calculation below.

'Total regulated and other balances' for our UK regulated businesses include the under or over-recovery of allowances that those businesses target to collect in any year, which are based on the regulator's forecasts for that year. Under the UK price control arrangements, revenues will be adjusted in future years to take account of actual levels of collected revenue, costs and outputs delivered when they differ from those regulatory forecasts. In the US, other regulatory assets and liabilities include regulatory assets and liabilities which are not included in the definition of rate base, including working capital where appropriate.

'Total regulated and other balances' for NGV and Other businesses includes assets and liabilities as measured under IFRS, but excludes certain assets and liabilities such as pensions, tax, net debt and goodwill. This also includes a £101 million deferred balance for separation and transaction costs already incurred related to the sale of NECO and UK Gas Transmission, which is expected to be offset against the proceeds received on disposal of these businesses in 2022/23.

Year ended 31 March (£m at constant currency)	RAV, rate base or other business assets		Total regulated and other balances	
	2022 £m	2021 ¹ £m	2022 ^{2,3} £m	2021 ^{1,2,3} £m
UK Electricity Transmission	15,486	14,328	15,274	14,050
UK Electricity Distribution	9,250	—	9,307	—
UK Electricity System Operator	296	240	439	351
UK Gas Transmission (excluding metering)	6,561	6,308	6,657	6,335
New England	9,255	8,673	11,052	10,154
New York	12,923	12,014	13,747	12,528
Total regulated	53,771	41,563	56,476	43,418
NGV and Other businesses (including discontinued metering business)	5,226	4,920	4,348	4,584
Total Group regulated and other balances	58,997	46,483	60,824	48,002

- Figures relating to prior periods have, where appropriate, been re-presented at constant currency, for segmental reorganisation, opening balance adjustments following the completion of the UK regulatory reporting pack process and finalisation of US balances.
- Includes totex-related regulatory IOUs of £271 million (2021: £293 million), over-recovered timing balances of £346 million (2021: £153 million under-recovered) and under-recovered legacy balances related to previous price controls of £9 million (2021: £nil).
- Includes assets for construction work-in-progress of £2,139 million (2021: £1,671 million), other regulatory assets related to timing and other cost deferrals of £759 million (2021: £714 million) and net working capital liabilities of £277 million (2021: £390 million).

New England and New York rate base and other total regulated and other balances for 31 March 2021 have been re-presented in the table above at constant currency. At actual currency the values were £9.7 billion and £11.9 billion respectively.

Group RoE

Group RoE provides investors with a view of the performance of the Group as a whole compared with the amounts invested by the Group in assets attributable to equity shareholders. It is the ratio of our regulatory financial performance to our measure of equity investment in assets. It therefore reflects the regulated activities as well as the contribution from our non-regulated businesses together with joint ventures and non-controlling interests.

We use Group RoE to measure our performance in generating value for our shareholders, and targets for Group RoE are included in the incentive mechanisms for executive remuneration within both the APP and LTPP schemes.

Group RoE is underpinned by our regulated asset base. For the reasons noted above, no reconciliation to IFRS has been presented, as we do not believe it would be practical. However, we do include the calculations below.

Calculation: Regulatory financial performance including a long-run inflation assumption (3% RPI for RIIO-1; 2% CPIH for RIIO-2), less adjusted interest and adjusted taxation divided by equity investment in assets:

- adjusted interest removes interest on pensions, capitalised interest in regulated operations and unwind of discount rate on provisions;
- adjusted taxation adjusts the Group taxation charge for differences between IFRS profit before tax and regulated financial performance less adjusted interest; and
- equity investment in assets is calculated as the total opening UK regulatory asset value, the total opening US rate base plus goodwill plus opening net book value of National Grid Ventures and Other activities (excluding certain amounts such as pensions, tax and commodities) and our share of joint ventures and associates, minus opening net debt as reported under IFRS restated to the weighted average £/\$ exchange rate for the year.

Year ended 31 March	2022 £m	2021 £m	2020 £m
Regulated financial performance	3,684	3,381	3,507
Operating profit of other activities – continuing operations	330	144	153
Operating profit of other activities – discontinued operations	150	157	155
Group financial performance	4,164	3,682	3,815
Share of post-tax results of joint ventures and associates	148	66	88
Non-controlling interests	(1)	(1)	(1)
Adjusted total Group interest charge (including discontinued)	(1,191)	(882)	(1,069)
Total Group tax charge (including discontinued)	(761)	(416)	(433)
Tax on adjustments	43	(175)	(117)
Total Group financial performance after interest and tax	2,402	2,274	2,283
Opening rate base/RAV	41,043	39,552	37,459
Opening other balances	4,864	3,984	3,304
Opening goodwill	5,266	5,295	5,435
Opening capital employed	51,173	48,831	46,198
Opening net debt	(30,072)	(27,398)	(27,194)
Opening equity	21,101	21,433	19,004
Return on Equity¹	11.4%	10.6%	12.0%

- Group RoE methodology amended in 2021/22 to calculate accretion charge on inflation-linked debt at long-run inflation rates. This provides alignment to treatment of RAV indexation in the metric. Prior year comparatives have not been restated.

Other unaudited financial information continued

UK and US regulated RoE

Year ended 31 March	Regulatory Debt: Equity assumption	Achieved Return on Equity		Base or Allowed Return on Equity	
		2022 %	2021 %	2022 %	2021 %
UK Electricity Transmission	55/45 (2021: 60/40)	7.7	13.8	6.3	10.2
UK Electricity Distribution	65/35	13.6	—	9.6	—
UK Gas Transmission	60/40 (2021: 62.5/37.5)	7.8	9.6	6.6	10.0
New England	Avg. 46/54	8.3	7.5	9.8	9.8
New York	Avg. 52/48	8.8	6.7	8.9	9.0

UK businesses' regulated RoEs

UK regulated businesses' RoEs are a measure of how the businesses are performing against the assumptions used by our UK regulator. These returns are calculated using the assumption that the businesses are financed in line with the regulatory adjudicated capital structure, at the cost of debt assumed by the regulator, and that inflation is equal to a long-run assumption of 3% RPI under RIIO-1 and 2% CPIH under RIIO-2. They are calculated by dividing elements of out/under-performance versus the regulatory contract (i.e. regulated financial performance disclosed above) by the average equity RAV in line with the regulatory assumed capital structure and adding to the base allowed RoE.

These are important measures of UK regulated businesses' performance, and our operational strategy continues to focus on these metrics. These measures can be used to determine how we are performing under the RIIO framework and also helps investors to compare our performance with similarly regulated UK entities. Reflecting the importance of these metrics, they are also key components of the APP scheme.

The respective businesses' UK RoEs are underpinned by their RAVs. For the reasons noted above, no reconciliation to IFRS has been presented, as we do not believe it would be practical.

US businesses' regulated RoEs

US regulated businesses' RoEs are a measure of how the businesses are performing against the assumptions used by the US regulators. This US operational return measure is calculated using the assumption that the businesses are financed in line with the regulatory adjudicated capital structure and allowed cost of debt. The returns are divided by the average rate base (or where a reported rate base is not available, an estimate based on rate base calculations used in previous rate filings) multiplied by the adjudicated equity portion in the regulatory adjudicated capital structure.

These are important measures of our New England and New York regulated businesses' performance, and our operational strategy continues to focus on these metrics. This measure can be used to determine how we are performing and also helps investors compare our performance with similarly regulated US entities. Reflecting the importance of these metrics, they are also key components of the APP scheme.

The New England and New York businesses' returns are based on a calculation which gives proportionately more weighting to those businesses which have a greater rate base. For the reasons noted above, no reconciliations to IFRS for the RoE measures have been presented, as we do not believe it would be practical to reconcile our IFRS balance sheet to the equity base.

The table below shows the principal differences between the IFRS result of the New England and New York segments, and the 'returns' used to derive their respective US jurisdictional RoEs. In outlining these differences, we also include the aggregated business results under US GAAP for New England and New York jurisdictions.

In respect of 2020/21 and 2019/20, this measure is the aggregate operating profit of our US OpCo entities' publicly available financial statements prepared under US GAAP for the New England and New York jurisdictions respectively. For 2021/22, this measure represents our current estimate, since local financial statements have yet to be prepared.

	2022 £m	2021 £m	2020 £m
Underlying IFRS operating profit for New England segment	886	727	680
Underlying IFRS operating profit for New York segment	706	722	917
Weighted average £/\$ exchange rate	\$1.348	\$1.341	\$1.287

	New England			New York		
	2022 \$m	2021 \$m	2020 \$m	2022 \$m	2021 \$m	2020 \$m
Underlying IFRS operating profit for US segments	1,194	974	874	951	969	1,181
<i>Adjustments to convert to US GAAP as applied in our US OpCo entities</i>						
Adjustment in respect of customer contributions	(35)	(28)	(24)	(30)	(31)	(25)
Pension accounting differences ¹	14	8	43	88	(2)	(51)
Environmental charges recorded under US GAAP	3	(14)	2	42	(94)	(95)
Storm costs and recoveries recorded under US GAAP	(75)	(86)	(43)	(8)	(27)	34
Other regulatory deferrals, amortisation and other items	(253)	58	(5)	46	43	1
Results for US regulated OpCo entities, aggregated under US GAAP²	848	912	847	1,089	858	1,045
<i>Adjustments to determine regulatory operating profit used in US RoE</i>						
Levelisation revenue adjustment	—	—	—	—	—	(122)
Adjustment for COVID-19-related provision for bad and doubtful debts ³	—	(44)	84	—	171	66
Net other	71	(14)	(13)	85	(16)	74
Regulatory operating profit	919	854	918	1,174	1,013	1,063
Pensions ¹	7	(31)	(4)	107	(13)	21
Regulatory interest charge	(227)	(221)	(200)	(316)	(314)	(285)
Regulatory tax charge	(179)	(155)	(183)	(263)	(185)	(216)
Regulatory earnings used to determine US RoE	520	447	531	702	501	583

1. Following a change in US GAAP accounting rules, an element of the pensions charge is reported outside operating profit with effect from 2019.

2. Based on US GAAP accounting policies as applied by our US regulated OpCo entities.

3. US RoE includes an adjustment reflecting our expectation for future recovery of COVID-19-related bad and doubtful debt costs.

	New England			New York		
	2022 \$m	2021 \$m	2020 \$m	2022 \$m	2021 \$m	2020 \$m
US equity base (average for the year)	6,253	5,960	5,422	7,946	7,452	6,721
US jurisdiction RoE	8.3%	7.5%	9.8%	8.8%	6.7%	8.7%

Value Added and Value Added per share and Value Growth

Value Added is a measure that reflects the value to shareholders of our cash dividend and the growth in National Grid's regulated and non-regulated assets (as measured in our regulated asset base, for regulated entities), and corresponding growth in net debt. It is a key metric used to measure our performance and underpins our approach to sustainable decision making and long-term management incentive arrangements.

Value Added is derived using our regulated asset base and, as such, it is not practical to provide a meaningful reconciliation from this measure to an equivalent IFRS measure due to the reasons set out for our regulated asset base. However, the calculation is set out in the Financial review. Value Added per share is calculated by dividing Value Added by the weighted average number of shares (3,599 million) set out in note 8.

Value Growth of 12.8% (2021: 9.4%) is derived from Value Added by adjusting Value Added to normalise for our estimate of the long-run inflation rate (3% RPI for RIIO-1 and our RPI-linked net debt; 2% CPIH for RIIO-2). In 2021, the numerator for Value Growth was £2,730 million (2021: £1,995 million). The denominator is Group equity as used in the Group RoE calculation, adjusted for foreign exchange movements.

Asset growth

Asset growth is the annual percentage increase in our RAV and rate base and other business balances (including the assets of NGV and NGP) calculated at constant currency.

Regulatory gearing

Regulatory gearing is a measure of how much of our investment in RAV and rate base and other elements of our invested capital (including our investments in NGV, UK property and other assets and US other assets) is funded through debt. Comparative amounts as at 31 March 2021 are presented at historical exchange rates and have not been restated for opening balance adjustments.

	2022 £m	2021 £m	
As at 31 March			
UK RAV	31,593	20,872	
US rate base	22,178	20,041	
Other invested capital included in gearing calculation	5,226	4,458	
Total assets included in gearing calculation	58,997	45,371	
Net debt (including 100% of hybrid debt and held for sale)	(48,043)	(29,665)	change
Group gearing (based on 100% of net debt including held for sale)	81%	65%	16% pts
Group gearing (excluding 50% of hybrid debt from net debt) including held for sale	80%	63%	17% pts

Commentary on consolidated financial statements

for the year ended 31 March 2021

In compliance with SEC rules, we present a summarised analysis of movements in the income statement and an analysis of movements in adjusted operating profit (for the continuing Group) by operating segment. This should be read in conjunction with the 31 March 2022 Financial review included on pages 36 – 49.

Analysis of the income statement for the year ended 31 March 2021

Revenue

Revenue from continuing operations for the year ended 31 March 2021 increased by £305 million to £13,665 million. Revenues were driven by a £302 million increase in UK Electricity System Operator (mainly as a result of higher balancing service pass-through costs, offset by year-on-year timing under-recoveries). Rate increases in both New England and New York were more than offset by lower revenues for commodity pass-through costs. Revenue from NGV and Other increased by £34 million, related to our US renewables business and Partners gains, partly offset by lower Property sales.

Operating costs

Operating costs from continuing activities for the year ended 31 March 2021 of £10,939 million were £92 million higher than prior year. This increase in costs was offset by a £499 million reduction in exceptional items and remeasurements income compared to 2019/20, principally related to the US environmental provision booked in 2019/20 and year-on-year movements in commodity contract remeasurements. In addition, higher operating costs were driven by higher UK BSIS pass-through costs, higher workforce costs and higher depreciation as a result of continued asset investment. This was partially offset by the impact of lower costs in respect of purchases of gas and electricity and the impact of movement in foreign exchange.

In addition to the operating costs of £10,939 million above, provisions for bad and doubtful debts of £325 million were recorded, £91 million higher than the year ended 31 March 2020, principally as a result of the continued impact of COVID-19 on the Group's operations.

Net finance costs

For the year ended 31 March 2021, net finance costs from continuing operations before exceptional items and remeasurements were £64 million lower than the year ended 31 March 2020 at £865 million driven by the impact of lower inflation on our RPI-linked debt, new debt issued at lower rates, a higher net debt as a result of asset growth, termination fees incurred in the prior year and favourable foreign exchange movements, partly offset by higher interest on pension and OPEB liabilities and a higher benefit from interest on tax settlements in 2019/20.

Tax

The tax charge on profits before exceptional items and remeasurements of £334 million was £28 million lower than the year ended 31 March 2020. This was mainly related to a lower level of profit before tax in the year ended 31 March 2021 compared to the year ended 31 March 2020.

Exceptional items and remeasurements

In the year ended 31 March 2021, exceptional items included a £50 million charge in relation to our new operating model implementation costs alongside a £24 million charge in relation to transaction and separation costs (principally in relation to the acquisition of WPD). A £14 million credit was also recognised relating to the release of environmental provisions for one of our Superfund sites for the which the original provision was treated as an exceptional item.

In the prior year, exceptional items included a £400 million charge associated with changes in our environmental provisions and an additional deferred tax charge of £148 million reflecting the impact of the remeasurement of the Group's deferred tax liabilities as a result of a change in the substantively enacted UK corporation tax rate.

Remeasurement gains of £34 million were recognised on commodity contracts in the year ended 31 March 2021 compared with losses of £125 million in the year ended 31 March 2020.

Finance costs for the year ended 31 March 2021 included a net gain of £70 million on financial remeasurements of derivative financial instruments and financial assets at fair value through profit or loss, compared to a net loss of £37 million on financial remeasurements in the year ended 31 March 2020.

Share of post-tax results of joint ventures and associates before exceptional items for the year ended 31 March 2021 were £66 million compared to £88 million in the year ended 31 March 2020, principally due to reduced profits in St William, our Property joint venture.

Profit after tax from discontinued operations

Profit after tax from discontinued operations increased by £102 million to £337 million. This included exceptional costs and remeasurements of £3 million in 2020/21 compared to £82 million in 2019/20. Excluding exceptional items and remeasurements, adjusted operating profit was broadly flat compared to the year ended 31 March 2020. There was an overall reduction of £37 million in the net financing costs attributable to discontinued operations mostly driven by the impact of RPI on our inflation-linked debt. Tax for discontinued operations was £82 million in the year ended 31 March 2021, a £10 million higher tax charge than the prior year driven by higher levels of profit.

Adjusted earnings and EPS from continuing operations

Adjusted earnings and EPS, which exclude exceptional items and remeasurements, are provided to reflect the Group's results on an 'adjusted profit' basis, described further in note 5. See page 270 for a reconciliation of adjusted basic EPS to EPS.

The above earnings performance translated into adjusted EPS in the year ended 31 March 2021 of 36.7p, compared to 46.2p in the year ended 31 March 2020. Including discontinued operations, adjusted EPS in the year ended 31 March 2021 of 46.4p, compared to 55.4p in the year ended 31 March 2020.

Exchange rates

Our financial results are reported in sterling. Transactions for our US operations are denominated in dollars, so the related amounts that are reported in sterling depend on the dollar to sterling exchange rate. The table below shows the average and closing exchange rates of sterling to US dollars.

	2020/21	2019/20	% change
Weighted average (income statement)	1.34	1.29	4%
Year end (statement of financial position)	1.38	1.24	11%

The movement in foreign exchange during the year ended 31 March 2021 has resulted in a £374 million decrease in revenue, a £55 million decrease in adjusted operating profit and a £65 million decrease in underlying operating profit.

Analysis of the adjusted operating profit by segment for the year ended 31 March 2021

UK Electricity Transmission

For the year ended 31 March 2021, revenue in the UK Electricity Transmission segment decreased by £12 million to £1,974 million, and adjusted operating profit increased by £15 million to £1,094 million. Revenue was lower principally as the result of lower pass-through costs and lower incentives. Excluding pass-through costs, net revenue was £14 million higher, as a result of income from legal settlements, the result of RAV indexation from inflation, offset by adverse MOD adjustments, lower base revenues and lower timing over-recoveries (incentives and lower collection of prior period under-recoveries). Regulated controllable costs were £16 million lower, reflecting inflation and higher IT costs, but these were more than offset by efficiency savings. Depreciation and amortisation was £29 million higher due to prior year impairment, a full year of Western Link and provision releases in the year ended 31 March 2021. Other costs were £21 million higher, principally the result of credits related to diversions arising in the prior year.

Capital expenditure increased by £33 million compared with the year ended 31 March 2020 to £984 million reflecting increased activity on Hinkley Seabank, London Power Tunnels 2 and higher capex on the Dorset Visual Impact Provision project in the year ended 31 March 2021.

UK Electricity System Operator

For the year ended 31 March 2021, revenue in the UK Electricity System Operator segment increased by £302 million to £2,018 million but this was principally as the result of higher pass-through costs, which increased from £1,351 million in 2019/20 to £1,911 million in 2020/21 (principally reflecting higher balancing service costs due to reduced demand as a result of COVID-19 and higher intervention costs required to balance the grid). Excluding pass-through costs, net revenue was £271 million lower, as the result of £130 million timing under-recoveries in 2020/21 compared to £60 million over-recoveries in 2019/20 (mainly lower volumes and the impact of the BSUoS deferral scheme). Regulated controllable costs were broadly flat, with inflation and higher IT costs being offset by efficiency savings. Depreciation and amortisation was £9 million higher due to higher asset commissioning.

Capital expenditure decreased by £4 million compared with the year ended 31 March 2020.

New England

Revenue in the New England segment decreased by £21 million to £4,214 million and adjusted operating profit increased by £88 million to £611 million.

The weaker US dollar decreased revenue and operating profit in the year ended 31 March 2021. Excluding the impact of foreign exchange rate movements, revenue increased by £137 million. Of this increase, £134 million was due to decrease in commodity pass-through costs charged on to customers, and £139 million was due to year-on-year timing movements as a result of under-collection of revenues compared to our regulatory allowances in the year ended 31 March 2020. Excluding pass-through costs and timing swings, net revenue increased by £410 million at constant currency, principally reflecting increased revenue allowances under rate plans. Regulated controllable costs increased by £76 million (excluding the impact of foreign exchange) as a result of increased IT costs and inflation partly offset by efficiency savings.

Capital expenditure increased by £127 million (excluding the impact of foreign exchange movements) to £1,437 million, mainly related to increased investment in wholesale networks (including line and cable relocation in NECO, higher LNG spend and also asset refurbishment in New England Power.

New York

Revenue in our New York segment increased by £4 million to £4,605 million, but adjusted operating profit decreased by £170 million to £665 million.

The weaker US dollar decreased revenue and operating profit in the year ended 31 March 2021. Excluding the impact of foreign exchange rate movements, revenue increased by £176 million. Of this increase, £64 million was due to increases in commodity pass-through costs charged on to customers, and £67 million was due to year-on-year timing movements as a result of under-collection of revenues compared to our regulatory allowances in the year ended 31 March 2020. Excluding pass-through costs and timing swings, net revenue increased by £179 million at constant currency, principally reflecting increased revenue allowances under rate plans.

Excluding the impact of foreign exchange movements, regulated controllable costs increased by £24 million as a result of increased IT costs and inflation offset by cost efficiencies. Bad debt expense increased by £132 million at constant currency, driven by additional provisions for receivables related to the impact of COVID-19.

Depreciation and amortisation increased by £34 million year-on-year (excluding foreign exchange adjustments) to £453 million due to ongoing investment in our networks.

Capital expenditure decreased by £16 million (excluding the impact of foreign exchange) to £1,738 million, mainly the consequence of reduced investment in downstate New York (gas pipeline and mandated gas works) which were impacted by disruptions due to COVID-19, mostly offset by damage repair (driven by storm activity in Niagara Mohawk) and accelerated spend in REV (New York's 'Reforming the Energy Vision' programme) and Grid Modernisation, higher IT spend and lease additions.

NGV and Other

For the year ended 31 March 2021, revenue in the NGV and Other segment increased by £30 million to £864 million and adjusted operating profit decreased by £9 million to £117 million. This reflected higher revenues in our US renewables business, partly offset by lower site sales in our commercial property business and reduced income from support services supplied to Cadent compared to the prior year.

Capital investment was significantly lower at £480 million in 2020/21, representing a decrease of £82 million year-on-year. This was principally due to the £209 million acquisition of Geronimo in 2019/20, lower investment in IFA2 which became operational in 2020/21, reduced cable converter spend on North Sea Link, but increased investment in Viking Link and higher investments in NG Partners.

Discontinued operations – UK Gas Transmission (and metering)

For the year ended 31 March 2021, revenue in the UK Gas Transmission segment decreased by £66 million to £1,114 million and adjusted operating profit decreased by £4 million to £499 million. Revenue was impacted by lower pass-through costs, adverse year-on-year timing under-recoveries. Net revenue (adjusted for timing) was higher, reflecting the impact of prior year return of Fleetwood allowances and the RPI uplift, partly offset by re-opener allowances in 2019/20 for cyber and data centres and reduced meter population (as these are replaced by smart meters). Regulated controllable costs were £5 million lower principally driven by efficiency savings. Depreciation and amortisation was lower mainly due to reduction in meter population.

Capital expenditure reduced by £84 million to £204 million, mainly related to the completion of the Feeder 9 gas pipeline replacement project and Peterborough and Huntingdon compressor stations.

Five-year summary financial information

Financial summary (unaudited)

The financial summary set out below has been derived from the audited consolidated financial statements of National Grid for the five financial years ended 31 March 2022. It should be read in conjunction with the consolidated financial statements and related notes, together with the Strategic Report. The information presented below is adjusted for the matters described in the footnotes below for the years ended 31 March 2022, 2021, 2020, 2019 and 2018 where relevant and has been prepared under IFRS as issued by the IASB and as adopted by the UK.

Summary income statement (£m)	2022	2021 ¹	2020 ¹	2019 ¹	2018 ¹
Continuing operations					
Revenue	18,449	13,665	13,360	13,730	13,836
Operating profit					
Before exceptional items, remeasurements	3,813	2,427	2,804	2,963	2,809
Exceptional items, remeasurements	558	(26)	(525)	(536)	19
Profit before tax					
Before exceptional items, remeasurements	2,880	1,628	1,963	2,156	2,058
Exceptional items, remeasurements	561	36	(563)	(595)	119
Profit after tax from continuing operations					
Before exceptional items, remeasurements	2,211	1,294	1,601	1,736	1,562
Exceptional items, remeasurements	(28)	10	(571)	(456)	1,600
Profit/(loss) after tax from discontinued operations					
Before exceptional items, remeasurements	344	340	317	322	499
Exceptional items, remeasurements	(173)	(3)	(82)	(88)	(110)
Gain on disposal of UK Gas Distribution after tax	—	—	—	—	—
Total profit for the year	2,354	1,641	1,265	1,514	3,551
Profit for the year attributable to equity shareholders					
Before exceptional items, remeasurements	2,554	1,633	1,917	2,055	2,060
Exceptional items, remeasurements	(201)	7	(653)	(544)	1,490
Gain on disposal of UK Gas Distribution after tax	—	—	—	—	—
Total	2,353	1,640	1,264	1,511	3,550
Earnings per share					
Basic – continuing operations (pence)	60.6	37.0	29.7	44.3	102.5
Diluted – continuing operations (pence)	60.3	36.8	29.6	44.1	102.1
Basic – total (pence)	65.4	46.6	36.5	44.6	102.6
Diluted – total (pence)	65.0	46.3	36.3	44.4	102.1
Weighted average number of shares – basic (millions)	3,599	3,523	3,461	3,386	3,461
Weighted average number of shares – diluted (millions)	3,616	3,540	3,478	3,401	3,476
Dividends per ordinary share					
Paid during the year (pence)	49.37	49.00	47.83	46.52	128.97
Approved or proposed during the year (pence)	50.97	49.16	48.57	47.34	45.93
Paid during the year (\$)	0.628	0.628	0.615	0.607	1.751
Approved or proposed during the year (\$)	0.682	0.682	0.625	0.618	0.624

1. Items previously reported have been re-presented to reflect the classification of the UK Gas Transmission business as a discontinued operation in 2022. Items previously reported for 2018 have been re-presented to reflect our investment in Quadgas HoldCo Limited being presented as a discontinued operation in 2019.

Summary statement of net assets (£m)	2022	2021	2020	2019	2018
Non-current assets	76,897	57,278	61,759	55,466	52,106
Current assets	17,963	9,938	5,801	7,946	6,681
Total assets	94,860	67,216	67,560	63,412	58,787
Current liabilities	(24,770)	(9,368)	(8,564)	(9,129)	(8,697)
Non-current liabilities	(46,234)	(37,988)	(39,203)	(34,715)	(31,242)
Total liabilities	(71,004)	(47,356)	(47,767)	(43,844)	(39,939)
Net assets	23,856	19,860	19,793	19,568	18,848
Total shareholders' equity	23,833	19,839	19,771	19,548	18,832

Definitions and glossary of terms

Our aim is to use plain English in this Annual Report and Accounts. However, where necessary, we do use a number of technical terms and abbreviations. We summarise the principal ones below, together with an explanation of their meanings. The descriptions below are not formal legal definitions. Alternative and Regulatory Performance Measures are defined on pages 268 – 279.

A

Adjusted interest

A measure of the interest charge of the Group, calculated by making adjustments to the Group reported interest charge.

Adjusted net debt

A measure of the indebtedness of the Group, calculated by making adjustments to the Group reported borrowings, including adjustments made to include elements of pension deficits and exclude elements of hybrid debt financing.

Adjusted results (also referred to as headline results)

Financial results excluding the impact of exceptional items and remeasurements that are treated as discrete transactions under IFRS and can accordingly be classified as such. This is a measure used by National Grid management that forms part of the incentive target set annually for remunerating certain Executive Directors, and further details of these items are included in note 5 to the financial statements.

American Depositary Shares (ADSs)

Securities of National Grid listed on the New York Stock Exchange, each of which represents five ordinary shares. They are evidenced by American Depositary Receipts or ADRs.

Annual General Meeting (AGM)

Meeting of shareholders of the Company held each year to consider ordinary and special business as provided in the Notice of AGM.

B

BEIS

The Department for Business, Energy and Industrial Strategy, the UK government department responsible for business, industrial strategy, and science and innovation with energy and climate change policy.

bps

Basis point (bp, bps) is a unit that is equal to 1/100th of 1% and is typically used to denote the movement in a percentage-based metric such as interest rates or RoE. A 0.1% change in a percentage represents 10 basis points.

Board

The Board of Directors of the Company (for more information, see pages 88 and 89).

BritNed

BritNed Development Limited, a joint venture company in which National Grid and TenneT, the Dutch national transmission system operator, each hold 50% of the shares.

C

Called-up share capital

Shares (common stock) that have been issued and have been fully paid for.

Capital tracker

In the context of our US rate plans, this is a mechanism that allows the recovery of the revenue requirement of incremental capital investment above that embedded in base rates, including depreciation, property taxes and a return on the incremental investment.

Carbon capture usage and storage (CCUS)

The process of capturing carbon dioxide (CO₂) for the purpose of recycling it for further usage and/or determining safe and permanent storage options for it.

Carrying value

The amount at which an asset or a liability is recorded in the Group's statement of financial position and the Company's balance sheet.

Child risk

A management team or directorate level owned or managed risk that has a supportive or contributing relationship to a GPR or other risk at a higher escalation level.

The Company, the Group, National Grid, we, our or us

We use these terms to refer to either National Grid plc itself or to National Grid plc and/or all or certain of its subsidiaries, depending on context.

Consolidated financial statements

Financial statements that include the results and financial position of the Company and its subsidiaries together as if they were a single entity.

Constant currency

'Constant currency basis' refers to the reporting of the actual results against the results for the same period last year, which, in respect of any US\$ currency denominated activity, have been translated using the average US\$ exchange rate for the year ended 31 March 2022, which was \$1.3483 to £1. The average rate for the year ended 31 March 2021 was \$1.34 to £1, and for the year ended 31 March 2020 was \$1.29 to £1. Assets and liabilities as at 31 March 2021 have been retranslated at the closing rate at 31 March 2022 of \$1.3144 to £1. The closing rate for the balance sheet date 31 March 2021 was \$1.38 to £1.

Contingent liabilities

Possible obligations or potential liabilities arising from past events for which no provision has been recorded, but for which disclosure in the financial statements is made.

COP26

The 26th UN Climate Change Conference of the Parties which the UK hosted at the Scottish Event Campus in Glasgow from 1 to 12 November 2021. The climate talks brought together heads of state, climate experts and campaigners to agree coordinated action to tackle climate change. The Company was a principal partner of COP26.

COVID-19

COVID-19 or coronavirus disease 2019 is an infectious disease caused by severe acute respiratory syndrome.

CPIH

The UK Consumer Prices Index including Owner Occupiers' Housing Costs as published by the Office for National Statistics.

D

DB

Defined benefit, relating to our UK or US (as the context requires) final salary pension schemes.

DC

Defined contribution, relating to our UK or US (as the context requires) pension schemes to which National Grid, as an employer, pays contributions based on a percentage of employees' salaries.

Deferred tax

For most assets and liabilities, deferred tax is the amount of tax that will be payable or receivable in respect of that asset or liability in future tax returns as a result of a difference between the carrying value for accounting purposes in the statement of financial position or balance sheet and the value for tax purposes of the same asset or liability.

Deposit agreement

The amended and restated deposit agreement entered into between National Grid plc, the Depositary and all the registered holders from time to time of ADRs, pursuant to which ADSs have been issued, dated 23 May 2013, and any related agreement.

Depositary

The Bank of New York Mellon acting as ADS depositary.

Derivative

A financial instrument or other contract where the value is linked to an underlying index, such as exchange rates, interest rates or commodity prices. In most cases, we exclude contracts for the sale or purchase of commodities that are used to supply customers or for our own needs from this definition.

Directors/Executive Directors/ Non-executive Directors

The Directors/Executive Directors and Non-executive Directors of the Company, whose names are set out on pages 88 and 89 of this document.

Distributed energy resources (DER)

Decentralised assets, generally located behind the meter, covering a range of technologies including solar, storage, electric vehicle charging, district heating, smart street lighting and combined heat and power.

Definitions and glossary of terms continued

Diversity, equity and inclusion (DEI)

National Grid is committed to creating a work environment where people are treated fairly and where everyone feels respected, valued and empowered to reach their full potential. Our mission is to build a business that represents, reflects and celebrates the cultures and communities we serve.

Dollars or \$

Except as otherwise noted, all references to dollars or \$ in this Annual Report and Accounts relate to the US currency.

Dth

Decatherm, being an amount of energy equal to 1 million British thermal units (BTUs), equivalent to approximately 293 kWh.

E

Earnings per share (EPS)

Profit for the year attributable to equity shareholders of the Company allocated to each ordinary share.

Electricity System Operator (ESO)

The party responsible for the long-term strategy, planning and real-time operation (balancing supply and demand) of the electricity system in Great Britain.

Electricity Transmission (ET)

National Grid's UK electricity transmission business.

Employee engagement

A key performance indicator (KPI), based on the percentage of favourable responses to certain indicator questions repeated in each employee survey. It is used to measure how employees think, feel and act in relation to National Grid. Research shows that a highly engaged workforce leads to increased productivity and employee retention. We use employee engagement as a measure of organisational health in relation to business performance.

Employee resource group (ERG)

A group of employees who join together in their workplace based on shared characteristics or life experiences.

Estate Tax Convention

The convention between the US and the UK for the avoidance of double taxation with respect to estate and gift taxes.

EU

The European Union (EU) is the economic and political union of 27 member states located in Europe. The UK left the European Union on 31 January 2020.

Exchange Act

The US Securities Exchange Act 1934, as amended.

F

FERC

The US Federal Energy Regulatory Commission.

Finance lease

A lease where the asset is treated as if it was owned for the period of the lease, and the obligation to pay future rentals is treated as if they were borrowings. Also known as a capital lease.

Financial year

For National Grid this is an accounting year ending on 31 March. Also known as a fiscal year.

FRS

A UK Financial Reporting Standard as issued by the UK Financial Reporting Council (FRC). It applies to the Company's individual financial statements on pages 235 – 241, which are prepared in accordance with FRS 101.

Funds from Operations (FFO)

A measure used by the credit rating agencies of the operating cash flows of the Group after interest and tax but before capital investment.

G

Gas Transmission (GT)

National Grid's UK gas transmission business.

Grain LNG

National Grid Grain LNG Limited.

Great Britain (GB)

England, Wales and Scotland.

Green capital investment (green capex)

Capital expenditure invested in decarbonisation of energy systems and considered to be aligned with the principles of the EU Taxonomy legislation at the date of reporting.

Group Principal Risk (GPR)

A principal risk faced by the Company as monitored and assessed by the Board, details of which are set out on pages 28 – 32.

Group Value Growth

Group Value Growth is Group-wide Value Added expressed as a proportion of Group equity. See page 43 for an explanation of Value Added.

Groupwide value added

Normalised for assumed long run inflation expressed as a proportion of group equity.

GW

Gigawatt, an amount of power equal to 1 billion watts (10⁹ watts).

GWh

Gigawatt hours, an amount of energy equivalent to delivering 1 billion watts (10⁹ watts) of power for a period of one hour.

H

HMRC

HM Revenue & Customs. The UK tax authority.

HVDC

High-voltage, direct-current electric power transmission that uses direct current for the bulk transmission of electrical power, in contrast to the more common alternating current systems.

I

IAS or IFRS

An International Accounting Standard (IAS) or International Financial Reporting Standard (IFRS), as issued by the International Accounting

Standards Board (IASB). IFRS is also used as the term to describe international generally accepted accounting principles as a whole.

Individual financial statements

Financial statements of a company on its own, not including its subsidiaries or joint ventures and associates.

Interest cover

A measure used by the credit rating agencies, calculated as FFO plus adjusted interest divided by adjusted interest.

J

Joint venture (JV)

A company or other entity that is controlled jointly with other parties.

K

KEDLI

KeySpan Gas East Corporation, also known as KeySpan Energy Delivery Long Island.

KEDNY

The Brooklyn Union Gas Company, also known as KeySpan Energy Delivery New York.

KPI

Key performance indicator.

kW

Kilowatt, an amount of power equal to 1,000 watts.

L

LIPA

The Long Island Power Authority.

LNG

Liquefied natural gas is natural gas that has been condensed into a liquid form, typically at temperatures at or below -161°C (-258°F).

Lost time injury (LTI)

An incident arising out of National Grid's operations that leads to an injury where the employee or contractor normally has time off for the following day or shift following the incident. It relates to one specific (acute) identifiable incident which arises as a result of National Grid's premises, plant or activities, and was reported to the supervisor at the time and was subject to appropriate investigation.

Lost time injury frequency rate (LTIFR)

The number of lost time injuries (LTIs) per 100,000 hours worked in a 12-month period.

M

MADPU

The Massachusetts Department of Public Utilities.

MW

Megawatt, an amount of power equal to 1 million watts (10⁶ watts).

MWh

Megawatt hours, an amount of energy equivalent to delivering 1 million watts (10⁶ watts) of power for a period of one hour.

N

National Grid Metering Limited (NGM)

The Company's UK regulated metering business.

National Grid Partners (NGP)

The Company's venture investment and innovation business established in November 2018.

National Grid Renewables (NGR)

This business, which includes the renewables development company formerly known as Geronimo, is a leading developer of wind and solar generation based in Minneapolis in the US. National Grid acquired Geronimo in July 2019.

National Grid Ventures (NGV)

The Company's division that operates outside its core UK and US Regulated businesses, comprising a broad range of activities in the UK and US, including National Grid Renewables, electricity interconnectors, the Grain LNG terminal and energy metering, as well as being tasked with investment in adjacent businesses and distributed energy opportunities.

National Transmission System (NTS)

The gas National Transmission System in Great Britain.

NECO

The Narragansett Electric Company, National Grid's electricity transmission and distribution service provider to, as well as a natural gas distribution company in, Rhode Island.

NECO Sale

The agreed sale by National Grid to PPL of NECO, conditional upon completion of the WPD Acquisition and receipt of certain regulatory approvals, which is expected to complete by the end of Q1 2022/23.

Nemo Link

Nemo Link Limited, a joint venture company in which National Grid and Elia, the Belgian national transmission system operator, each hold 50% of the shares.

Net Promoter Score (NPS)

A commonly used tool to measure customer experience to gauge the loyalty of a company's customer relationships. It is an index ranging from -100 to +100.

Net zero

Net zero means that a person, legal entity (such as a company), country or other body's own emissions of greenhouse gases are either zero or that its remaining greenhouse gas emissions are balanced by schemes to offset, through the removal of an equivalent amount of greenhouse gases from the atmosphere, such as planting trees or using technology like carbon capture and storage.

New England

The term refers to a region within the northeastern US that includes the states of Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island and Vermont. National Grid's New England operations are primarily in the states of Massachusetts and Rhode Island.

NGGT Sale

The sale, agreed by the Company and announced on 27 March 2022, of a 60% equity stake in its UK Gas Transmission and legacy metering businesses to a consortium comprising Macquarie Asset Management and British Columbia Investment Management Corporation. The sale is subject to certain antitrust and regulatory conditions and is expected to close in the second half of 2022. The consortium also has an option on the remaining 40%, on broadly similar terms which can be exercised through the first half of 2023.

Northeastern US

The northeastern region of the US, comprising the states of Connecticut, Maine, Massachusetts, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island and Vermont.

NYPSC

The New York Public Service Commission.

O

Ofgem

The UK Office of Gas and Electricity Markets is part of the UK Gas and Electricity Markets Authority (GEMA), which regulates the energy markets in the UK.

OPEB

Other post-employment benefits.

Ordinary shares

Voting shares entitling the holder to part ownership of a company. Also known as common stock. National Grid's ordinary shares have a nominal value of 12²⁰⁴⁴⁷³ pence following the share consolidation approved at the General Meeting of the Company held on 19 May 2017.

P

Paris Agreement

The agreement, also known as the Paris Climate Accord, within the United Nations Framework Convention on Climate Change dealing with greenhouse gas emissions mitigation, adaptation and finance starting in the year 2020, and adopted by consensus on 12 December 2015.

PPL

PPL Corporation, a US energy company headquartered in Pennsylvania.

Price control

The mechanism by which Ofgem sets restrictions on the amounts of revenue we are allowed to collect from customers in our UK businesses. The allowed revenues are intended to cover efficiently incurred operational expenditure, capital expenditure and financing costs, including a Return on Equity invested.

R

Rate base

The base investment on which the utility is authorised to earn a cash return. It includes the original cost of facilities, minus depreciation, an allowance for working capital and other accounts.

Rate plan

The term given to the mechanism by which a US utility regulator sets terms and conditions for utility service, including, in particular, tariffs and

rate schedules. The term can mean a multi-year plan that is approved for a specified period, or an order approving tariffs and rate schedules that remain in effect until changed as a result of future regulatory proceedings. Such proceedings can be commenced through a filing by the utility or on the regulator's own initiative.

Regulated controllable costs

Total operating costs under IFRS less depreciation and certain regulatory costs where, under our regulatory agreements, mechanisms are in place to recover such costs in current or future periods.

Regulatory asset value (RAV)

The value ascribed by Ofgem to the capital employed in the relevant licensed business. It is an estimate of the initial market value of the regulated asset base at privatisation, plus subsequent allowed additions at historical cost, less the deduction of annual regulatory depreciation. Deductions are also made to reflect the value realised from the disposal of certain assets that formed part of the regulatory asset base. It is also indexed to the RPI to allow for the effects of inflation.

Regulatory IOUs

Net under/over-recoveries of revenue from output-related allowance changes, the totex incentive mechanism, legacy price control cost true-up and differences between allowed and collected revenues.

Retained cash flow (RCF)

A measure of the cash flows of the Group used by the credit rating agencies. It is calculated as funds from operations less dividends paid and costs of repurchasing scrip shares.

Revenue decoupling

Revenue decoupling is the term given to the elimination of the dependency of a utility's revenue on the volume of gas or electricity transported. The purpose of decoupling is to encourage energy-efficiency programmes by eliminating the disincentive a utility otherwise has to such programmes.

RIIO

Revenue = Incentives + Innovation + Outputs, the regulatory framework for energy networks issued by Ofgem.

RIIO-T1

The regulatory framework for transmission networks that was implemented in the eight-year price controls started on 1 April 2013.

RIIO-T2

The regulatory framework for transmission networks issued by Ofgem which started on 1 April 2021.

RIIO-ED1

The regulatory framework for electricity distribution networks issued by Ofgem which started on 1 April 2014.

RIIO-ED2

The regulatory framework for electricity distribution networks expected to be issued by Ofgem to start on 1 April 2023.

Definitions and glossary of terms continued

RIPUC

The Rhode Island Public Utilities Commission.

RPI

The UK retail price index as published by the Office for National Statistics.

S

Scope 1 greenhouse gas emissions

Scope 1 emissions are direct greenhouse gas emissions that occur from sources that are owned or controlled by the Company. Examples include emissions from combustion in owned or controlled boilers, furnaces, vehicles, etc.

Scope 2 greenhouse gas emissions

Scope 2 emissions are greenhouse gas emissions from the generation of purchased electricity consumed by the Company. Purchased electricity is defined as electricity, heat, steam or cooling that is purchased or otherwise brought into the organisational boundary of the Company. Scope 2 emissions physically occur at the facility where electricity is generated.

Scope 3 greenhouse gas emissions

Scope 3 emissions are indirect greenhouse gas emissions as a consequence of the operations of the Company, but are not owned or controlled by the Company, such as emissions from third-party logistics providers, waste management suppliers, travel suppliers, employee commuting, and combustion of sold gas by customers.

SEC

The US Securities and Exchange Commission, the financial regulator for companies with registered securities in the US, including National Grid and certain of its subsidiaries.

SF₆

Sulphur hexafluoride is an inorganic, colourless, odourless and non-flammable greenhouse gas. SF₆ is used in the electricity industry as a gaseous dielectric medium for high-voltage circuit breakers, switchgear and other electrical equipment. The Kyoto Protocol estimated that the global warming potential over 100 years of SF₆ is 23,900 times more potent than that of CO₂.

Share premium

The difference between the amount shares are issued for and the nominal value of those shares.

Subsidiary

A company or other entity that is controlled by National Grid.

Swaption

A swaption gives the buyer, in exchange for an option premium, the right, but not the obligation, to enter into an interest-rate swap at some specified date in the future. The terms of the swap are specified on the trade date of the swaption.

T

Task Force on Climate-related Financial Disclosures (TCFD)

A body, established in 2015 comprising 31 members from across the G20, whose role is to develop recommendations for more informed investment and enable stakeholders to better

understand the concentrations of carbon-related assets in the financial sector and the financial system's exposures to climate-related risk.

Tax Convention

The income tax convention between the US and the UK.

Taxes borne

Those taxes that represent a cost to the Company and are reflected in our results.

Taxes collected

Those taxes that are generated by our operations but do not affect our results. We generate the commercial activity giving rise to these taxes and then collect and administer them on behalf of tax authorities.

TCFD recommendations or recommended disclosures

The 11 recommended disclosures set out in the June 2017 TCFD report entitled 'Recommendations of the Task Force on Climate-related Financial Disclosures'.

Tonne

A unit of mass equal to 1,000 kilogrammes, equivalent to approximately 2,205 pounds.

Tonnes carbon dioxide equivalent (tCO₂e)

A measure of greenhouse gas emissions in terms of the equivalent amount of carbon dioxide.

Total Societal Impact (TSI)

TSI is a methodology that attempts to calculate the total benefit to society from a company's products, services, operations, core capabilities and activities.

Totex

Total expenditure, comprising capital and operating expenditure.

Treasury shares

Shares that have been repurchased but not cancelled. These shares can then be allotted to meet obligations under the Company's employee share schemes.

U

UK

The United Kingdom, comprising England, Wales, Scotland and Northern Ireland.

UK Corporate Governance Code (the 'Code')

Guidance, issued by the Financial Reporting Council in 2018, on how companies should be governed, applicable to UK listed companies, including National Grid, in respect of reporting periods starting on or after 1 January 2019.

UK GAAP

Generally accepted accounting practices in the UK. These differ from IFRS and from US GAAP.

Underlying EPS

Underlying results for the year attributable to equity shareholders of the Company allocated to each ordinary share.

Underlying results

The financial results of the Company, adjusted to exclude the impact of exceptional items and remeasurements that are treated as discrete transactions under IFRS and can accordingly be classified as such, and to take account of

volumetric and other revenue timing differences arising due to the in-year difference between allowed and collected revenues as well as major storm costs (where these are above \$100 million threshold in a given year).

US

The United States of America, its territories and possessions; any state of the United States and the District of Columbia.

US GAAP

Generally accepted accounting principles in the US. These differ from IFRS and from UK GAAP.

US state regulators (state utility commissions)

In the US, public utilities' retail transactions are regulated by state utility commissions, including the New York Public Service Commission (NYPSC), the Massachusetts Department of Public Utilities (MADPU) and the Rhode Island Public Utilities Commission (RIPUC).

V

Value Added

Value Added is a measure to capture the value created through investment attributable to equity holders, being the change in total regulated and non-regulated assets including goodwill (both at constant currency) plus the cash dividend paid in the year plus share repurchase costs less the growth in net debt (at constant currency). This is then presented on an absolute and a per share basis.

Value Growth

Value Growth is the Value Added, adjusted to normalise for a 3% long-run RPI inflation rate, expressed as a proportion of Group equity. See page 279.

W

WPD

National Grid's UK electricity distribution business, comprising Western Power Distribution Holding Company Limited and its subsidiaries. The group is the UK's largest electricity distribution business and includes four distribution network operators.

WPD Acquisition

The acquisition by National Grid of WPD, which completed on 14 June 2021.

Want more information or help?

Equiniti

For queries about ordinary shares:



0800 169 7775

This is a Freephone number from landlines within the UK; mobile costs may vary. Lines are open 8.30am to 5.30pm, Monday to Friday, excluding public holidays. If calling from outside the UK: **+44 (0) 800 169 7775**. Calls from outside the UK will be charged at the applicable international rate.



Visit help.shareview.co.uk for information regarding your shareholding (from here you will also be able to email a query securely).



National Grid Share Register
Equiniti
Aspect House
Spencer Road, Lancing
West Sussex BN99 6DA

The Bank of New York Mellon

For queries about American Depositary Shares:



1-800-466-7215

If calling from outside the US:
+1-201-680-6825



adrbnymellon.com

Email:
shrrelations@cpushareownerservices.com



BNY Mellon – ADR
PO Box 505000
Louisville, KY 40233-5000

Further information about National Grid, including share price and interactive tools, can be found on our website:

nationalgrid.com/investors

Beware of share fraud

Investment scams are often sophisticated and difficult to spot. Shareholders are advised to be wary of any unsolicited advice or offers, whether over the telephone, through the post or by email. If you receive any unsolicited communication, please check that the company or person contacting you is properly authorised by the Financial Conduct Authority (FCA) before getting involved. Be ScamSmart and visit fca.org.uk/scamsmart. You can report calls from unauthorised firms to the FCA by calling **0800 111 6768**.

Financial calendar

The following dates have been announced or are indicative:

19 May 2022	2021/22 full-year results
1 June 2022	Ordinary shares go ex-dividend for 2021/22 final dividend
3 June 2022	ADRs go ex-dividend for 2021/22 final dividend
6 June 2022	Record date for 2021/22 final dividend
10 June 2022	Scrip reference price announced
11 July 2022	2022 AGM
20 July 2022 (5.00pm London time)	Scrip election date
17 August 2022	2021/22 final dividend paid to qualifying shareholders
10 November 2022	2022/23 half-year results
23 November 2022	ADRs go ex-dividend for 2022/23 interim dividend
24 November 2022	Ordinary shares go ex-dividend for 2022/23 interim dividend
25 November 2022	Record date for 2022/23 interim dividend
1 December 2022	Scrip reference price announced
12 December 2022 (5.00pm London time)	Scrip election date for 2022/23 interim dividend
11 January 2023	2022/23 interim dividend paid to qualifying shareholders

Dividends

The Directors are recommending a final dividend of 33.76 pence per ordinary share (\$2.0929 per ADS) to be paid on 17 August 2022 to shareholders on the register as at 6 June 2022. Further details on dividend payments can be found on page 49. If you live outside the UK, you may be able to request that your dividend payments are converted into your local currency.

Under the Deposit agreement, a fee of up to \$0.05 per ADS can be charged for any cash distribution made to ADS holders, including cash dividends. ADS holders who receive cash in relation to the 2021/22 final dividend will be charged a fee of \$0.02 per ADS by the Depository prior to the distribution of the cash dividend.

From August 2022, all National Grid dividends will be paid directly into bank or building society accounts for ordinary shareholders. Please make sure you have completed and returned a bank mandate form. Benefits include the following:

- Your dividend reaches your account on the payment day.
- It helps the environment by saving over 500,000 A4 pieces of paper annually.
- It is more secure – cheques sometimes get lost in the post.
- No more trips to the bank.

Elect to receive your dividends as additional shares: Join our scrip dividend scheme; no stamp duty or commission to pay.

Electronic communications

Please register at shareview.co.uk.

It only takes a few minutes to register – just have your 11-digit Shareholder Reference Number to hand. You will be sent an Activation Code to complete registration.

Once you have registered, you can elect to receive your shareholder communications electronically.

Registered office

National Grid plc was incorporated on 11 July 2000. The Company is registered in England and Wales No. 4031152, with its registered office at 1–3 Strand, London WC2N 5EH.

Share dealing

Postal share dealing: Equiniti offers our European Economic Area resident shareholders a share dealing service by post. This service is available to private shareholders resident within the European Economic Area, the Channel Islands or the Isle of Man. If you hold your shares in CREST, you are not eligible to use this service. For more information and to obtain a form, please visit shareview.co.uk or call Equiniti on **0800 169 7775**.

Internet and telephone share dealing:

Equiniti also offers telephone and online share dealing at live prices. For full details, together with terms and conditions, please visit shareview.co.uk. You can call Equiniti on **0345 603 7037** for further details, or to arrange a trade. Lines are open Monday to Friday, 8.00am to 4.30pm for dealing, and until 6.00pm for enquiries.

ShareGift: If you only have a small number of shares that would cost more for you to sell than they are worth, you may wish to consider donating them to ShareGift. ShareGift is a registered charity (No. 1052686) which specialises in accepting such shares as donations. For more information, visit sharegift.org or contact Equiniti.

Individual Savings Accounts (ISAs): ISAs for National Grid shares are available from Equiniti. For more information, call Equiniti on **0345 0700 720** or visit eqi.co.uk.

Cautionary statement

This document comprises the Annual Report and Accounts for the year ended 31 March 2022 for National Grid plc and its subsidiaries.

It contains the Directors' Report and Financial Statements, together with the independent auditor's report thereon, as required by the Companies Act 2006. The Directors' Report, comprising pages 1 – 131 and 242 – 288 has been drawn up in accordance with the requirements of English law, and liability in respect thereof is also governed by English law. In particular, the liability of the Directors for these reports is solely to National Grid.

This document contains certain statements that are neither reported financial results nor other historical information. These statements are forward-looking statements within the meaning of section 27A of the Securities Act of 1933, as amended, and section 21E of the Securities Exchange Act of 1934, as amended. These statements include information with respect to our financial condition, our results of operations and businesses, strategy, plans and objectives. Words such as 'aims', 'anticipates', 'expects', 'should', 'intends', 'plans', 'believes', 'outlook', 'seeks', 'estimates', 'targets', 'may', 'will', 'continue', 'project' and similar expressions, as well as statements in the future tense, identify forward-looking statements. This document also references climate-related targets and climate-related risks which differ from conventional financial risks in that they are complex, novel and tend to involve projection over long-term scenarios which are subject to significant uncertainty and change.

These forward-looking statements and targets are not guarantees of our future performance and are subject to assumptions, risks and uncertainties that could cause actual future results to differ materially from those expressed in or implied by such forward-looking statements and targets. Many of these assumptions, risks and uncertainties relate to factors that are beyond our ability to control or estimate

precisely, such as changes in laws or regulations, including any arising as a result of the United Kingdom's exit from the European Union; announcements from and decisions by governmental bodies or regulators, including those relating to the RIIO-T2 and RIIO-ED2 price controls and proposals for the future of system operation in the United Kingdom; the timing of construction and delivery by third parties of new generation projects requiring connection; breaches of, or changes in, environmental, climate change, and health and safety laws or regulations, including breaches or other incidents arising from the potentially harmful nature of our activities; network failure or interruption, the inability to carry out critical non-network operations, and damage to infrastructure, due to adverse weather conditions, including the impact of major storms as well as the results of climate change, due to counterparties being unable to deliver physical commodities, or due to the failure of or unauthorised access to or deliberate breaches of our IT systems and supporting technology; failure to adequately forecast and respond to disruptions in energy supply; performance against regulatory targets and standards and against our peers with the aim of delivering stakeholder expectations regarding costs and efficiency savings, as well as against targets and standards designed to deliver net zero; and customers and counterparties (including financial institutions) failing to perform their obligations to the Company. Other factors that could cause actual results to differ materially from those described in this document include fluctuations in exchange rates, interest rates and commodity price indices; restrictions and conditions (including filing requirements) in our borrowing and debt arrangements, funding costs and access to financing; regulatory requirements for us to maintain financial resources in certain parts of our business and restrictions on some subsidiaries' transactions, such as paying dividends, lending or levying charges; the delayed timing of recoveries and payments in our regulated businesses and whether aspects

of our activities are contestable; the funding requirements and performance of our pension schemes and other post-retirement benefit schemes; the failure to attract, develop and retain employees with the necessary competencies, including leadership and business capabilities, and any significant disputes arising with our employees or breaches of laws or regulations by our employees; the failure to respond to market developments, including competition for onshore transmission; the threats and opportunities presented by emerging technology; the failure by the Company to respond to, or meet its own commitments as a leader in relation to, climate change development activities relating to energy transition, including the integration of distributed energy resources; and the need to grow our business to deliver our strategy, as well as incorrect or unforeseen assumptions or conclusions (including unanticipated costs and liabilities) relating to business development activity, including the integration of WPD, the sale of the Company's Rhode Island gas and electricity business and the sale of a 60% stake in the Group's UK Gas Transmission business, and joint ventures.

For further details regarding these and other assumptions, risks and uncertainties that may affect National Grid, please read the Strategic Report and the risk factors on pages 253 – 256 of this document. In addition, new factors emerge from time to time and we cannot assess the potential impact of any such factor on our activities or the extent to which any factor, or combination of factors, may cause actual future results to differ materially from those contained in any forward-looking statement. Except as may be required by law or regulation, the Company undertakes no obligation to update any of its forward-looking statements, which speak only as of the date of this document.

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The paper used in this report has been Carbon Balanced with the World Land Trust, an international conservation charity, which offsets carbon emissions through the purchase and preservation of high conservation value land.

Through protecting standing forests, under threat of clearance, carbon is locked in that would otherwise be released. These protected forests are then able to continue absorbing carbon from the atmosphere, referred to as REDD (Reduced Emissions from Deforestation and forest Degradation). This is now recognised as one of the most cost-effective and swiftest

ways to arrest the rise in atmospheric CO₂ and global warming effects. Additional to the carbon benefits is the flora and fauna this land preserves, including a number of species identified as at risk of extinction on the IUCN Red List of Threatened Species.

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