

National Grid

Boston Gas Company

INVESTIGATION AS TO THE  
PROPRIETY OF PROPOSED  
TARIFF CHANGES

Filing Requirement Materials

Book 3 of 3, Part 2

November 13, 2020

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Utilities  
D.P.U. 20-120

Submitted by:

nationalgrid

# 3.

## Financial Statements

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## 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 Financial Reporting Standards (IFRSs) as adopted by the European Union and Article 4 of the IAS Regulation and 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 IFRSs 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 judgments 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 66 – 67, 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 IFRSs as issued by the IASB and IFRS as adopted by the European Union 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 – 107 and 216 – 252, was approved by the Board and signed on its behalf.

### Strategic Report

The Strategic Report, comprising pages 1 – 62, was approved by the Board and signed on its behalf.

By order of the Board

**Alison Kay**  
Group General Counsel  
& Company Secretary

17 June 2020

Company number: 4031152

# 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 2020 and of the Group's profit for the year then ended;
- the Group financial statements have been properly prepared in accordance with International Financial Reporting Standards (IFRSs) as adopted by the European Union and IFRSs 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 and, as regards the Group financial statements, Article 4 of the IAS Regulation.

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 39 to the consolidated financial statements.

Parent Company:

- the parent company accounting policies;
- the parent company balance sheet;
- the parent company statement of changes in equity; and
- the related notes 1 to 10 to the parent company financial statements.

The financial reporting framework that has been applied in the preparation of the Group financial statements is applicable law, IFRSs as adopted by the European Union and IFRSs 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 Accounting Standards, including FRS 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 4 to the financial statements. We confirm that the non-audit services prohibited by the FRC's Ethical Standard were not provided 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.

### 3. Summary of our audit approach

<b>Key audit matters</b>	<p>The key audit matters that we identified in the current year were:</p> <ul style="list-style-type: none"> <li>Impact of COVID-19;</li> <li>Impact of climate change on property, plant and equipment;</li> <li>Environmental provisions;</li> <li>Classification of exceptional items;</li> <li>Net pension obligations;</li> <li>Treasury derivative transactions; and</li> <li>IT user access controls.</li> </ul>
<b>Changes in our key audit matters since the prior year</b>	<p>These key audit matters are consistent with those we identified in the prior year except that:</p> <ul style="list-style-type: none"> <li>As a consequence of the COVID-19 outbreak, which has severely affected the UK and US economies, there are financial reporting impacts particularly with respect to key judgments, estimates and disclosures within the financial statements. In addition, there are potential financial control impacts as a consequence of remote working. This caused us to perform an updated audit risk assessment. Accordingly we have identified this as a key audit matter; and</li> <li>The impact of climate change on property, plant and equipment has been identified as a new key audit matter due to the increase in shareholder focus and legislation enacted during the year in relation to "net-zero" carbon by 2050 commitments by the UK government and certain US states (specifically New York and Massachusetts) in which the Group operates. This has a potentially significant impact on the Group's gas businesses and accordingly the estimated useful lives of its assets.</li> </ul>
<b>Materiality</b>	<p>The materiality that we used for the Group financial statements was £120 million, which represents 5.1% of adjusted profit before tax (profit before tax excluding the impact of reported exceptional items and remeasurements) and 6.8% of statutory profit before tax.</p>
<b>Scoping</b>	<p>Our scope covered six components of the Group in addition to procedures performed at the Group level. Of these, three were subjected to a full-scope audit whilst the remaining three were subject to specific procedures on certain account balances.</p> <p>Our scoping covered 99% of the Group's revenue; 97% of the Group's gross assets; and 99% of the Group's gross liabilities.</p>

## 4. Conclusions relating to going concern, principal risks and viability statement

### 4.1. Going concern

We have reviewed the directors' statement in note 1A to the financial statements about whether they considered it appropriate to adopt the going concern basis of accounting in preparing them and their identification of any material uncertainties to the Group's and company's ability to continue to operate as a going concern for a period of at least twelve months from the date of approval of the financial statements.

We considered as part of our risk assessment the nature of the Group, its business model and related risks including where relevant the impact of the COVID-19 pandemic and Brexit, the requirements of the applicable financial reporting framework and the system of internal control. We evaluated the directors' assessment of the Group's ability to continue as a going concern, including challenging the underlying data and key assumptions used to make the assessment, and evaluated the directors' plans for future actions in relation to their going concern assessment.

We are required to state whether we have anything material to add or draw attention to in relation to the directors' statement required by Listing Rule 9.8.6R(3) and report if the statement is materially inconsistent with our knowledge obtained in the audit.

**Going concern is the basis of preparation of the financial statements that assumes an entity will remain in operation for a period of at least twelve months from the date of approval of the financial statements.**

We confirm that we have nothing material to report, add or draw attention to in respect of these matters.

### 4.2. Principal risks and viability statement

Based solely on reading the directors' statements and considering whether they were consistent with the knowledge we obtained in the course of the audit, including the knowledge obtained in the evaluation of the directors' assessment of the Group's and the company's ability to continue as a going concern, we are required to state whether we have anything material to add or draw attention to in relation to:

- the disclosures on pages 23 – 25 that describe the principal risks, procedures to identify emerging risks, and an explanation of how these are being managed or mitigated;
- the directors' confirmation on page 26 that they have carried out a robust assessment of the principal and emerging risks facing the Group, including those that would threaten its business model, future performance, solvency or liquidity; or
- the directors' explanation on page 26 as to how they have assessed the prospects of the Group, over what period they have done so and why they consider that period to be appropriate, and their statement as to whether they have a reasonable expectation that the Group will be able to continue in operation and meet its liabilities as they fall due over the period of their assessment, including any related disclosures drawing attention to any necessary qualifications or assumptions.

We are also required to report whether the directors' statement relating to the prospects of the Group required by Listing Rule 9.8.6R(3) is materially inconsistent with our knowledge obtained in the audit.

**Viability means the ability of the Group to continue over the time horizon considered appropriate by the directors, which for National Grid is 5 years.**

We confirm that we have nothing material to report, add or draw attention to in respect of these matters.

## 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.

Throughout the course of our audit we identify risks of material misstatement ('risks'). We consider both the likelihood of a risk and the potential magnitude of a misstatement in making the assessment. Certain risks are classified as 'significant' or 'higher' depending on their severity. The category of the risk determines the level of evidence we seek in providing assurance that the associated financial statement item is not materially misstated.

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. Impact of COVID-19

Key audit matter description	Account balances: Trade and other receivables. Refer to note 19 to the financial statements. Pensions and other post-retirement benefits. Refer to note 25 to the financial statements.
	<p><b>The COVID-19 pandemic has had a significant impact on the UK and US economies with consequences to the judgements and estimates made by the Group, principally in relation to the recoverability of US customer receivables and the valuation of certain pension assets. Refer to note 1E to the financial statements and the Audit Committee's discussion on pages 76 – 78.</b></p> <p>In March 2020 the COVID-19 pandemic resulted in the UK government and several US states in which the Group operates imposing lockdowns of their populations in order to stop the spread of the disease. This had a direct and severe impact on those economies as consumer spending decreased and unemployment rose at unprecedented rates, in turn severely impacting global demand and world financial markets. This has impacted the results of the Group for the 2020 financial year and is expected to continue to impact the Group for the remainder of FY21.</p> <p>Management reassessed their controls framework, which encompassed a review of the ability to operate existing controls remotely and consideration of whether existing controls were suitable for addressing areas of new or increased risk. As a result of this assessment, a new COVID-19 entity-level control was implemented to assess the completeness of accounting considerations across the Group. Further, whilst there could be a potential impact upon a number of financial statement line items, management's assessment determined that the primary risks that arose from the COVID-19 pandemic related to the valuation of:</p> <ul style="list-style-type: none"> <li>• provisions for bad and doubtful debts in the US due to the increased uncertainty over customers' ability to settle amounts when they fall due; and</li> <li>• unquoted pension assets, particularly certain assets in the property and alternative investment portfolios which are subject to increased valuation uncertainties.</li> </ul> <p>In calculating bad and doubtful debts, the key judgement relates to the requirement to incorporate 'expected credit losses' into the provision. This requires management to make forward-looking estimates of the expected level of losses which will be incurred on any outstanding trade receivables. In the US, unlike in the UK, the Group has retail customers. The regulatory moratorium in the US requiring the suspension of certain debt collection and customer termination activities has increased the level of estimation uncertainty related to the bad debt calculation in respect of US trade receivables. Management has considered relevant forward-looking macroeconomic data in the US, as well as the effect on incurred losses experienced in the aftermath of the financial crisis of 2008 and Superstorm Sandy in 2012 to inform their estimation. Accordingly, we have identified this as an area of 'higher' audit risk.</p> <p>The key judgements related to the valuation of certain unquoted pension assets are discussed in the 'net pension obligations' key audit matter.</p>



# Independent auditor's report to the members of National Grid plc continued

## 5. Key audit matters continued

### 5.1. Impact of COVID-19 continued

**Key audit matter description continued** A risk was also identified in relation to the impact of the pandemic on the Group's cash flows and liquidity and accordingly its going concern analysis. Management performed a detailed analysis of the potential impact of the COVID-19 pandemic on revenue, profit and cash flows, in particular the impact on US customer collections. Possible cost mitigations were also considered. This detailed analysis also included consideration of a number of downside scenarios as to the duration of the lockdown measures, and concluded that no reasonably possible downside scenario existed wherein the Group would be unable to continue as a going concern.

Related disclosure of management's and the Board's assessment of the ability to continue as a going concern, inclusive of the impact of the pandemic as a principal risk has been made in the Annual Report on page 25, and has been included as a consideration in the viability statement on page 26.

**How the scope of our audit responded to the key audit matter** We performed controls testing at year end on areas of heightened risk, including the incremental COVID-19 specific control, and assessed whether management appropriately considered the related impact on existing controls.

Further, we held discussions within the Group and component engagement teams, with management, with our internal treasury, pensions and tax specialists and within the wider Deloitte network to identify the areas of risk to the financial statements as a result of the wider impacts of the pandemic. We used the outcome of these discussions to update our audit risk assessment and challenge management's impact assessment. Our responses in respect of specific areas identified as risks related to COVID-19 are outlined below. For these areas we also reviewed management's disclosures in relation to the key judgements and estimates made in assessing the impact of COVID-19, inclusive of sensitivity disclosures related to the areas of estimation uncertainty.

**Provisions for bad and doubtful debts in the US:** In challenging management's assumptions related to the impact of the COVID-19 pandemic on the provision for bad and doubtful debts on US retail customers, we considered the extent to which the 2008 financial crisis and impact of Superstorm Sandy were reasonable data points to use in informing those estimates. We challenged management's judgement in respect of the point in the range of calculated possible outcomes which management determined to be their best estimate.

**Valuation of unquoted pension assets:** We have described the procedures performed on the valuation of these pension assets in our 'net pension obligation' key audit matter.

**Liquidity and ability to continue as a going concern:** We have assessed the going concern model prepared by management, which considered the impact of COVID-19. We assessed the underlying assumptions, inclusive of mitigating cost actions being taken based on our understanding of the business and knowledge of the industry in which the Group operates. Where impacts were significant, our component audit teams were also involved in a more granular challenge of local management's forecasts. Further, we assessed management's evaluation of liquidity and loan covenant compliance over the period of assessment to confirm no breaches are anticipated over this timeframe.

**Key observations** Our testing confirmed the incremental COVID-19 specific control operated effectively.

We concluded that management's judgements and estimates made in determining the incremental level of expected credit losses as a consequence of the COVID-19 pandemic are reasonable.

Our conclusion on the valuation of certain pension assets is set out in our 'net pension obligation' key audit matter.

Our conclusion on going concern is set out in the 'Conclusions relating to going concern, principal risks and viability statement' section of this report.

We concluded that management's disclosures included in note 1E to the financial statements in respect of the key judgements and areas of estimation uncertainty are appropriate.

### 5.2. The impact of climate change on property, plant and equipment

**Key audit matter description** **Account balance: Property, plant and equipment. Refer to notes 1E and 13 to the financial statements and the Audit Committee's discussion on pages 76 – 78.**

The UK government and certain of the 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 direct 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 assets used to facilitate gas transmission services in the UK and gas distribution services in the US in the period approaching 2050 and beyond. The remaining useful economic life of the Group's gas assets is up to 50 years in the UK and 80 in the US, extending well beyond the 2050 "net zero" commitment date. As described in note 13 to the financial statements, the impact of changing the useful economic lives of all of the Group's gas assets, such that they would be fully depreciated by 2050, would be an increase in the annual depreciation expense of £188 million, and such that they would be fully depreciated by 2060, would be an increase in the annual depreciation expense of £79 million.

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, we identified a 'higher' risk related to the financial statement impact of those commitments, specifically pinpointed to management's judgement in determining the useful lives of gas assets in the context of the net zero commitments.

As described in note 13 to the financial statements and in the Audit Committee Report (page 78), management performed a detailed assessment of the potential uses for the Group's gas assets as part of their consideration around whether developments in the UK and US towards binding carbon reduction targets should trigger any changes to National Grid's estimates, judgements or disclosures, especially regarding gas asset lives. Management's assessment included an overview of the legislative changes in the UK and US, and an evaluation of the possible future use of National Grid's networks in a net zero energy system.

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 life identified through depreciation studies for each asset and 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. Management concluded it is probable that there will be a role for its US gas networks post 2050 under a range of possible scenarios, and there is nothing at present to suggest that asset lives should be shortened at this point.

In the UK, National Grid Gas Transmission (NGGT) owns and operates the UK gas transmission network (NTS). Pipelines represent the vast majority of the value that will be undepreciated by 2050. Having analysed the potential decarbonisation pathways, management has identified numerous potential uses for the Group's UK gas pipeline assets in a net zero energy system including for the continued transmission of natural gas as a back-up fuel or in order for blue hydrogen to be produced alongside carbon capture and storage; and the transmission of hydrogen or other low or zero carbon gases.

## 5.2. The impact of climate change on property, plant and equipment continued

<b>Key audit matter description continued</b>	<p>Management concluded that their best estimate for the useful economic life of the National Transmission System (NTS) pipeline assets in the UK is 50 years (or until 2070) as this best represents when the assets will continue to support business operations in the UK.</p> <p>Management and the Audit Committee determined that in light of the evolving legislative developments and increasing investor attention, disclosure of a key judgement in relation to the potential future use of the Group's gas assets post-2050 and disclosure of the gas asset lives as a key estimate (note 1E to the financial statements), with appropriate sensitivity analysis (note 13 to the financial statements) were appropriate.</p>
<b>How the scope of our audit responded to the key audit matter</b>	<p>We tested management's internal control over the accounting for and disclosure of the potential impacts associated with the energy transition and climate change.</p> <p>We challenged management's judgement that the useful lives of the Group's gas assets extend beyond 2050 in light of the different goals, commitments and legislation relating to net zero in the UK and the US states in which the Group operates by:</p> <ul style="list-style-type: none"> <li>• reviewing potential strategic pathways to achieve net zero targets;</li> <li>• obtaining and reviewing government plans in the US and UK for achieving net zero which we compared to the potential strategic pathways;</li> <li>• reviewing information from the Group's regulators, including price controls in the UK and rate cases in the US, to consider whether they presented any contradictory evidence;</li> <li>• performing an assessment of the likelihood of occurrence of alternative scenarios for achieving net zero targets;</li> <li>• considering the potential for re-purposing the Group's gas networks for alternative uses, and in particular for transporting hydrogen; and</li> <li>• reviewing a number of external reports including: <i>Hydrogen in a low-carbon economy and Net Zero – Technical report</i>, produced by the Committee on Climate Change; <i>the UK's draft integrated National Energy and Climate Plan (NECP)</i> produced by the Department for Business, Energy &amp; Industrial Strategy; and searching for contradictory evidence in respect of management's judgements.</li> </ul> <p>We utilised our sustainability specialists to review management's key assumptions and to challenge the viability of some of the technological advances presented within the strategic pathways. We also consulted with Deloitte specialists in other countries regarding the suitability of existing gas infrastructure for transporting hydrogen.</p> <p>We also reviewed 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 carrying value of the useful economic lives of the Group's gas assets.</p>
<b>Key observations</b>	<p>Our testing confirmed that the relevant controls over management's assessment of the impact of the energy transition and climate change operated effectively.</p> <p>We observe that whilst some indicators do exist suggesting that the useful economic lives of the Group's gas assets may be limited to 2050, these are mitigated by other statements by governments and advisory bodies which suggest gas, and therefore gas transmission and distribution assets, will continue to have a role beyond 2050. Furthermore, the emergence of a substantial hydrogen infrastructure could introduce a longer term role for National Grid gas assets past 2050, if technological developments allow the utilisation of existing assets in this infrastructure.</p> <p>Whilst the targets, goals and ambitions in respect of net zero have now been formalised in legislation in the jurisdictions in which the Group operates, there is widespread recognition that work needs to be done to define the possible future decarbonisation pathways. 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 that 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.</p> <p>In the UK, we note that there is no alignment between the useful lives of the Group's gas assets for IFRS depreciation purposes, and the period of recovery of the regulatory asset value under regulation. Nevertheless, we conclude that it is reasonable to assume that there will be a valuable use for these assets until 2070.</p> <p>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.</p> <p>We are satisfied that management's other disclosures in the Annual Report 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.</p>

## 5.3. Environmental provisions

<b>Key audit matter description</b>	<p><b>Account balance: Provisions. Refer to notes 1E, 26 and 35 to the financial statements and the Audit Committee's discussion on pages 76 – 78.</b></p> <p>At 31 March 2020 the Group has £2,071 million (2019: £1,639 million) of environmental provisions, of which £175 million (2019: £189 million) are in the UK and £1,896 million (2019: £1,450 million) in the US.</p> <p>The Group's environmental provisions relate to a number of sites owned and managed by the Group together with certain US sites which are no longer owned. In the US the provision is in respect of 257 sites which vary in the level of clean-up required. Of the total US environmental provisions of £1,896 million, more than half relates to three former sites which were identified by the Environmental Protection Agency (EPA) as sites of significant contamination (Superfund sites). The EPA has the authority to force the parties responsible for the contamination of these sites either to perform clean-ups or reimburse the government for work led by the EPA.</p> <p>There are a number of estimation uncertainties across all of the sites. We identified a 'higher' risk in relation to certain sites which are complicated because of their size, the number of parties involved and/or the stage of remediation the project is at. The uncertainties that exist in relation to these sites include: the impact of regulation; the form, timing, extent and associated cost of remediation needed; the methods and technologies used in remediation; the allocation of responsibility; and the discount rates applied to the forecast cash flows.</p> <p>There were significant increases in the provisions recorded for two US Superfund sites in the year and a small reduction at the third. We determined that the estimation of the undiscounted cash outflows specific to these sites was the most significant and sensitive to a change in reasonably possible outcomes.</p> <p>In respect of the US Superfund site with the most significant increase in provision, there were two reasons for management's reassessment of the estimated cash outflows. An updated design report was received in the year which indicated that the work required to remediate the site was more extensive than had previously been expected, resulting in a higher estimated total cost. In addition, following an EPA order management increased its estimate of the share of the costs the Group would bear amongst the Potentially Responsible Parties (PRPs).</p>
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# Independent auditor's report to the members of National Grid plc continued

## 5. Key audit matters continued

### 5.3. Environmental provisions continued

<b>Key audit matter description continued</b>	<p>Regarding the other Superfund site with a significantly increased provision, an updated survey clarified the extent of remediation work which needs to be performed, leading to an increase in the Group's share of the expected costs.</p> <p>Management are required to make judgements in selecting an appropriate discount rate which reflects changes in UK gilt and US treasury rates as current market assessments of the time value of money. The Group decreased the real discount rates applied to the undiscounted cash flows from 1% in the prior year to 0.5% for both the UK and the US provisions.</p>
<b>How the scope of our audit responded to the key audit matter</b>	<p>We tested the controls over the compilation of forecast cash flows and the determination of the discount rate.</p> <p>We performed detailed risk assessments to categorise US sites based on size and the level of estimation uncertainty, determined by the stage of the remediation and the extent of work required. In respect of US sites other than the Superfund sites, we worked with our internal environmental specialists to assess cash flow estimates across a sample of sites. In order to assess the completeness of the year end liabilities we also completed public domain searches on Federal databases across all Group subsidiaries to determine whether any relevant costs or applicable sites were omitted.</p> <p>With respect to the US Superfund sites, we agreed underlying cost assumptions to third-party build information, approved engineering design reports and other benchmarks and utilised our internal environmental provision specialists to assist us in evaluating managements' key assumptions. We also considered information obtained from the Group's legal advisors and relevant EPA correspondence in our evaluation of the recorded provisions.</p> <p>We performed additional procedures on the site with the most significant increase in provision. Specifically relating to the judgement over the estimated allocation of total remediation costs, we made enquiries of the Group's internal legal counsel and obtained analysis directly from external legal counsel. With the assistance of our internal environmental specialists, we used this additional information to determine independently a range of potential outcomes and allocations of remediation costs at the site, and used this to assess management's estimate.</p> <p>We challenged the methodology that management has adopted for calculating the discount rate with the support of our internal valuation specialists. In addition, we independently calculated an appropriate discount rate range and used this to assess management's rate.</p>
<b>Key observations</b>	<p>Our testing confirmed that the relevant controls over the compilation of forecast cash flows and the determination of the discount rate were operating effectively.</p> <p>We found the total cost assumptions associated with all of the tested sites to be reasonable, including the US Superfund sites. In respect of the US Superfund sites we are satisfied that management's estimate of the proportion of costs expected to be allocated to the Group are within our independently calculated range.</p> <p>We consider the decrease in real discount rates from 1% to 0.5% applied in the UK and US to be reasonable based on the movement in gilts and treasury yields.</p> <p>We noted that the assumptions and judgments that are required to formulate the provisions mean that the range of possible outcomes is broad. In respect of the Superfund site with the most significant increase in provision, as a consequence of the developments in the year, the level of uncertainty regarding the Group's share of final costs has reduced. However, there continues to be a risk of further increases and we note that the remediation at the other two Superfund sites is less advanced and accordingly at risk of future increases.</p> <p>We are satisfied with the Group's disclosures of environmental provisions in light of the underlying assumptions and accounting judgments made.</p>

### 5.4. Classification of exceptional items

<b>Key audit matter description</b>	<p><b>Account balance: Operating costs (included in the exceptional items and remeasurements column). Refer to notes 1E and 5 to the financial statements and the Audit Committee's discussion on pages 76 – 78.</b></p> <p>The Consolidated Income Statement separately identifies exceptional items and certain remeasurements (the 'middle column'). This results in focus being placed on what management refer to as 'business performance' or 'adjusted profit'.</p> <p>Adjusted profit is a critical measure for stakeholders and is one of the principal measures which the Board uses to review the performance of the Group's segments. In addition, underlying profit, which is derived from adjusted profit, is another widely used measure and is used in determining aspects of executive remuneration. Accordingly, the classification of items in the middle column is important for users of the financial statements. Consistency in the identification and presentation of these items is also important to ensure comparability of year-on-year reporting in the Annual Report and Accounts.</p> <p>There is judgement in the classification and accuracy of the amounts determined to be exceptional in accordance the Group's exceptional items framework and any amounts so classified impact the adjusted profit of the Group.</p> <p>In the current year management classified the following items as exceptional charges in the middle column:</p> <ul style="list-style-type: none"> <li>• Environmental charges of £402 million – Relating to the re-evaluation of estimates of total remediation costs and cost sharing allocations borne by the Group for the three US Superfund sites, as well as the impact of the change in the real discount rate applied to the estimated undiscounted cash flows for all environmental provisions; and</li> <li>• Deferred tax arising on the reversal of the previously enacted reduction in the UK corporation tax rate of £192 million.</li> </ul> <p>The key judgements related to the calculation of the environmental charges have been discussed in the 'environmental provisions' key audit matter.</p>
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#### 5.4. Classification of exceptional items continued

<b>How the scope of our audit responded to the key audit matter</b>	<p>We have tested the controls over the classification and accuracy of the amounts presented as exceptional items in the middle column.</p> <p>We have obtained the Group's exceptional items framework and assessed the reasonableness of the framework for identifying items to be classified as exceptional. We assessed whether the classification of each of the items classified as exceptional complies with the approved framework and ESMA guidance and is reasonable. In making this assessment we also considered the consistency of application of the framework year on year. We substantiated the nature and quantum of significant individual items by examining appropriate evidence.</p> <p>We also considered other items which were not identified as exceptional in the context of management's exceptional items framework as part of our challenge of management's conclusions thereon, such as the provision for bad and doubtful debts in the US which was increased in the current year on account of the impact of COVID-19 and the related cessation of certain collection activities and disconnection of customers for non-payments.</p>
<b>Key observations</b>	<p>Our testing confirmed that the relevant controls over the classification and accuracy of the amounts presented as exceptional items in the middle column were found to be operating effectively.</p> <p>We determined that the amounts disclosed as exceptional were so classified in accordance with the Audit Committee approved exceptional items framework and that the framework has been applied consistently with prior years.</p> <p>Specifically, the classification of material increases in environmental provisions at the three Superfund sites and the impact on deferred tax balances of a change in tax rates have been classified as exceptional in prior years. We concur that the additional US bad debt charge should not be exceptional as it would represent just part of an amount calculated in accordance with IFRS.</p>

#### 5.5. Net pension obligations

<b>Key audit matter description</b>	<p><b>Account balance: Pensions and other post-retirement benefit obligations. Refer to notes 1E, 25 and 35 to the financial statements and the Audit Committee's discussion on pages 76 – 78.</b></p> <p>Substantially all of the Group's employees are members of one of a number of pension schemes in either the UK or US. These pension schemes include both defined benefit and defined contribution schemes. Healthcare and life insurance benefits are also provided to eligible retired US employees.</p> <p>There are significant assumptions used in the valuations of the defined benefit obligations, which as at 31 March 2020 represent a liability of £24.6 billion (2019: £24.9 billion), and valuations of unquoted pension assets ('unquoted assets'), which as at 31 March 2020 make up £11.4 billion (2019: £8.4 billion) out of scheme assets of £23.7 billion (2019: £24.8 billion).</p> <p>The critical judgements relating to the pension obligations include inflation assumptions, discount rates, mortality assumptions and future salary changes applied to active members. The setting of these assumptions is complex and changes to them can have a material impact on the value of pension obligations. Management uses external actuaries to assist in determining these assumptions. Accordingly, we have identified certain of these assumptions to be 'higher' audit risks.</p> <p>Unlike the fair value of other assets that are readily observable and therefore more easily independently corroborated, the valuation of unquoted pension assets classified is inherently subjective. As such there is significant judgement in determining the fair value of these assets including the selection of the valuation methodology and other critical assumptions. The COVID-19 pandemic has resulted in the valuation of certain property assets being subject to increased uncertainty. In addition the valuation of certain unquoted investments including those held in private equity portfolios are subject to an unusually high level of uncertainty due to the most recent valuations on them being performed prior to the significant economic impacts of the COVID-19 pandemic. For these investments, management engaged external experts to assess the economic impact of COVID-19 on the asset valuations as at year end, including property specialists who assessed the value of the property portfolio held within pension assets. Accordingly, we have identified this as an area of 'higher' audit risk.</p> <p>In the UK, the Group entered into two buy-in policies in the year. The Section A policy was entered into in August 2019, with the Section B policy completing in November 2019. The transactions involve the transfer of certain pension assets in the form of gilts and cash, valued at £2.8 billion and £1.6 billion respectively, in return for bulk annuity policies, with the intention of mitigating longevity risk. The transactions represent part of the Group's long term de-risking strategy, of a similar nature to the longevity swap entered into in 2018. Under a buy-in transaction the ultimate obligation to pay the members remains with the scheme and is hence retained within the Group's pension obligations; the bulk annuity is considered a qualifying insurance policy and is recognised at the valuation of the obligation it covers as an asset to the scheme. At the time of the transactions, the member obligations to which the policies relate were valued at £2.4 billion for Section A and £1.3 billion for Section B resulting in the recognition of actuarial losses of £700 million being recognised in Other Comprehensive Income, as disclosed in note 25 to the financial statements.</p>
<b>How the scope of our audit responded to the key audit matter</b>	<p>We tested the controls over the valuation of unquoted pension assets and over the critical assumptions used in determining the valuation of the pension obligations.</p> <p>We engaged internal actuarial experts to assist in testing the discount rates used in calculating the pension obligations. We independently calculated appropriate discount rates and compared these to management's rates.</p> <p>Our actuarial experts also assisted us in benchmarking and challenging the other assumptions used by management in determining the value of pension obligations particularly focusing on inflation, salary growth and mortality rates; this included comparing the inputs and assumptions used in determining the valuation of the Group's schemes to those used in comparable pension plans and/or our internal benchmarks.</p> <p>Additionally, we considered the competence, capability and objectivity of the independent actuaries engaged by the Group to perform valuations of the relevant schemes and where applicable, of unquoted assets.</p> <p>We engaged internal specialists to challenge management's valuation of certain unquoted scheme assets. Our work included assessing the reasonableness of the valuation methodologies applied, reviewing publically available information on these assets, comparing the valuations to internal benchmarks and confirmation of inputs used by management to determine the asset values.</p> <p>Further, our actuarial experts assisted us with the assessment of management's assumptions and valuation methodology related to the buy-ins and we consulted with technical experts as to the correct accounting treatment.</p>
<b>Key observations</b>	<p>Our testing confirmed that the relevant controls over the valuation of unquoted pension assets and over the critical assumptions used in determining the valuation of the pension obligations operated effectively.</p> <p>We judge the discount rates and other key actuarial assumptions used by management to be within our internally developed reasonable range or consistent with our internally developed assumptions.</p>

# Independent auditor's report to the members of National Grid plc continued

## 5. Key audit matters continued

### 5.5. Net pension obligations continued

<b>Key observations continued</b>	<p>We note that the recognition of the actuarial loss on the buy-in transactions, representing the difference between the price paid and the value of the obligations covered by the buy-in policies is appropriately recognised in OCI as it is treated as a change in the fair value of plan assets. We assessed the appropriateness of the related disclosures in note 25 to the financial statements and consider them to be reasonable.</p> <p>We consider management's valuations of the unquoted investments to be reasonable and the disclosures in note 1E to the financial statements regarding the estimation uncertainty and in note 35 to the financial statements regarding the sensitivity of the pension assets balance to the valuation of unquoted assets to be appropriate.</p>
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### 5.6. Treasury derivative transactions

<b>Key audit matter description</b>	<p><b>Account balances: Derivative financial assets and derivative financial liabilities. Refer to notes 17 and 32 to the financial statements.</b></p> <p>The Group mitigates the exposure to interest rate and foreign exchange rate risks with risk management activities including the use of derivatives such as cross-currency and interest rate swaps. The Group designates derivatives in hedge relationships where they judge this to meet the requirements of IFRS 9. Due to the technical nature of this assessment, we have identified it as a 'higher' audit risk. At 31 March 2020 the Group had derivative financial assets of £1,342 million (31 March 2019: £1,153 million) and derivative financial liabilities of £1,334 million (31 March 2019: £1,183 million).</p> <p>The valuation of the derivative portfolio requires management to make certain assumptions and judgements in particular around the valuation methodologies adopted and the discount rate to be applied to forecast cash flows.</p> <p>The portfolio also includes 'level 3' derivative financial liabilities of £245 million (31 March 2019: £216 million) for which unobservable inputs that are significant to the fair value measurement must be used in the valuation models. This results in management having to make estimates in relation to unobservable inputs, which increase the complexity and level of estimation uncertainty, and there is judgement involved in determining the methodology used to fair value these derivatives. Accordingly, we have identified this as an area of 'higher' audit risk.</p>
<b>How the scope of our audit responded to the key audit matter</b>	<p>We have tested the controls over the recording and valuation of derivative financial instruments. This has included testing of the review controls performed by management over the valuations and its challenge of the estimates made.</p> <p>In conjunction with our treasury specialists we have tested a sample of the valuation models used by management, including a challenge of the assumptions therein, to confirm the appropriateness of the valuation methodology adopted and the assumptions applied. We have obtained third party confirmations to test the completeness and accuracy of the information held within the Group's treasury management system.</p> <p>We have assessed the appropriateness of the hedge documentation, eligibility of designations and hedge effectiveness testing performed by management and tested the disclosures within the financial statements.</p> <p>We assessed whether the representation of items in the cash flow statement to reflect the change in accounting policy have been appropriately disclosed.</p>
<b>Key observations</b>	<p>Our testing confirmed that the relevant controls over the recording and valuation of derivative financial instruments were effective.</p> <p>We conclude that the valuation of derivatives and the Group's use of hedge accounting is appropriate.</p> <p>We are satisfied that the disclosures in respect of the cash flow statement accounting policy change, and the amounts represented in the prior year to reflect the updated policy, are appropriate.</p>

### 5.7. IT user access controls

<b>Key audit matter description</b>	<p><b>IT systems fulfil a critical role in the Group's financial reporting and accordingly IT user access control deficiencies potentially impact all account balances. Refer additionally to the Audit Committee's discussion of significant issues on pages 76 – 78.</b></p> <p>In the past two financial years (ended on 31 March 2019 and 31 March 2018), we identified deficiencies relating to segregation of duties, control over privileged access and user access management both within the Group and the Group's IT service organisations (together 'access deficiencies'). The deficiencies identified increased the risk that individuals within the Group and at service organisations had inappropriate access during the period.</p> <p>Management continued executing on their remediation programme commenced during the year ended 31 March 2018 in order to strengthen the IT control framework, and substantially completed the programme.</p> <p>The existence of deficiencies during the year results in an increased risk that data and reports from the affected systems are not reliable.</p> <p>The level of risk ascribed to our work in this area is dependent on the nature and complexity of the controls themselves and the balances within the financial statements the controls address.</p>
<b>How the scope of our audit responded to the key audit matter</b>	<p>In responding to the access deficiencies for in scope IT systems and the associated IT infrastructure, we have determined the impact that inappropriate levels of access throughout the year could feasibly have had on the affected systems and account balances including assessing the likelihood of inappropriate user access impacting the financial statements. Further, we tested controls implemented by management to identify instances of the use of inappropriate access, as well as mitigating controls included within management's remediation programme. Where no such controls existed, we extended the scope of our audit such that we have not placed reliance on controls for information produced or held in the impacted systems.</p>
<b>Key observations</b>	<p>A number of the deficiencies identified as unremediated in the prior year were remediated by year-end. We do not consider the remaining deficiencies to be significant and we found the mitigating controls implemented by management operated effectively.</p> <p>Due to the fact that the newly remediated controls did not operate for the entire year, we conducted a largely substantive audit in the areas impacted by the access deficiencies. We continued to rely on controls in certain areas where the IT systems were not impacted by the access deficiencies.</p>

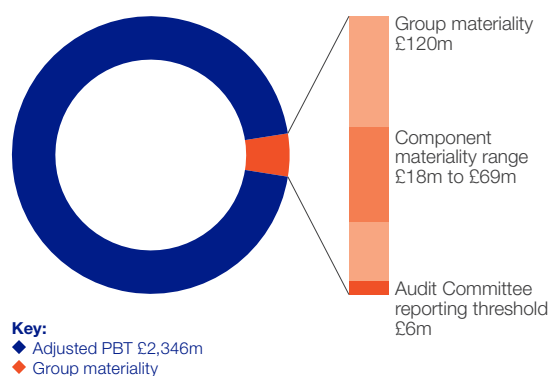
## 6. Our application of materiality

### 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
<b>Materiality</b>	£120 million (2019: £124 million).	£100 million (2019: £100 million).
<b>Basis for determining materiality</b>	Our determined materiality represents 5.1% of adjusted profit before tax and 6.8% of statutory profit before tax.  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.	1.2% of net assets.
<b>Rationale for the benchmark applied</b>	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.  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.  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.  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" and this was the key measure applied in the prior year.	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.



### 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 performance materiality was set at £92.0 million for the 2020 audit (2019: £86.8 million), or 77% of Group materiality (2019: 70%). In determining to increase performance materiality, we considered the following factors:

- 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; and
- our assessment of the Group's overall control environment.

# Independent auditor's report to the members of National Grid plc continued

## 6. Our application of materiality continued

### 6.3. Error reporting threshold

We agreed with the Audit Committee that we would report to the Committee all audit differences in excess of £6.0 million (2019: £6.2 million), as well as differences below that threshold which, in our view, warranted reporting on qualitative grounds. We also report to the Audit 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

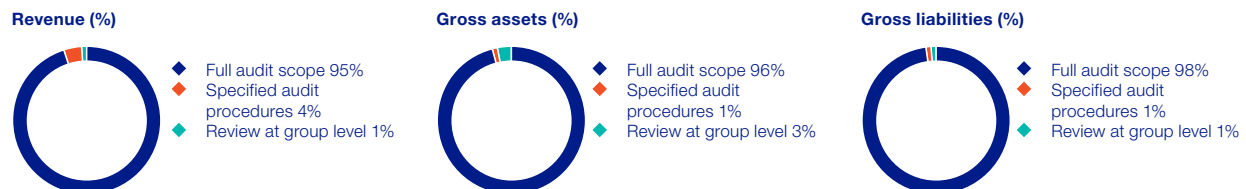
The following significant components of the Group were identified in our audit planning: UK Electricity Transmission, UK Gas Transmission and US Regulated. Each of these components was subjected to a full-scope audit for Group reporting purposes, completed to the individual component materiality level discussed above.

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 through a number of visits to the component auditors during the planning and performance stages of our audit alongside frequent remote communication and review of their work. In response to the COVID-19 pandemic which limited our ability to make component visits after the year end, frequent calls were held between the Group and component teams and remote access to relevant documents was provided.

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 audit matters including internal controls (including general IT controls), environmental provisions, pensions, treasury derivative transactions and the classification of exceptional items. As part of our monitoring of component auditors we have also attended key local audit meetings.

Additionally our audit planning identified the following non-significant components where we consider there to be a reasonable possibility of material misstatement in specific items within the financial statements: UK Property, the Isle of Grain LNG terminal and the Metering business. 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. The work on these components is carried out by the same component audit team as for the UK Electricity Transmission and UK Gas Transmission components.

In addition to the work performed at a component level the Group audit team also performed audit procedures on the parent company financial statements, including but not limited to corporate activities such as treasury and pensions 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 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 environmental provisions, where audit work is performed by both the Group and component audit teams as well as analytical reviews on out-of-scope components.



## 8. Other information

The directors are responsible for the other information. The other information comprises the information included in the Annual Report, other than the financial statements and our auditor's report thereon.

**We have nothing to report in respect of these matters.**

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.

In connection with our audit of the financial statements, 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 audit or otherwise appears to be materially misstated.

If we identify such material inconsistencies or apparent material misstatements, we are required to determine whether there is a material misstatement in the financial statements or a material misstatement of the other information. 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.

In this context, matters that we are specifically required to report to you as uncorrected material misstatements of the other information include where we conclude that:

- **Fair, balanced and understandable** – the statement given by the directors that they consider the Annual Report and financial statements taken as a whole is fair, balanced and understandable and provides the information necessary for shareholders to assess the Group's position and performance, business model and strategy, is materially inconsistent with our knowledge obtained in the audit; or
- **Audit Committee reporting** – the section describing the work of the Audit Committee does not appropriately address matters communicated by us to the Audit Committee; or
- **Directors' statement of compliance with the UK Corporate Governance Code** – the parts of the directors' statement required under the Listing Rules relating to the Company's compliance with the UK Corporate Governance Code containing provisions specified for review by the auditor in accordance with Listing Rule 9.8.10R(2) do not properly disclose a departure from a relevant provision of the UK Corporate Governance Code.

## 9. Responsibilities of directors

As explained more fully in the directors' responsibilities statement, 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.

Details of the extent to which the audit was considered capable of detecting irregularities, including fraud and non-compliance with laws and regulations are set out below.

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](http://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

We identify and assess the risks of material misstatement of the financial statements, whether due to fraud or error, and then design and perform audit procedures responsive to those risks, including obtaining audit evidence that is sufficient and appropriate to provide a basis for our opinion.

### 11.1. Identifying and assessing potential risks related to irregularities

In identifying and assessing risks of material misstatement in respect of irregularities, including fraud and 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;
- results of our enquiries of management, internal audit and the Audit 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;
  - the internal controls established to mitigate risks of fraud or non-compliance with laws and regulations;
- the matters discussed among the audit engagement team including significant component audit teams and involving relevant internal specialists, including tax, pensions, IT, and treasury specialists regarding how and where fraud might occur in the financial statements and any potential indicators of fraud. The engagement team includes audit 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. The discussion was also carried out across the engagement team specific to the potential fraud implications of COVID-19 in relation to added financial pressures as well as in relation to increases in remote working.

In common with all audits under ISAs (UK), we are also required to identify management override as a significant risk and to perform specific procedures to respond to that risk.

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, the UK Listing Rules, pensions and tax legislation, US Securities Exchange Act 1934 and relevant SEC regulations, as well as laws and regulations prevailing in each country in which we identified a full scope component. In addition, compliance with terms of the Group's operating licence and environmental regulations were fundamental to the Group's operations.

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;
- enquiring of management, the Audit Committee and in-house legal counsel concerning actual and potential litigation and claims;
- performing analytical procedures to identify any unusual or unexpected relationships that may indicate risks of material misstatement due to fraud;
- reading minutes of meetings of those charged with governance, reviewing internal audit reports and reviewing correspondence with relevant regulatory authorities;
- in addressing the risk of fraud through management override of controls, testing the appropriateness of journal entries and other adjustments; assessing whether the judgements made in making accounting estimates are indicative of a potential bias; and evaluating the business rationale of any significant transactions that are unusual or outside the normal course of business.

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, and 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. Matters on which we are required to report by exception

##### 13.1. 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 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.

We have nothing to report in respect of these matters.

##### 13.2. 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.

#### 14. Other matters

##### 14.1. Auditor tenure

We became independent and commenced our audit transition on 1 January 2017. Following the recommendation of the audit 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 three years, covering the years ending 31 March 2018 to 31 March 2020.

##### 14.2. Consistency of the audit report with the additional report to the Audit Committee

Our audit opinion is consistent with the additional report to the Audit Committee we are required to provide in accordance with ISAs (UK).

##### 15. 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.

#### Douglas King FCA (Senior statutory auditor)

For and on behalf of Deloitte LLP  
Statutory Auditor  
London, United Kingdom  
17 June 2020



## Consolidated income statement for the years ended 31 March

2020	Notes	Before exceptional items and remeasurements £m	Exceptional items and remeasurements (see note 5) £m	Total £m
<b>Continuing operations</b>				
Revenue	2(a),3	14,540	–	14,540
Provision for bad and doubtful debts	4	(234)	–	(234)
Other operating costs	4,5	(10,999)	(527)	(11,526)
<b>Operating profit/(loss)</b>	2(b)	<b>3,307</b>	<b>(527)</b>	<b>2,780</b>
Finance income	5,6	70	(16)	54
Finance costs	5,6	(1,119)	(48)	(1,167)
Share of post-tax results of joint ventures and associates	5,16	88	(1)	87
<b>Profit/(loss) before tax</b>	2(b),5	<b>2,346</b>	<b>(592)</b>	<b>1,754</b>
Tax	5,7	(433)	(47)	(480)
Profit/(loss) after tax from continuing operations	5	1,913	(639)	1,274
Profit/(loss) after tax from discontinued operations	10	5	(14)	(9)
<b>Total profit/(loss) for the year (continuing and discontinued)</b>		<b>1,918</b>	<b>(653)</b>	<b>1,265</b>
Attributable to:				
Equity shareholders of the parent		1,917	(653)	1,264
Non-controlling interests from continuing operations		1	–	1
<b>Earnings per share (pence)</b>				
Basic earnings per share (continuing)	8			36.8
Diluted earnings per share (continuing)	8			36.6
Basic earnings per share (continuing and discontinued)	8			36.5
Diluted earnings per share (continuing and discontinued)	8			36.3

2019	Notes	Before exceptional items and remeasurements £m	Exceptional items and remeasurements (see note 5) £m	Total £m
<b>Continuing operations</b>				
Revenue	2(a),3	14,933	–	14,933
Provision for bad and doubtful debts	4	(181)	–	(181)
Other operating costs	4,5	(11,310)	(572)	(11,882)
<b>Operating profit/(loss)</b>	2(b)	<b>3,442</b>	<b>(572)</b>	<b>2,870</b>
Finance income	5,6	73	15	88
Finance costs	5,6	(1,066)	(91)	(1,157)
Share of post-tax results of joint ventures and associates	10,16	40	–	40
<b>Profit/(loss) before tax</b>	2(b),5	<b>2,489</b>	<b>(648)</b>	<b>1,841</b>
Tax	5,7	(488)	149	(339)
Profit/(loss) after tax from continuing operations	5	2,001	(499)	1,502
Profit/(loss) after tax from discontinued operations	10	57	(45)	12
<b>Total profit/(loss) for the year (continuing and discontinued)</b>		<b>2,058</b>	<b>(544)</b>	<b>1,514</b>
Attributable to:				
Equity shareholders of the parent		2,055	(544)	1,511
Non-controlling interests from continuing operations		3	–	3
<b>Earnings per share (pence)</b>				
Basic earnings per share (continuing)	8			44.3
Diluted earnings per share (continuing)	8			44.1
Basic earnings per share (continuing and discontinued)	8			44.6
Diluted earnings per share (continuing and discontinued)	8			44.4

## Consolidated income statement for the years ended 31 March continued

2018	Notes	Before exceptional items and remeasurements £m	Exceptional items and remeasurements (see note 5) £m	Total £m
<b>Continuing operations</b>				
Revenue	2(a)	15,250	–	15,250
Provision for bad and doubtful debts	4	(36)	–	(36)
Other operating costs	4,5	(11,757)	36	(11,721)
<b>Operating profit</b>	2(b)	3,457	36	3,493
Finance income	6	127	–	127
Finance costs	5,6	(1,128)	119	(1,009)
Share of post-tax results of joint ventures and associates	10	44	5	49
<b>Profit before tax</b>	2(b),5	2,500	160	2,660
Tax	5,7	(584)	1,473	889
Profit after tax from continuing operations	5	1,916	1,633	3,549
Profit/(loss) after tax from discontinued operations	10	145	(143)	2
<b>Total profit for the year (continuing and discontinued)</b>		2,061	1,490	3,551
Attributable to:				
Equity shareholders of the parent		2,060	1,490	3,550
Non-controlling interests from continuing operations		1	–	1
<b>Earnings per share (pence)</b>				
Basic earnings per share (continuing)	8			102.5
Diluted earnings per share (continuing)	8			102.1
Basic earnings per share (continuing and discontinued)	8			102.6
Diluted earnings per share (continuing and discontinued)	8			102.1

## Consolidated statement of comprehensive income for the years ended 31 March

	Notes	2020 £m	2019 £m	2018 £m
<b>Profit after tax from continuing operations</b>		<b>1,274</b>	1,502	3,549
Other comprehensive income from continuing operations				
Items from continuing operations that will never be reclassified to profit or loss:				
Remeasurement (losses)/gains on pension assets and post-retirement benefit obligations	25	(724)	68	1,313
Net losses on equity instruments designated at fair value through other comprehensive income		(9)	–	–
Net (losses)/gains on financial liability designated at fair value through profit and loss attributable to changes in own credit risk		(3)	7	–
Net losses in respect of cash flow hedging of capital expenditure		(17)	(13)	–
Tax on items that will never be reclassified to profit or loss	7	212	(15)	(530)
<b>Total items from continuing operations that will never be reclassified to profit or loss</b>		<b>(541)</b>	47	783
Items from continuing operations that may be reclassified subsequently to profit or loss:				
Exchange adjustments		551	347	(505)
Net (losses)/gains in respect of cash flow hedges		(128)	(40)	16
Net losses in respect of cost of hedging		(78)	(66)	–
Net losses on available-for-sale investments		–	–	(30)
Transferred to profit or loss on sale of available-for-sale investments		–	–	(73)
Net (losses)/gains on investment in debt instruments measured at fair value through other comprehensive income		(15)	2	–
Share of other comprehensive (losses)/income of associates, net of tax		(5)	1	–
Tax on items that may be reclassified subsequently to profit or loss	7	35	12	33
<b>Total items from continuing operations that may be reclassified subsequently to profit or loss</b>		<b>360</b>	256	(559)
Other comprehensive (loss)/income for the year, net of tax from continuing operations		(181)	303	224
Other comprehensive income for the year, net of tax from discontinued operations <sup>1</sup>	10	6	36	147
<b>Other comprehensive (loss)/income for the year, net of tax</b>		<b>(175)</b>	339	371
Total comprehensive income for the year from continuing operations		<b>1,093</b>	1,805	3,773
Total comprehensive (loss)/income for the year from discontinued operations	10	(3)	48	149
<b>Total comprehensive income for the year</b>		<b>1,090</b>	1,853	3,922
Attributable to:				
<b>Equity shareholders of the parent</b>				
From continuing operations		1,091	1,801	3,773
From discontinued operations		(3)	48	149
		<b>1,088</b>	1,849	3,922
<b>Non-controlling interests</b>				
From continuing operations		2	4	–

1. The other comprehensive income from discontinued operations relates to the items of other comprehensive income of Cadent (investment through Quadgas HoldCo Limited). Refer to note 10 for details.

## 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 <sup>1</sup> £m	Total shareholders' equity £m	Non-controlling interests £m	Total equity £m
At 31 March 2017	449	1,324	22,582	(3,987)	20,368	16	20,384
Profit for the year	–	–	3,550	–	3,550	1	3,551
Other comprehensive income/(loss) for the year	–	–	925	(553)	372	(1)	371
Total comprehensive income/(loss) for the year	–	–	4,475	(553)	3,922	–	3,922
Equity dividends	–	–	(4,487)	–	(4,487)	–	(4,487)
Scrip dividend-related share issue <sup>2</sup>	3	(3)	–	–	–	–	–
Purchase of treasury shares	–	–	(1,017)	–	(1,017)	–	(1,017)
Issue of treasury shares	–	–	33	–	33	–	33
Purchase of own shares	–	–	(5)	–	(5)	–	(5)
Share-based payments	–	–	16	–	16	–	16
Tax on share-based payments	–	–	2	–	2	–	2
At 31 March 2018 (as previously reported)	452	1,321	21,599	(4,540)	18,832	16	18,848
Impact of transition to IFRS 9 and IFRS 15	–	–	(268)	72	(196)	–	(196)
At 1 April 2018 (as restated)	452	1,321	21,331	(4,468)	18,636	16	18,652
Profit for the year	–	–	1,511	–	1,511	3	1,514
Other comprehensive income for the year	–	–	89	249	338	1	339
Total comprehensive income for the year	–	–	1,600	249	1,849	4	1,853
Equity dividends	–	–	(1,160)	–	(1,160)	–	(1,160)
Scrip dividend-related share issue <sup>2</sup>	6	(7)	–	–	(1)	–	(1)
Issue of treasury shares	–	–	18	–	18	–	18
Purchase of own shares	–	–	(2)	–	(2)	–	(2)
Share-based payments	–	–	27	–	27	–	27
Cash flow hedges transferred to the statement of financial position, net of tax	–	–	–	(18)	(18)	–	(18)
At 1 April 2019	458	1,314	21,814	(4,237)	19,349	20	19,369
Profit for the year	–	–	1,264	–	1,264	1	1,265
Other comprehensive (loss)/income for the year	–	–	(509)	333	(176)	1	(175)
Total comprehensive income for the year	–	–	755	333	1,088	2	1,090
Equity dividends	–	–	(892)	–	(892)	–	(892)
Scrip dividend-related share issue <sup>2</sup>	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)
<b>At 31 March 2020</b>	<b>470</b>	<b>1,301</b>	<b>21,710</b>	<b>(3,919)</b>	<b>19,562</b>	<b>22</b>	<b>19,584</b>

1. For further details of other equity reserves, see note 28.

2. Included within the share premium account are costs associated with scrip dividends.

## Consolidated statement of financial position as at 31 March

	Notes	2020 £m	2019 £m
<b>Non-current assets</b>			
Goodwill	11	6,233	5,869
Other intangible assets	12	1,295	1,084
Property, plant and equipment	13	48,770	43,913
Other non-current assets	14	354	264
Pension assets	25	1,849	1,567
Financial and other investments	15	543	667
Investments in joint ventures and associates	16	995	608
Derivative financial assets	17	1,249	1,045
<b>Total non-current assets</b>		<b>61,288</b>	<b>55,017</b>
<b>Current assets</b>			
Inventories and current intangible assets	18	549	370
Trade and other receivables	19	2,986	3,153
Current tax assets		102	126
Financial and other investments	15	1,998	1,981
Derivative financial assets	17	93	108
Cash and cash equivalents	20	73	252
Assets held for sale	10	–	1,956
<b>Total current assets</b>		<b>5,801</b>	<b>7,946</b>
<b>Total assets</b>		<b>67,089</b>	<b>62,963</b>
<b>Current liabilities</b>			
Borrowings	21	(4,072)	(4,472)
Derivative financial liabilities	17	(380)	(350)
Trade and other payables	22	(3,602)	(3,769)
Contract liabilities	23	(76)	(61)
Current tax liabilities		(86)	(161)
Provisions	26	(348)	(316)
<b>Total current liabilities</b>		<b>(8,564)</b>	<b>(9,129)</b>
<b>Non-current liabilities</b>			
Borrowings	21	(26,722)	(24,258)
Derivative financial liabilities	17	(954)	(833)
Other non-current liabilities	24	(891)	(808)
Contract liabilities	23	(1,082)	(933)
Deferred tax liabilities	7	(4,184)	(3,965)
Pensions and other post-retirement benefit obligations	25	(2,802)	(1,785)
Provisions	26	(2,306)	(1,883)
<b>Total non-current liabilities</b>		<b>(38,941)</b>	<b>(34,465)</b>
<b>Total liabilities</b>		<b>(47,505)</b>	<b>(43,594)</b>
<b>Net assets</b>		<b>19,584</b>	<b>19,369</b>
<b>Equity</b>			
Share capital	27	470	458
Share premium account		1,301	1,314
Retained earnings		21,710	21,814
Other equity reserves	28	(3,919)	(4,237)
<b>Total shareholders' equity</b>		<b>19,562</b>	<b>19,349</b>
Non-controlling interests		22	20
<b>Total equity</b>		<b>19,584</b>	<b>19,369</b>

The consolidated financial statements set out on pages 121 to 208 were approved by the Board of Directors on 17 June 2020 and were signed on its behalf by:

**Sir Peter Gershon** Chairman  
**Andy Agg** Chief Financial Officer

**National Grid plc**  
Registered number: 4031152

## Consolidated cash flow statement for the years ended 31 March

	Notes	2020 £m	2019 £m	2018 £m
<b>Cash flows from operating activities</b>				
Total operating profit from continuing operations	2(b)	2,780	2,870	3,493
Adjustments for:				
Exceptional items and remeasurements	5	527	572	(36)
Depreciation, amortisation and impairment		1,640	1,588	1,530
Share-based payments		19	27	16
Changes in working capital		269	40	118
Changes in provisions		(169)	(110)	(206)
Changes in pensions and other post-retirement benefit obligations		(92)	(123)	(239)
Cash flows relating to exceptional items		(60)	(400)	26
Cash generated from operations – continuing operations		4,914	4,464	4,702
Tax (paid)/recovered		(199)	(75)	8
<b>Net cash inflow from operating activities – continuing operations</b>		<b>4,715</b>	<b>4,389</b>	<b>4,710</b>
<b>Net cash used in operating activities – discontinued operations</b>	10	<b>(97)</b>	<b>(71)</b>	<b>(207)</b>
<b>Cash flows from investing activities</b>				
Acquisition of financial investments		(108)	(89)	(2)
Acquisition of Geronimo and Emerald	38	(139)	–	–
Investments in joint ventures and associates		(82)	(143)	(129)
Loans to joint ventures and associates		–	(31)	(68)
Disposal of financial investments		63	18	134
Disposal of 61% interest in UK Gas Distribution		–	–	(20)
Disposal of interests in Quadgas HoldCo Limited	10	1,965	–	–
Purchases of intangible assets		(317)	(306)	(173)
Purchases of property, plant and equipment		(4,583)	(3,635)	(3,738)
Disposals of property, plant and equipment		68	38	10
Dividends received from joint ventures and associates		75	68	69
Interest received		73	68	30
Net movements in short-term financial investments		7	822	5,953
Net movements in derivatives <sup>1</sup>		(223)	(412)	330
<b>Net cash flow (used in)/from investing activities – continuing operations</b>		<b>(3,201)</b>	<b>(3,602)</b>	<b>2,396</b>
<b>Net cash flow used in investing activities – discontinued operations</b>	10	<b>6</b>	<b>156</b>	<b>171</b>
<b>Cash flows from financing activities</b>				
Purchase of treasury shares		–	–	(1,017)
Proceeds from issue of treasury shares		16	17	33
Purchase of own shares		(6)	(2)	(5)
Proceeds received from loans	29(c)	4,218	2,932	1,941
Repayment of loans	29(c)	(3,253)	(1,969)	(2,156)
Payments of lease liabilities	29(c)	(121)	(70)	(71)
Net movements in short-term borrowings	29(c)	(424)	179	(764)
Net movements in derivatives <sup>1</sup>	29(c)	(187)	35	(267)
Interest paid	29(c)	(957)	(914)	(853)
Dividends paid to shareholders		(892)	(1,160)	(4,487)
<b>Net cash flow used in financing activities – continuing operations</b>		<b>(1,606)</b>	<b>(952)</b>	<b>(7,646)</b>
<b>Net cash flow (used in)/from financing activities – discontinued operations</b>	10	<b>–</b>	<b>–</b>	<b>(231)</b>
<b>Net decrease in cash and cash equivalents</b>	29(a)	<b>(183)</b>	<b>(80)</b>	<b>(807)</b>
Exchange movements		4	3	(3)
Cash and cash equivalents at start of year		252	329	1,139
<b>Cash and cash equivalents at end of year</b>	20	<b>73</b>	<b>252</b>	<b>329</b>

1. Certain derivative balances have been represented for all periods presented to reflect a reclassification from financing activities to investing activities to reflect a change in accounting policy (see note 1 for details).



# Notes to the consolidated financial statements

## – analysis of items in the primary 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 EU 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 and gas in Great Britain and 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 17 June 2020.

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 EU. They are prepared on the basis of all IFRS accounting standards and interpretations that are mandatory for periods ended 31 March 2020 and in accordance with the Companies Act 2006 applicable to companies reporting under IFRS and Article 4 of the EU IAS Regulation. 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, and is consistent with the way that financial performance is measured by management and reported to the Board and 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 forms 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 to our results on a statutory basis and period on period.

### A. Going concern

As at the date of approving these financial statements, the impact of COVID-19 on the Group's operations is continually being assessed and subject to rapid change. The Directors have assessed the principal risks discussed on pages 24 – 25, including by modelling both a base case and a reasonable worst case scenario. The reasonable worst-case scenario covers the cash flow impact associated with an extended lockdown for a period of 12 months across both the UK and US. The main cash flow impacts identified in the reasonable worst-case scenario are:

- a significant reduction in cash collections over an extended 12-month period driven by lower customer demand and increased bad debt in our US businesses;
- additional working capital required to fund payment term extensions and charge deferrals in the UK electricity market, intended to help customers and end-user consumers;
- one-off increases in other costs such as cleaning, safety equipment and IT; offset by
  - a reduction in non-essential capital expenditure across the Group driven by increased absenteeism, supply chain issues and difficulty in accessing sites; and
  - a reduction in discretionary spend across all areas (e.g. recruitment, travel and consultancy spend).

As part of their analysis, the Board also considered the following potential levers at their discretion to improve the position identified by the reasonable worst-case scenario in the event that the debt capital markets are not accessible:

- further significant changes in the phasing of the Group's capital programme with elements of non-essential works and programmes delayed beyond June 2021;
- a number of further reductions in operating expenditure across the Group primarily related to workforce cost reductions in both the UK and the US; and
- the payment of dividends to shareholders.

Having considered the reasonable worst-scenario and 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 financing was separately included in the analysis and the Directors noted the £0.9 billion debt issuances completed in April 2020 (disclosed in note 21 to the financial statements) as evidence of the Group's ability to continue to have access to the debt capital markets if needed. Other factors considered by the Board as part of their Going Concern assessment included the potential impact of Brexit trade talks, the Group's various ongoing rate case determinations in the UK and US alongside inherent uncertainties in cash flow forecasts (such as the impact of storms in our US business).

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

## – analysis of items in the primary 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 power 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. Treatment of interests in Quadgas HoldCo Limited (Quadgas) – discontinued operations and held for sale

At the end of June 2019, we completed the disposal of our retained 39% interest in the UK Gas Distribution business (held through Quadgas) that was classified as held for sale. We have treated the results and cash flows of Quadgas as a discontinued operation in the consolidated income statement and consolidated cash flow statement. Refer to note 10 for further details.

#### D. 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).

#### E. 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;
- the judgement that notwithstanding legislation enacted and targets established during the year ended 31 March 2020 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 estimate below and note 13); and
- following the legal separation of the Electricity System Operator on 1 April 2019, we concluded that the Electricity System Operator acts as an agent in respect of certain Transmission Network Use of Service revenues, principally those collected on behalf of the Scottish and Offshore transmission operators, as detailed in note 3.

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:

- 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).

In light of the current ongoing impact of the COVID-19 pandemic, valuations of certain assets and liabilities are necessarily more subjective. In particular, two further areas of estimation uncertainty impacting the Group's position as at 31 March 2020 have been identified:

- the valuation of certain pension assets, in particular unquoted equities, properties and diversified alternatives, in light of the volatile economic markets (see note 25); and
- the recoverability of customer receivables, particularly in relation to US retail customers, in light of the suspension of debt collection activities and customer termination activities (see note 19).

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. Information on what we believe a reasonably possible range of outcomes to be on recoverability of customer receivables are included in note 19.

## 1. Basis of preparation and recent accounting developments continued

### F. 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)).
- Cash flow statement: Following a review in the year, we have changed our accounting policy in relation to the presentation of derivatives in the cash flow statement, which has resulted in £412 million of cash outflows for 2019 and £330 million of cash inflows from 2018 to be presented as investing activities rather than financing activities. The reclassified cash flows are in relation to derivatives associated with our net investment hedges, and given they are designated in a hedge relationship, the Group has decided to present them together with the underlying hedged item rather than as part of our overall financing activities.

### G. New IFRS accounting standards and interpretations effective for the year ended 31 March 2020

The Group adopted IFRS 16 'Leases' with effect from 1 April 2019. We have applied the modified retrospective approach permitted in the standard whereby prior year comparatives have not been restated on adoption. Instead, any cumulative transition adjustments are reflected through reserves. Refer to note 37 for full details of the impact and transition adjustments arising on adoption.

The UK's Financial Conduct Authority announced that LIBOR will cease to exist by the end of 2021, and will be replaced by alternative reference rates. In September 2019, the IASB amended IFRS 9 and IFRS 7 by issuing Interest Rate Benchmark Reform, which provides exceptions to specific hedge accounting requirements to ensure that hedging relationships are not considered to be modified as a result of the change in the reference rate. The amendments were endorsed in January 2020 for adoption in the EU. The Group early-adopted these changes to IFRS 9 and IFRS 7 with effect from 1 April 2019. There were no transition adjustments on adoption. Refer to note 32(e) for further details of the impact in the current period.

The Group has also adopted the following amendments to standards, which have had no material impact on the Group's results or financial statement disclosure:

- IFRIC 23 'Uncertainty over Income Tax Treatments';
- Amendments to IAS 28 'Investments in Associates – Long-term Interests in Associates and Joint Ventures';
- Annual Improvements to IFRS Standards 2015–2017 Cycle; and
- Amendments to IAS 19 'Employee Benefits'.

### H. 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 EU:

- IFRS 17 'Insurance Contracts';
- Amendments to IFRS 3 'Business Combinations';
- Amendments to the References to the Conceptual Framework;
- Amendments to IAS 1 and IAS 8: Definition of material; and
- Amendments to IAS 1 'Presentation of Financial Statements'.

Effective dates remain subject to the EU 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

### – analysis of items in the primary 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.

The results of our three principal businesses are reported to the Board of Directors and are treated as reportable operating segments. The following table describes the main activities for each reportable operating segment:

UK Electricity Transmission	The high-voltage electricity transmission networks in England and Wales and independent Great Britain system operator.
UK Gas Transmission	The high-pressure gas transmission networks in Great Britain and system operator in Great Britain.
US Regulated	Gas distribution networks, electricity distribution networks and high-voltage electricity transmission networks in New York and New England and electricity generation facilities in New York.

The UK Electricity Transmission segment also includes the independent Electricity System Operator (ESO). Although there is a separate governance structure (including a separate Executive Committee), the Board receives financial information on an aggregated UK Electricity Transmission basis, which includes the results of the ESO, and accordingly the ESO is included within the reportable segment.

National Grid Ventures (NGV) is our only other operating segment. It does not currently 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. Instead, NGV's results are reported alongside the results of all other operating businesses on an aggregated basis as "NGV and Other", with certain additional disclosure included in footnotes.

NGV represents our key strategic growth area outside our regulated core business in competitive markets across the US and the UK. The business comprises all commercial operations in metering, LNG at the Isle of Grain in the UK, electricity interconnectors and our new investments in Geronimo Energy LLC (Geronimo) and Emerald Energy Venture LLC (Emerald). Geronimo is a developer of wind and solar generation based in Minneapolis in the US. The acquisition is National Grid's first ownership stake in wind generation and an expansion of our activities in solar generation.

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.

The segmental information is presented in relation to continuing operations only and therefore does not include the profits and losses relating to our interest in Quadgas for any period presented (see note 10).

#### (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.

	2020			2019			2018		
	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	3,702	(8)	3,694	3,351	(20)	3,331	4,154	(28)	4,126
UK Gas Transmission	927	(16)	911	896	(12)	884	1,091	(9)	1,082
US Regulated	9,205	–	9,205	9,846	–	9,846	9,272	–	9,272
NGV and Other <sup>1</sup>	736	(6)	730	876	(4)	872	776	(6)	770
Total revenue from continuing operations	14,570	(30)	14,540	14,969	(36)	14,933	15,293	(43)	15,250
Split by geographical areas – continuing operations:									
UK			5,282			5,045			5,938
US			9,258			9,888			9,312
			14,540			14,933			15,250

1. Included within NGV and Other is £608 million (2019: £597 million; 2018: £593 million) of revenue relating to NGV.

## 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			After exceptional items and remeasurements		
	2020 £m	2019 £m	2018 £m	2020 £m	2019 £m	2018 £m
Operating segments – continuing operations:						
UK Electricity Transmission	1,320	1,015	1,041	1,316	778	1,041
UK Gas Transmission	348	303	487	347	267	487
US Regulated	1,397	1,724	1,698	880	1,425	1,734
NGV and Other <sup>1,2</sup>	242	400	231	237	400	231
Total operating profit from continuing operations	3,307	3,442	3,457	2,780	2,870	3,493
Split by geographical area – continuing operations:						
UK	1,925	1,695	1,840	1,915	1,422	1,840
US	1,382	1,747	1,617	865	1,448	1,653
	3,307	3,442	3,457	2,780	2,870	3,493

Below we reconcile total operating profit from continuing operations to profit before tax from continuing operations. Total operating exceptional items and remeasurements of £527 million charge (2019: £572 million charge; 2018: £36 million gain) are detailed in note 5. This is comprised of a £4 million charge (2019: £237 million charge; 2018: £nil) attributable to UK Electricity Transmission; £1 million charge (2019: £36 million charge; 2018: £nil) to UK Gas Transmission; £517 million charge (2019: £299 million charge; 2018: £36 million gain) to US Regulated; and £5 million charge (2019: £nil; 2018: £nil) to NGV and Other.

Reconciliation to profit before tax:						
Operating profit from continuing operations	3,307	3,442	3,457	2,780	2,870	3,493
Finance income	70	73	127	54	88	127
Finance costs	(1,119)	(1,066)	(1,128)	(1,167)	(1,157)	(1,009)
Share of post-tax results of joint ventures and associates	88	40	44	87	40	49
Profit before tax from continuing operations	2,346	2,489	2,500	1,754	1,841	2,660

1. Included within NGV and Other is £269 million (2019: £263 million; 2018: £234 million) of operating profit before exceptional items and remeasurements and £268 million of operating profit after exceptional items and remeasurements (2019: £263 million; 2018: £234 million), relating to NGV.

2. In 2019, NGV and Other included gains of £95 million in relation to cash received in respect of two legal settlements.

### (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. In 2020, we transferred certain software assets and properties which are held outside the US rate base and operate for the benefit of our US Regulated businesses, that were previously included within the NGV and Other segment, to the US Regulated segment. See footnote 2.

	Net book value of property, plant and equipment and other intangible assets			Capital expenditure			Depreciation, amortisation and impairment		
	2020 £m	2019 £m	2018 £m	2020 £m	2019 £m	2018 £m	2020 £m	2019 £m	2018 £m
Operating segments:									
UK Electricity Transmission	13,788	13,288	13,028	1,043	925	999	(469)	(628)	(475)
UK Gas Transmission	4,513	4,412	4,280	249	308	310	(171)	(181)	(194)
US Regulated <sup>2</sup>	29,623	24,542	20,953	3,228	2,650	2,424	(855)	(700)	(635)
NGV and Other <sup>1,2</sup>	2,141	2,755	2,491	559	438	341	(145)	(226)	(226)
Total from continuing operations	50,065	44,997	40,752	5,079	4,321	4,074	(1,640)	(1,735)	(1,530)
Split by geographical area – continuing operations:									
UK	20,427	19,343	18,772	1,847	1,584	1,527	(784)	(931)	(804)
US	29,638	25,654	21,980	3,232	2,737	2,547	(856)	(804)	(726)
	50,065	44,997	40,752	5,079	4,321	4,074	(1,640)	(1,735)	(1,530)
Asset type:									
Property, plant and equipment	48,770	43,913	39,853	4,727	4,015	3,901	(1,464)	(1,560)	(1,392)
Non-current intangible assets	1,295	1,084	899	352	306	173	(176)	(175)	(138)
Total from continuing operations	50,065	44,997	40,752	5,079	4,321	4,074	(1,640)	(1,735)	(1,530)

1. Included within NGV and Other are assets with a net book value of £2,080 million (2019: £1,635 million; 2018: £1,454 million), capital expenditure of £550 million (2019: £317 million; 2018: £186 million) and depreciation, amortisation and impairment of £124 million (2019: £114 million; 2018: £143 million) relating to NGV.

2. In 2020, US Regulated includes certain software assets and properties in the US which are outside the US rate base and operate for the benefit of our US regulated businesses. These assets were included within NGV and Other in 2019 and 2018. The assets had a net book value of £1,062 million in 2019 and £998 million in 2018, capital expenditure of £87 million in 2019 and £161 million in 2018 and depreciation, amortisation and impairment of £102 million in 2019 and £80 million in 2018.

Total non-current assets other than financial instruments and pension assets located in the UK and US were £31,780 million and £25,867 million respectively as at 31 March 2020 (31 March 2019: UK £30,072 million, US £21,787 million; 31 March 2018: UK £20,816 million, US £27,663 million).

## Notes to the consolidated financial statements

### – analysis of items in the primary 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 the leasing standard as rental income, also presented within revenue. Revenue is measured based on the consideration specified in a contract with a customer 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.

IFRS 15 was adopted in the prior year and applied prospectively from 1 April 2018. Therefore, the analysis below is only provided for the current period and the immediate comparative period. 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 (both as transmission owner in England and Wales and system operator in Great Britain). 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 IFRS revenues we record are principally a function of volumes and price. Price is determined prior to our financial year-end with reference to the regulated allowed returns and estimated annual volumes. Where revenue received or receivable exceeds the maximum amount permitted by 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. As part of our regulatory agreements we are entitled to recover certain costs directly from customers (pass-through costs). These amounts are included in the overall calculation of allowed revenue as stipulated by regulatory agreements.

The System Operator earns revenue for balancing supply and demand of electricity on the transmission system, where it acts as principal. Revenue is recognised as the service is provided. The System Operator also collects revenues on behalf of transmission operators, principally NGET and the Scottish and Offshore transmission operators, from users who connect to or use the transmission system. However, these amounts are paid to the transmission operators before the System Operator has collected payment from the users (electricity suppliers) and therefore the System Operator does hold some exposure to credit losses with electricity suppliers. The System Operator must set the charges paid by electricity suppliers by reference to the price control mechanism described above. That mechanism does not grant the System Operator with discretion to deviate from that mechanism. The transmission operators own and maintain the electricity network and receive direct feedback from electricity suppliers on the quality of the network they provide. There is a judgement about whether the System Operator acts as a principal or agent in respect of the transmission network revenues collected on behalf of the Scottish and Offshore transmission operators (as set out in note 1). We have concluded that it acts as an agent in respect of these transmission revenues and therefore records the attributable revenue net of operating costs.

The transmission of high-voltage electricity encompasses the following principal services:

- the supply of high-voltage electricity (including both transmission and system operator charges); and
- construction work (principally for connections).

For the supply of high-voltage electricity, revenue is recognised based on capacity and volumes. 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.

For construction work relating to connections, customers can either pay over the useful life of the connection or upfront. Revenue is recognised over time, as we provide access to our network, and where the customer pays upfront, revenues are deferred and released over the life of the connection.

For other construction where there is no consideration for any future services, for example diversions (being the re-routing of network assets at our customers' request), revenues are recognised as the construction work is completed.

##### (b) UK Gas Transmission

The UK Gas Transmission segment of the Group principally generates revenue by providing gas transmission services to our customers (both as transmission owner and as system operator) in Great Britain. Similar to our UK Electricity Transmission business, our business operates as a monopoly regulated by Ofgem. The price control mechanism in place that determines our annual allowances is also similar, as is the way in which revenue is recorded.

The transmission of gas encompasses the following principal services:

- the supply of high-pressure gas (including both transmission and system operator charges); and
- construction work (principally for connections).

For the supply of high-pressure gas, revenue is recognised based on capacity and volumes. Our performance obligation is satisfied over time as our customers make use of our network, and we bill monthly in arrears with payment terms of up to 45 days.

For construction work relating to connections, customers pay for the connection upfront. Revenue is recognised over time, as we provide access to our network. Where revenues are received upfront, they are deferred and released over the life of the connection.

For other construction where there is no consideration for any future services (such as diversions), revenues are recognised when the construction work is completed.



### 3. Revenue continued

#### (c) US Regulated

The US Regulated segment of the Group principally generates revenue by providing gas and electricity distribution services in New York and New England, high voltage electricity transmission services in New York and New England, and electricity generation in New York.

#### Distribution services

Provision of gas and electricity distribution services in New York and New England. This comprises the following principal services:

- Gas and electricity distribution: revenue is recognised based on usage by customers (over time) and billed monthly. Payment terms are 30 days; and
- Connections: revenue is recognised over time, as we provide access to our network. Where payments are made upfront, they are deferred over the life of the asset.

#### Transmission services

Provision of electricity transmission services to customers and operation of electricity transmission facilities. Our principal services are:

- Electricity transmission: revenue is recognised based on usage by customers (over time) and billed monthly. Payment terms are 30 days; and
- Connections: revenue is recognised over time, as we provide access to our network. Where payments are made upfront, they are deferred over the life of the asset.

#### Electricity generation

Provision of energy services and supply capacity to produce energy for the use of customers of the Long Island Power Authority (LIPA) through a power supply agreement. This falls 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.

#### (d) NGV and Other

NGV and Other includes electricity interconnectors, LNG at the Isle of Grain, Geronimo, metering, sales from our UK property business, rental income and insurance.

The Group recognises revenue from transmission services through interconnectors and LNG 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.

Other revenue in the scope of IFRS 15 principally includes revenues from our UK metering business and sales of renewables projects from Geronimo to Emerald (see note 38). Revenue is recognised as it is earned. In the case of the UK metering business, revenue is billed monthly and payment terms are up to 30 days.

Other revenue, recognised in accordance with standards other than IFRS 15, includes property sales by our UK commercial property business (including sales to our St William joint venture) 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.

#### (e) Disaggregation of revenue

In the following tables, revenue is disaggregated by primary geographical market and major service lines. The table reconciles disaggregated revenue with the Group's reportable segments (see note 2).

Revenue for the year ended 31 March 2020	UK Electricity Transmission £m	UK Gas Transmission £m	US Regulated £m	NGV and Other £m	Total £m
<i>Revenue under IFRS 15</i>					
Transmission	1,992	649	425	309	3,375
Distribution	–	–	8,319	–	8,319
System Operator	1,610	214	–	–	1,824
Other	69	15	12	296	392
Total IFRS 15 revenue	3,671	878	8,756	605	13,910
<i>Other revenue</i>					
Generation	–	–	369	–	369
Other	23	33	80	125	261
Total other revenue	23	33	449	125	630
<b>Total revenue from continuing operations</b>	<b>3,694</b>	<b>911</b>	<b>9,205</b>	<b>730</b>	<b>14,540</b>

Geographical split for the year ended 31 March 2020	UK Electricity Transmission £m	UK Gas Transmission £m	US Regulated £m	NGV and Other £m	Total £m
<i>Revenue under IFRS 15</i>					
UK	3,671	878	–	567	5,116
US	–	–	8,756	38	8,794
Total IFRS 15 revenue	3,671	878	8,756	605	13,910
<i>Other revenue</i>					
UK	23	33	–	110	166
US	–	–	449	15	464
Total other revenue	23	33	449	125	630
<b>Total revenue from continuing operations</b>	<b>3,694</b>	<b>911</b>	<b>9,205</b>	<b>730</b>	<b>14,540</b>

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 3. Revenue continued

##### (e) Disaggregation of revenue continued

Revenue for the year ended 31 March 2019	UK Electricity Transmission £m	UK Gas Transmission £m	US Regulated £m	NGV and Other £m	Total £m
<b>Revenue under IFRS 15</b>					
Transmission	1,909	661	370	313	3,253
Distribution	–	–	8,941	–	8,941
System Operator	1,416	172	–	–	1,588
Other	–	–	–	284	284
Total IFRS 15 revenue	3,325	833	9,311	597	14,066
<b>Other revenue</b>					
Generation	–	–	367	–	367
Other	6	51	168	275	500
Total other revenue	6	51	535	275	867
<b>Total revenue from continuing operations</b>	<b>3,331</b>	<b>884</b>	<b>9,846</b>	<b>872</b>	<b>14,933</b>

Geographical split for the year ended 31 March 2019	UK Electricity Transmission £m	UK Gas Transmission £m	US Regulated £m	NGV and Other £m	Total £m
<b>Revenue under IFRS 15</b>					
UK	3,325	833	–	585	4,743
US	–	–	9,311	12	9,323
Total IFRS 15 revenue	3,325	833	9,311	597	14,066
<b>Other revenue</b>					
UK	6	51	–	245	302
US	–	–	535	30	565
Total other revenue	6	51	535	275	867
<b>Total revenue from continuing operations</b>	<b>3,331</b>	<b>884</b>	<b>9,846</b>	<b>872</b>	<b>14,933</b>

Revenue to be recognised in future periods, presented as contract liabilities of £1,158 million (2019: £994 million) (see note 23), relates to contributions in aid of construction. Revenue is recognised over the life of the asset. The asset lives for connections in UK Electricity Transmission, UK Gas Transmission, NGV and US Regulated are 40 years, 36 years (to 2055), 15 years and up to 51 years respectively. The weighted average amortisation period is 18 years.

Future revenues in relation to unfulfilled performance obligations not yet received in cash amount to £3.1 billion (2019: £3.5 billion). £1.5 billion (2019: £1.6 billion) relates to connection contracts in UK Electricity Transmission which will be recognised as revenue over 29 years and £1.5 billion (2019: £1.8 billion) relates to revenues to be earned under Grain LNG contracts until 2029. The remaining amount will be recognised as revenue over 5 years.

The amount of revenue recognised for the year ended 31 March 2020 from performance obligations satisfied (or partially satisfied) in previous periods, mainly due to the changes in the estimate of the stage of completion, is £nil (2019: £nil).

#### 4. Operating 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.

	Before exceptional items and remeasurements			Exceptional items and remeasurements			Total		
	2020 £m	2019 £m	2018 £m	2020 £m	2019 £m	2018 £m	2020 £m	2019 £m	2018 £m
Depreciation, amortisation and impairment	1,640	1,588	1,530	–	147	–	1,640	1,735	1,530
Payroll costs	1,684	1,703	1,648	–	149	–	1,684	1,852	1,648
Provision for bad and doubtful debts	234	181	36	–	–	–	234	181	36
Purchases of electricity	1,318	1,504	1,299	85	(50)	(14)	1,403	1,454	1,285
Purchases of gas	1,276	1,644	1,539	40	(2)	4	1,316	1,642	1,543
Property and other taxes	1,191	1,108	1,057	–	–	–	1,191	1,108	1,057
Balancing Services Incentive Scheme	1,317	1,196	1,012	–	–	–	1,317	1,196	1,012
Payments to other UK network owners <sup>1</sup>	–	–	1,043	–	–	–	–	–	1,043
Other	2,573	2,567	2,629	402	328	(26)	2,975	2,895	2,603
	11,233	11,491	11,793	527	572	(36)	11,760	12,063	11,757
Operating costs include:									
Inventory consumed							328	415	367
Research and development expenditure							14	19	13

1. Under IFRS 15, with effect from 1 April 2018, revenue and associated payments to other UK network owners are presented on a net basis.

##### (a) Payroll costs

	2020 £m	2019 £m	2018 £m
Wages and salaries <sup>1</sup>	2,188	2,084	1,998
Social security costs	168	156	157
Defined contribution scheme costs	75	72	65
Defined benefit pension costs	135	232	156
Share-based payments	19	27	16
Severance costs (excluding pension costs)	1	76	7
	2,586	2,647	2,399
Less: payroll costs capitalised	(902)	(795)	(751)
<b>Total payroll costs</b>	<b>1,684</b>	<b>1,852</b>	<b>1,648</b>

1. Included within wages and salaries are US other post-retirement benefit costs of £45 million (2019: £48 million; 2018: £46 million). For further information refer to note 25.

##### (b) Number of employees

	31 March 2020	Monthly average 2020	31 March 2019	Monthly average 2019	31 March 2018	Monthly average 2018
UK	6,321	6,151	5,962	6,227	6,517	6,431
US	16,748	16,679	16,614	16,669	16,506	16,274
<b>Total number of employees</b>	<b>23,069</b>	<b>22,830</b>	<b>22,576</b>	<b>22,896</b>	<b>23,023</b>	<b>22,705</b>

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 4. Operating costs continued

##### (c) Key management compensation

	2020 £m	2019 £m	2018 £m
Short-term employee benefits	7	7	8
Compensation for loss of office	1	–	–
Post-employment benefits	1	1	1
Share-based payments	3	3	3
<b>Total key management compensation</b>	<b>12</b>	<b>11</b>	<b>12</b>

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 96 and those of Non-executive Directors on page 101.

##### (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:

	2020 £m	2019 £m	2018 £m
<b>Audit fees payable to the parent Company's auditors and their associates in respect of:</b>			
Audit of the parent Company's individual and consolidated financial statements <sup>1</sup>	1.9	1.6	2.7
The auditing of accounts of any associate of the Company <sup>2</sup>	8.7	8.5	9.3
Other services supplied <sup>3</sup>	6.3	5.2	3.9
	<b>16.9</b>	<b>15.3</b>	<b>15.9</b>
<b>Total other services<sup>4</sup></b>			
Tax fees:			
Tax compliance services	–	–	0.3
Tax advisory services	–	–	–
All other fees:			
Other assurance services <sup>5</sup>	0.6	1.1	0.7
Services relating to corporate finance transactions not covered above	–	–	–
Other non-audit services not covered above <sup>6</sup>	0.5	2.2	0.9
	<b>1.1</b>	<b>3.3</b>	<b>1.9</b>
<b>Total auditors' remuneration</b>	<b>18.0</b>	<b>18.6</b>	<b>17.8</b>

1. 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 2020, 2019 and 2018.

2. The 2019 comparative has been updated following finalisation of the 2019 audit fee with the Audit Committee.

3. 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 2019, 2018 and 2017 respectively.

4. There were no audit related fees as described in Item 16C(b) of Form 20-F.

5. Principally amounts relating to assurance services provided in relation to comfort letters for debt issuances.

6. In 2020, non-audit services include auction monitor work on Contracts for Difference, IT project assurance and a review of controls over our data on New York customers. In 2019 and 2018, non-audit services primarily related to the UK Property business in respect of the evaluation of possible options for the use of property assets.

The Audit 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 81 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.

## 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 'business performance' or 'adjusted profit'. Business performance (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 business performance 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 business performance.

### Exceptional items and remeasurements from continuing operations

	2020 £m	2019 £m	2018 £m
<i>Included within operating profit</i>			
Exceptional items:			
Environmental charges	(402)	–	–
Cost efficiency and restructuring programmes	–	(204)	–
Massachusetts Gas labour dispute	–	(283)	–
Impairment of nuclear connection development costs	–	(137)	–
Final settlement of LIPA MSA Transition	–	–	26
	(402)	(624)	26
Remeasurements – commodity contract derivatives	(125)	52	10
	(527)	(572)	36
<i>Included within finance income and costs</i>			
Remeasurements:			
Net gains/(losses) on financing derivatives	1	(40)	119
Net (losses)/gains on financial assets at fair value through profit and loss	(16)	15	–
Net losses on financial liabilities at fair value through profit and loss	(49)	(51)	–
	(64)	(76)	119
<i>Included within share of post-tax results of joint ventures and associates</i>			
Exceptional items:			
Deferred tax arising on the reduction in US corporation tax rate	–	–	5
Remeasurements:			
Net losses on financial instruments	(1)	–	–
<b>Total included within profit before tax</b>	<b>(592)</b>	<b>(648)</b>	<b>160</b>
<i>Included within tax</i>			
Exceptional items – credits/(debits) arising on items not included in profit before tax:			
Deferred tax arising on the reduction in the US corporation tax rate	–	–	1,510
Deferred tax arising on the reversal of the reduction in UK corporation tax rate	(192)	–	–
Tax on exceptional items	103	144	(9)
Tax on remeasurements	42	5	(28)
	(47)	149	1,473
<b>Total exceptional items and remeasurements after tax</b>	<b>(639)</b>	<b>(499)</b>	<b>1,633</b>
<i>Analysis of total exceptional items and remeasurements after tax</i>			
Exceptional items after tax	(491)	(480)	1,532
Remeasurements after tax	(148)	(19)	101
<b>Total exceptional items and remeasurements after tax</b>	<b>(639)</b>	<b>(499)</b>	<b>1,633</b>

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 5. Exceptional items and remeasurements continued

##### Exceptional items

Management uses an exceptional items framework that has been discussed and approved by the Audit 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. 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.

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.

##### 2020

We concluded that the increase in costs associated with the changes in our environmental provisions (£402 million) and the additional deferred tax charge 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 (£192 million) meet the criteria to be classified as exceptional.

A further £10 million of COVID-19 related costs incurred in the year have similarly not been classified as exceptional in view of the quantum involved and all costs associated with the settlement reached with the State of New York in respect of the Downstate New York Gas Moratorium have also been treated as part of adjusted profit.

**Environmental charges:** 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, formerly owned or operated by the Group or its predecessor companies.

The sites are subject to both State and Federal law in the US. 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. The provisions and the Group's share of estimated costs are re-evaluated at each reporting period. As a result of notices issued by governmental authorities and newly developed cost estimates prepared by third-party engineers, we have re-evaluated our estimates of total costs and cost sharing allocations borne by the Company, and accordingly have 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 is the £76 million impact of the change in the real discount rate applied to the environmental provisions across the Group, of which £66 million relates to the US and £10 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.

##### 2019

In assessing certain items of income and expenditure against our exceptional items framework, we concluded that the costs associated with the Massachusetts Gas labour dispute (£283 million), our cost efficiency and restructuring programme (£204 million) and impairments relating to two nuclear connection cancellations (£137 million) should be treated as exceptional (as described further below).

We also considered whether the £95 million income from two legal settlements received in the period should be classified as exceptional. However, we concluded it was appropriate to recognise the income in earnings before exceptional items (within NGV and Other), in line with the treatment of the original costs.

**Cost efficiency and restructuring programmes:** Our UK and US businesses incurred restructuring charges as we reviewed organisational structures, operational activities and relevant roles and responsibilities to ensure we are able to operate more efficiently and to continue to drive outperformance for customers and shareholders. The cash outflow for the year was £93 million.

**Massachusetts Gas labour dispute:** Between June 2018 and January 2019, National Grid implemented a workforce contingency plan across its Massachusetts Gas business following the expiration of contracts for the 1,250 members of the existing workforce. The net incremental cost of the experienced contractors working alongside supervisors and workers from other areas of the business was £283 million, reflecting the financial performance of the US regulated business had the workforce contingency plan not been implemented. The total cash outflow related to the labour dispute was £320 million for the year.

**Impairment of nuclear connection development costs:** In 2018, Toshiba announced the cancellation of its NuGen project to build a new nuclear power station at Moorside in Cumbria, and NuGen terminated its connection agreement with UK Electricity Transmission. In February 2019, Hitachi terminated its connection agreements in respect of its Horizon projects at Wylfa and Oldbury. As there was no realistic prospect of these schemes continuing in their present form, we concluded that it was appropriate to impair the assets we had been developing for over 10 years. After deducting cash inflows relating to termination fees received of £13 million, the net impairment charge was £137 million.

##### 2018

**Final settlement of LIPA MSA transition:** During the year, the Group reached an agreement with LIPA on an amount in final settlement of receivables and payables that arose following the cessation of the Management Services Agreement with LIPA in December 2013. The settlement resulted in a gain of £26 million, which was recorded as exceptional, consistent with the treatment of gains and losses on the original transaction.



## 5. Exceptional items and remeasurements continued

### 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). These assets and liabilities include commodity contract derivatives and financing derivatives to the extent that hedge accounting is not achieved or is not effective.

The unrealised gains or losses reported in profit and loss on certain additional assets and liabilities now 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 certain financial liabilities which we elected to designate at FVTPL. 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 business performance. 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 Geronimo (all within NGV and Other). The performance of these assets (including changes in fair value) are included in our assessment of business performance for the relevant business units.

Remeasurements excluded from business performance 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 derivative financial instruments comprise gains and losses arising on derivative financial instruments reported in the consolidated income statement in relation to 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);
- 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 comprises 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

#### 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 the reporting date have been measured using enacted tax rates and reflected in these financial statements, resulting in a £192 million deferred tax charge, principally due to the remeasurement of deferred tax liabilities. The treatment of this charge as exceptional is 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.

#### 2018

The Tax Cuts and Jobs Act (Tax Reform), which was enacted on 22 December 2017, reduced the US corporate tax rate from 35% to 21% with effect from 1 January 2018. Deferred taxes at the reporting date have been measured using these enacted tax rates. This resulted in a one-off deferred tax credit in the year ended 31 March 2018. However, as described in note 11, we expect the overall impact of Tax Reform to be economically neutral for the Group.

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 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 business performance, we adjust net financing costs to exclude any net gains or losses on financial instruments included in remeasurements (see note 5). In addition, where debt redemptions relate to exceptional transactions they are typically treated as exceptional.

The Group adopted IFRS 9 with effect from 1 April 2018. The comparatives for 2018 were not required to be restated and were accounted for in accordance with IAS 39. Following the adoption of IFRS 9, 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	2020 £m	2019 £m	2018 £m
<b>Finance income</b>				
Interest income on financial instruments:				
Bank deposits and other financial assets		48	54	54
Dividends received on equities held at fair value through other comprehensive income		2	2	–
Gains on disposal of available-for-sale investments		–	–	73
Other income		20	17	–
		70	73	127
<b>Finance costs</b>				
Net interest on pensions and other post-retirement benefit obligations	25	(23)	(22)	(65)
Interest expense on financial liabilities held at amortised cost:				
Bank loans and overdrafts		(73)	(72)	(87)
Other borrowings <sup>1</sup>		(997)	(970)	(1,030)
Interest expense on financial liabilities held at fair value through profit and loss		(22)	(20)	–
Derivatives		(39)	(43)	12
Unwinding of discount on provisions	26	(77)	(74)	(75)
Other interest		(10)	–	(11)
Less: interest capitalised <sup>2</sup>		122	135	128
		(1,119)	(1,066)	(1,128)
<b>Remeasurements – Finance income</b>				
Net (losses)/gains on financial assets held at fair value through profit and loss		(16)	15	–
		(16)	15	–
<b>Remeasurements – Finance costs</b>				
Net losses on financial liabilities held at fair value through profit and loss		(49)	(51)	–
Net (losses)/gains on financing derivatives <sup>3</sup> :				
Derivatives designated as hedges for hedge accounting		(13)	(37)	49
Derivatives not designated as hedges for hedge accounting		14	(3)	70
		(48)	(91)	119
<b>Total remeasurements – Finance income and costs</b>		(64)	(76)	119
<b>Finance income</b>		54	88	127
<b>Finance costs</b>		(1,167)	(1,157)	(1,009)
<b>Net finance costs from continuing operations</b>		(1,113)	(1,069)	(882)

1. Includes interest expense on lease liabilities (see note 13 for details).

2. Interest on funding attributable to assets in the course of construction in the current year was capitalised at a rate of 3.6% (2019: 3.9%; 2018: 4.1%). In the UK, capitalised interest qualifies for a current year tax deduction with tax relief claimed of £15 million (2019: £19 million; 2018: £20 million). In the US, capitalised interest is added to the cost of plant and qualifies for tax depreciation allowances.

3. Includes a net foreign exchange gain on financing activities of £66 million (2019: £264 million gain; 2018: £314 million loss) offset by foreign exchange losses and gains on financing derivatives measured at fair value.

## 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 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

	2020 £m	2019 £m	2018 £m
Tax before exceptional items and remeasurements	433	488	584
Exceptional tax on items not included in profit before tax (see note 5)	192	–	(1,510)
Tax on other exceptional items and remeasurements	(145)	(149)	37
Total tax reported within exceptional items and remeasurements	47	(149)	(1,473)
<b>Total tax charge/(credit) from continuing operations</b>	<b>480</b>	<b>339</b>	<b>(889)</b>

### Tax as a percentage of profit before tax

	2020 %	2019 %	2018 %
Before exceptional items and remeasurements – continuing operations	18.5	19.6	23.4
After exceptional items and remeasurements – continuing operations	27.4	18.4	(33.4)

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 7. Tax continued

The tax charge/(credit) for the year can be analysed as follows:

	2020 £m	2019 £m	2018 £m
<b>Current tax:</b>			
UK corporation tax at 19% (2019: 19%; 2018: 19%)	179	132	200
UK corporation tax adjustment in respect of prior years	(4)	(12)	(18)
	175	120	182
Overseas corporation tax	(2)	8	15
Overseas corporation tax adjustment in respect of prior years	(41)	(40)	(4)
	(43)	(32)	11
<b>Total current tax from continuing operations</b>	<b>132</b>	<b>88</b>	<b>193</b>
<b>Deferred tax:</b>			
UK deferred tax	269	27	65
UK deferred tax adjustment in respect of prior years	6	2	(2)
	275	29	63
Overseas deferred tax	64	208	(1,155)
Overseas deferred tax adjustment in respect of prior years	9	14	10
	73	222	(1,145)
<b>Total deferred tax from continuing operations</b>	<b>348</b>	<b>251</b>	<b>(1,082)</b>
<b>Total tax charge/(credit) from continuing operations</b>	<b>480</b>	<b>339</b>	<b>(889)</b>

#### Tax charged/(credited) to the consolidated statement of comprehensive income and equity

	2020 £m	2019 £m	2018 £m
<b>Current tax:</b>			
Available-for-sale investments	–	–	(11)
Cash flow hedges, cost of hedging and own credit reserve	–	3	–
Share-based payments	–	–	(3)
<b>Deferred tax:</b>			
Available-for-sale investments	–	–	(18)
Investments at fair value through other comprehensive income	(1)	–	–
Cash flow hedges, cost of hedging and own credit reserve	(40)	(12)	(4)
Remeasurements of pension assets and post-retirement benefit obligations <sup>1</sup>	(206)	12	530
Share-based payments	(3)	–	1
	(250)	3	495
Total tax recognised in the statements of comprehensive income from continuing operations	(247)	3	497
Total tax relating to share-based payments recognised directly in equity from continuing operations	(3)	–	(2)
	(250)	3	495

1. Remeasurements of gains on pension assets and post-retirement benefit obligations for the year ended 31 March 2018 includes a deferred tax charge of £281 million arising on the reduction in the US corporation tax rate.

## 7. Tax continued

The tax charge/(credit) for the year after exceptional items and remeasurements, for the continuing business, is higher (2019: lower tax charge; 2018: lower tax charge) than the standard rate of corporation tax in the UK of 19% (2019: 19%; 2018: 19%):

	Before exceptional items and remeasurements  2020 £m	After exceptional items and remeasurements  2020 £m	Before exceptional items and remeasurements  2019 £m	After exceptional items and remeasurements  2019 £m	Before exceptional items and remeasurements  2018 £m	After exceptional items and remeasurements  2018 £m
<b>Profit before tax from continuing operations</b>						
Before exceptional items and remeasurements	2,346	2,346	2,489	2,489	2,500	2,500
Exceptional items and remeasurements	–	(592)	–	(648)	–	160
<b>Profit before tax from continuing operations</b>	<b>2,346</b>	<b>1,754</b>	<b>2,489</b>	<b>1,841</b>	<b>2,500</b>	<b>2,660</b>
Profit before tax from continuing operations multiplied by UK corporation tax rate of 19% (2019: 19%; 2018: 19%)	446	334	473	350	475	506
Effect of:						
Adjustments in respect of prior years <sup>1</sup>	(30)	(30)	(36)	(36)	(22)	(14)
Expenses not deductible for tax purposes	26	29	22	28	20	21
Non-taxable income <sup>2</sup>	(18)	(18)	(36)	(36)	(16)	(26)
Adjustment in respect of foreign tax rates	53	18	78	56	153	157
Deferred tax impact of change in UK tax rate	–	192	(3)	(3)	(7)	(7)
Deferred tax impact of change in US tax rate due to Tax Reform	–	–	–	–	–	(1,510)
Adjustment in respect of post-tax profits of joint ventures and associates included within profit before tax	(17)	(17)	(8)	(8)	(8)	(9)
Other <sup>3</sup>	(27)	(28)	(2)	(12)	(11)	(7)
<b>Total tax charge/(credit) from continuing operations</b>	<b>433</b>	<b>480</b>	<b>488</b>	<b>339</b>	<b>584</b>	<b>(889)</b>
	%	%	%	%	%	%
<b>Effective tax rate – continuing operations</b>	<b>18.5</b>	<b>27.4</b>	<b>19.6</b>	<b>18.4</b>	<b>23.4</b>	<b>(33.4)</b>

1. Prior year adjustment is primarily due to agreement of prior period tax returns.

2. Includes gains on chargeable disposals which are offset by previously unrecognised capital losses.

3. Other primarily comprises a recognition of deferred tax on previously unrecognised capital losses and claims for land remediation relief.

### Factors that may affect future tax charges

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. The main UK corporation tax rate therefore remains at 19%. Deferred tax balances have been calculated at this rate.

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. We will monitor as the details become available for any that may materially impact our future tax charges.

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 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:

	Accelerated tax depreciation £m	Share- based payments £m	Pensions and other post- retirement benefits £m	Financial instruments £m	Other net temporary differences <sup>1</sup> £m	Total £m
<b>Deferred tax liabilities/(assets)</b>						
At 31 March 2018 (as previously reported)	4,874	(9)	(203)	21	(1,047)	3,636
Impact of transition to IFRS 9 and IFRS 15	19	–	–	(5)	(93)	(79)
At 1 April 2018 (as restated)	4,893	(9)	(203)	16	(1,140)	3,557
Exchange adjustments and other <sup>2</sup>	275	–	(31)	(3)	(76)	165
(Credited)/charged to income statement	309	–	52	6	(124)	243
Charged/(credited) to other comprehensive income and equity	–	–	12	(12)	–	–
At 1 April 2019	5,477	(9)	(170)	7	(1,340)	3,965
Exchange adjustments and other <sup>2</sup>	210	(30)	(28)	(3)	(27)	122
(Credited)/charged to income statement	613	(7)	44	(13)	(287)	350
Charged/(credited) to other comprehensive income and equity	–	(2)	(206)	(46)	1	(253)
<b>At 31 March 2020</b>	<b>6,300</b>	<b>(48)</b>	<b>(360)</b>	<b>(55)</b>	<b>(1,653)</b>	<b>4,184</b>

1. The deferred tax asset of £1,653 million as at 31 March 2020 (2019: £1,340 million) in respect of other net temporary differences primarily relates to net operating losses of £547 million (2019: £423 million) and US environmental provisions of £529 million (2019: £409 million).

2. Exchange adjustments and other comprises foreign exchange arising on translation of the US dollar deferred tax balances. It also includes reclassification of £29 million from other temporary differences to share-based payments.

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 £4,184 million (2019: £3,965 million). This balance is after offset of a deferred tax asset of £547 million (2019: £423 million) which has been recognised in respect of net operating losses (£535 million) and capital losses (£12 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 deferred tax asset not recognised relating to capital losses has increased due to remeasurement of opening deferred tax asset as a result of change in substantively enacted UK corporation tax rate from 17% to 19%. Hence the total deferred tax assets not recognised are as follows:

	2020 £m	2019 £m
Capital losses	1,626	1,470
Non-trade deficits	1	4
Trading losses	6	5

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 2020 and 31 March 2019, 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.

## 8. Earnings per share (EPS)

EPS is the amount of post-tax profit attributable to each ordinary share. Basic EPS is calculated on profit 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 business performance 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.

Following the sale of the UK Gas Distribution business on 31 March 2017, National Grid plc returned £3,171 million of proceeds to shareholders through a special dividend, paid on 2 June 2017. In order to maintain the comparability of the Company's share price before and after the special dividend, this was preceded by a share consolidation undertaken on 22 May 2017, replacing every 12 existing ordinary shares with 11 new ordinary shares. The weighted average number of ordinary shares outstanding for the year ended 31 March 2018 includes the effect of both the share consolidation and the special dividend from the date that the special dividend was paid. The associated share buyback programme which began on 2 June 2017 completed in March 2018. Purchased shares are held as treasury shares.

### (a) Basic EPS

	Earnings 2020 £m	EPS 2020 pence	Earnings 2019 £m	EPS 2019 pence	Earnings 2018 £m	EPS 2018 pence
Adjusted earnings from continuing operations	1,912	55.2	1,998	59.0	1,915	55.3
Exceptional items and remeasurements after tax from continuing operations	(639)	(18.4)	(499)	(14.7)	1,633	47.2
<b>Earnings from continuing operations</b>	<b>1,273</b>	<b>36.8</b>	<b>1,499</b>	<b>44.3</b>	<b>3,548</b>	<b>102.5</b>
Adjusted earnings from discontinued operations	5	0.2	57	1.7	145	4.2
Exceptional items and remeasurements after tax from discontinued operations	(14)	(0.5)	(45)	(1.4)	(143)	(4.1)
<b>Earnings from discontinued operations</b>	<b>(9)</b>	<b>(0.3)</b>	<b>12</b>	<b>0.3</b>	<b>2</b>	<b>0.1</b>
Total adjusted earnings	1,917	55.4	2,055	60.7	2,060	59.5
Total exceptional items and remeasurements after tax (including discontinued operations)	(653)	(18.9)	(544)	(16.1)	1,490	43.1
<b>Total earnings</b>	<b>1,264</b>	<b>36.5</b>	<b>1,511</b>	<b>44.6</b>	<b>3,550</b>	<b>102.6</b>
		<b>2020 millions</b>		<b>2019 millions</b>		<b>2018 millions</b>
Weighted average number of ordinary shares – basic		3,461		3,386		3,461

### (b) Diluted EPS

	Earnings 2020 £m	EPS 2020 pence	Earnings 2019 £m	EPS 2019 pence	Earnings 2018 £m	EPS 2018 pence
Adjusted earnings from continuing operations	1,912	55.0	1,998	58.8	1,915	55.1
Exceptional items and remeasurements after tax from continuing operations	(639)	(18.4)	(499)	(14.7)	1,633	47.0
<b>Earnings from continuing operations</b>	<b>1,273</b>	<b>36.6</b>	<b>1,499</b>	<b>44.1</b>	<b>3,548</b>	<b>102.1</b>
Adjusted earnings from discontinued operations	5	0.1	57	1.7	145	4.2
Exceptional items and remeasurements after tax from discontinued operations	(14)	(0.4)	(45)	(1.4)	(143)	(4.2)
<b>Earnings from discontinued operations</b>	<b>(9)</b>	<b>(0.3)</b>	<b>12</b>	<b>0.3</b>	<b>2</b>	<b>–</b>
Total adjusted earnings	1,917	55.1	2,055	60.5	2,060	59.3
Total exceptional items and remeasurements after tax (including discontinued operations)	(653)	(18.8)	(544)	(16.1)	1,490	42.8
<b>Total earnings</b>	<b>1,264</b>	<b>36.3</b>	<b>1,511</b>	<b>44.4</b>	<b>3,550</b>	<b>102.1</b>
		<b>2020 millions</b>		<b>2019 millions</b>		<b>2018 millions</b>
Weighted average number of ordinary shares – diluted		3,478		3,401		3,476



## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 8. Earnings per share (EPS) continued

##### (c) Reconciliation of basic to diluted average number of shares

	2020 millions	2019 millions	2018 millions
Weighted average number of ordinary shares – basic	3,461	3,386	3,461
Effect of dilutive potential ordinary shares – employee share plans	17	15	15
Weighted average number of ordinary shares – diluted	3,478	3,401	3,476

#### 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.

	2020			2019			2018		
	Pence per share	Cash dividend paid £m	Scrip dividend £m	Pence per share	Cash dividend paid £m	Scrip dividend £m	Pence per share	Cash dividend paid £m	Scrip dividend £m
Interim dividend in respect of the current year	16.57	335	241	16.08	450	94	15.49	346	176
Special dividend	–	–	–	–	–	–	84.375	3,171	–
Final dividend in respect of the prior year	31.26	557	517	30.44	710	319	29.10	970	33
	47.83	892	758	46.52	1,160	413	128.965	4,487	209

The Directors are proposing a final dividend for the year ended 31 March 2020 of 32.0p per share that will absorb approximately £1,123 million of shareholders' equity (assuming all amounts are settled in cash). It will be paid on 19 August 2020 to shareholders who are on the register of members at 3 July 2020 (subject to shareholders' approval at the AGM). A scrip dividend will be offered as an alternative.

Following completion of the sale of the majority interest in UK Gas Distribution, the Company paid a special dividend on 2 June 2017 of 84.375p per existing ordinary share (\$5.4224 per existing American Depositary Share). This returned £3,171 million to shareholders. No scrip dividend was offered as an alternative.

#### 10. Discontinued operations and assets held for sale

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.

In June 2019, the Group sold its remaining 39% interest in Cadent (held through its holding in Quadgas HoldCo Limited (Quadgas)). This interest had been classified as held for sale from 30 June 2018 until the date of disposal, as detailed in the Annual Report and Accounts for the year ended 31 March 2019.

The aggregate carrying value of our investment in Quadgas at the disposal date was £1,956 million. This was comprised of the carrying value of the Group's equity interest in Quadgas of £1,494 million, a shareholder loan to Quadgas of £352 million and a derivative financial asset with a fair value of £110 million. The total sales proceeds were £1,965 million. The gain on disposal was £9 million.

#### 10. Discontinued operations and assets held for sale continued

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. As a consequence, we have classified the various elements of income, expense and cash flows within discontinued operations as set out below. Once the assets are treated as 'held for sale', equity accounting ceases for our investment in our associate. We therefore ceased to record our share of profits from 30 June 2018.

The summary income statement for discontinued operations is as follows:

	2020 £m	2019 £m	2018 £m
<b>Revenue</b>	–	–	–
Operating costs <sup>1</sup>	(23)	(1)	(41)
<b>Operating loss</b>	(23)	(1)	(41)
Net finance income	6	23	137
Share of post-tax results of joint ventures and associates <sup>2</sup>	–	(5)	(89)
<b>(Loss)/profit before tax from discontinued operations</b>	(17)	17	7
Tax from discontinued operations	(1)	(5)	(5)
<b>(Loss)/profit after tax from discontinued operations</b>	(18)	12	2
Gain on disposal	9	–	–
<b>Total (loss)/profit after tax from discontinued operations<sup>3</sup></b>	(9)	12	2

- Operating costs for the year ended 31 March 2020 relate to final transaction costs and other expenses in relation to Quadgas. Operating costs of £41 million for the year ended 31 March 2018 related to amounts in respect of the disposal of the UK Gas Distribution business, primarily relating to the completion accounts settlement in November 2017.
- For the year ended 31 March 2019, the amount presented is the net of £43 million impairment charge against the investment in Quadgas (see note 16) and £38 million share of Quadgas post-tax profits recognised prior to classification as held for sale.
- Of the total profit after tax from discontinued operations, the £23 million of operating expenses and the £9 million gain on disposal are treated as exceptional. For the year ended 31 March 2019, the £43 million impairment charge against the investment in Quadgas, net operating costs of £1 million and the tax thereon are classified as exceptional items.

The summary statement of comprehensive income for discontinued operations is as follows:

	2020 £m	2019 £m	2018 £m
<b>(Loss)/profit after tax from discontinued operations</b>	(9)	12	2
<b>Other comprehensive income</b>			
Items that will never be reclassified to profit or loss:			
Share of other comprehensive income of associate, net of tax	–	36	142
<b>Total items from discontinued operations that will never be reclassified to profit or loss</b>	–	36	142
Items that may be reclassified subsequently to profit or loss:			
Net gains in respect of cash flow hedges	6	–	–
Share of other comprehensive income of associate, net of tax	–	–	5
<b>Total items from discontinued operations that may be reclassified subsequently to profit or loss</b>	6	–	5
<b>Other comprehensive income for the year, net of tax from discontinued operations</b>	6	36	147
<b>Total comprehensive (loss)/income for the year from discontinued operations</b>	(3)	48	149

The summary cash flows for discontinued operations are as follows:

Cash flows used in operating activities of £97 million (2019: £71 million; 2018: £207 million) primarily related to cash outflows in respect of voluntary contributions totalling £66 million paid to the Warm Homes Fund, the utilisation of provisions and the payment of the final transaction fees incurred in the period. The utilisation of provisions in 2018 mainly related to payments of professional fees in respect of the disposal of the UK Gas Distribution business.

Cash inflows from investing activities of £6 million (2019: £156 million; 2018: £171 million) were comprised of dividends received and interest received on the shareholder loan.

There were no cash flows for financing activities in 2020 or 2019. In 2018, net cash flows used in financing activities were £231 million for the settlement of RPI swaps relating to the final stages of the Group-wide liability management programme executed as part of sale process of the UK Gas Distribution business.

## Notes to the consolidated financial statements

### – analysis of items in the primary 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 each year by performing an impairment review.

Goodwill is recognised as an asset and is not amortised, but is tested for impairment annually or more frequently if events or changes in circumstances indicate a potential impairment. Any impairment is recognised immediately in the income statement and is not subsequently reversed.

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 and this allocation is made to those cash-generating units that are expected to benefit from the business combination in which the goodwill arose.

Impairment is recognised where there is a difference between the carrying value of the cash-generating unit and the estimated recoverable amount of the cash-generating unit to which that goodwill has been allocated. Any impairment loss is first allocated to the carrying value of the goodwill and then to the other assets within the cash-generating unit. 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.

Impairments are recognised in the income statement and are disclosed separately.

	Total £m
Net book value at 1 April 2018	5,444
Exchange adjustments	425
Net book value at 31 March 2019	5,869
Additions	81
Exchange adjustments	283
<b>Net book value at 31 March 2020</b>	<b>6,233</b>

Additions in the period relate to the goodwill recognised on the acquisition of Geronimo. Refer to note 38 for details.

There is no significant accumulated impairment charge as at 31 March 2020 or 31 March 2019.

The amounts disclosed above as at 31 March 2020 relate to the following cash-generating units: New York £3,544 million (2019: £3,382 million); Massachusetts £1,325 million (2019: £1,264 million); Rhode Island £493 million (2019: £470 million); Federal £790 million (2019: £753 million); and Geronimo £81 million (2019: Nil).

Goodwill is reviewed annually for impairment and the recoverability of goodwill has been assessed by comparing the carrying amount of our operations described above (our cash-generating units) with the expected recoverable amount on a value-in-use basis. In each assessment, the value-in-use has been calculated based on five-year plan projections that incorporate our best estimates of future cash flows, customer rates, costs (including changes in commodity prices), future prices and growth. Such projections reflect our current regulatory rate plans taking into account regulatory arrangements to allow for future rate plan filings and recovery of investment. Our plans have proved to be reliable guides in the past and the Directors believe the estimates are appropriate.

The future economic growth rate used to extrapolate projections beyond five years is 2.1% (2019: 2.2%). The growth rate has been determined having regard to data on projected growth in US real gross domestic product (GDP). Based on the position of our business in the underlying US economy, it is appropriate for the terminal growth rate to be based upon the overall growth in real GDP and, given the nature of our operations, to extend over a long period of time. Cash flow projections have been discounted to reflect the time value of money, using a post-tax discount rate of 4.5% (2019: 5.3%). The equivalent pre-tax discount rate is 4.5% (2019: 5.3%) as tax is assumed to be a pass-through cost to our customers, recoverable under our rate plans. The discount rate represents the estimated weighted average cost of capital of these operations.

In reaching this conclusion, the Directors considered the manner in which Tax Reform has impacted the Group and its future cash flows. In our US business, we are subject to federal and state taxes; however, our regulatory arrangements require us to pass this cost back to our customers. The reduction in the corporation tax rate in 2018 from 35% to 21% is being reflected through lower bills to customers, reducing our revenues (and tax costs) in future periods. For the purposes of the goodwill impairment exercise, we have reflected the lower billing levels through lower revenue forecasts as well as lower tax charges.

Historically, as a result of tax losses arising from claiming accelerated depreciation allowances, we have not paid substantial amounts of tax in the US. Accordingly, for IFRS purposes, we have recognised significant deferred tax liabilities in respect of these accelerated allowances. In accounting terms, Tax Reform triggered the remeasurement of our deferred tax liabilities from 35% to 21% for the year ended 31 March 2018. However, the impact for our US business is that the amounts we have previously received from customers assuming a 35% federal tax rate instead of a 21% federal tax rate must now be returned to customers over a period of up to 50 years. Offsetting this change is the additional income we earn, since the rate base grows faster. (Our rate base is net of deferred tax liabilities, which, as a result of Tax Reform, is now smaller.) In overall terms, the outcome is economically neutral.

In assessing the carrying value of goodwill, we have sensitised our forecasts to factor in a reduction in revenues and lower tax costs into our cash flow forecasts, but we have not reflected the impact of additional rate base growth on future earnings. 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, the most significant of which is an increase in bad debt charges in the short-term.

## 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.

Identifiable intangible assets are recorded at cost less accumulated amortisation and any provision for impairment. 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 cash-generating unit to which that asset belongs is estimated. Impairments are recognised in the consolidated income statement and are disclosed separately. Any assets which suffered impairment in a previous period are reviewed for possible reversal of the impairment at each reporting date.

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.

Other intangible assets are amortised on a straight-line basis over their estimated useful economic lives. Amortisation periods for intangible assets are:

	Years
Software	1 to 10

	Software £m
Cost at 1 April 2018	1,797
Exchange adjustments	70
Additions	306
Disposals	(15)
Reclassifications <sup>1</sup>	10
Cost at 31 March 2019	2,168
Exchange adjustments	63
Additions	352
Disposals	–
Reclassifications <sup>1</sup>	–
Cost at 31 March 2020	2,583
Accumulated amortisation at 1 April 2018	(898)
Exchange adjustments	(26)
Amortisation charge for the year	(175)
Accumulated amortisation of disposals	15
Accumulated amortisation at 31 March 2019	(1,084)
Exchange adjustments	(28)
Amortisation charge for the year	(176)
Accumulated amortisation of disposals	–
Accumulated amortisation at 31 March 2020	(1,288)
<b>Net book value at 31 March 2020<sup>2</sup></b>	<b>1,295</b>
Net book value at 31 March 2019	1,084

1. Reclassifications includes amounts transferred from property, plant and equipment (see note 13).

2. Included in software is £69 million (2019: £116 million) relating to the US Enterprise Resource Planning system, which still has a remaining amortisation period of three years.

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 13. Property, plant and equipment

The following note shows the physical assets controlled by us. The cost of these assets primarily represents the amount initially paid for them. This 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; 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. 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 by the net book value of that class of asset).

	Years		Weighted average remaining UEL
	UK	US	
Freehold and leasehold buildings	up to 60	up to 100	26
Plant and machinery:			
Electricity transmission plant and wires	10 to 100	45 to 80	40
Electricity distribution plant	n/a	35 to 85	37
Electricity generation plant	15 to 40	20 to 93	21
Interconnector plant and other	5 to 60	8 to 50	23
Gas plant – mains, services and regulating equipment	10 to 65	47 to 95	49
Gas plant – storage	5 to 40	12 to 65	13
Gas plant – meters	7 to 30	14 to 65	18
Motor vehicles and office equipment	up to 10	up to 26	5

#### 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.

- In the UK, the gas mains, services and regulating assets relating to the National Transmission System (NTS) were subject to a detailed review in January 2019. The most material components of these are our pipeline assets, which are due to be fully depreciated by 2070, with other assets being depreciated over various periods between now and then. That review was undertaken prior to the UK enacting legislation committing to net zero by 2050, but considered scenarios which included an extension of the emissions reduction targets (80% emissions reduction target at the time of the report). The review concluded that the most likely outcome was for the NTS network assets to remain in use beyond 2050, including in those scenarios where the greenhouse gas emissions of gas networks were largely eliminated.

We do not believe developments since January 2019 would change the conclusions of this review.

- 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 50 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.
- Asset depreciation lives feed directly into our regulatory recovery mechanisms, such that any shortening of asset 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.

### 13. Property, plant and equipment continued

Given the uncertainty described relating to the UELs of our gas assets, below we provide a sensitivity on the depreciation charge for our UK and US regulated segments were a shorter UEL presumed:

	Increase in depreciation expense	
	UK regulated £m	US regulated £m
UELs limited to 2050	37	151
UELs limited to 2060	13	66
UELs limited to 2070	–	26

Note that this sensitivity calculation excludes any assumptions regarding residual value for our asset base and the effect shortening asset depreciation lives would expect to have on our regulatory recovery mechanisms.

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.

	Land and buildings £m	Plant and machinery £m	Assets in the course of construction <sup>1</sup> £m	Motor vehicles and office equipment £m	Total £m
Cost at 1 April 2018	2,930	49,374	4,273	857	57,434
Exchange adjustments	114	2,001	70	47	2,232
Additions	34	391	3,533	57	4,015
Disposals	(35)	(357)	(159)	(44)	(595)
Reclassifications <sup>2</sup>	295	2,974	(3,292)	13	(10)
Cost at 1 April 2019 (as previously reported)	3,338	54,383	4,425	930	63,076
Right-of-use assets recognised on transition to IFRS 16 <sup>3</sup>	381	67	–	20	468
Cost at 1 April 2019 (as restated)	3,719	54,450	4,425	950	63,544
Exchange adjustments	98	1,511	53	33	1,695
Additions	130	464	4,029	104	4,727
Disposals	(79)	(486)	(9)	(65)	(639)
Reclassifications <sup>2,4</sup>	29	4,303	(4,433)	14	(87)
Cost at 31 March 2020	3,897	60,242	4,065	1,036	69,240
Accumulated depreciation at 1 April 2018	(674)	(16,398)	–	(509)	(17,581)
Exchange adjustments	(19)	(501)	–	(25)	(545)
Depreciation charge for the year	(93)	(1,229)	(150)	(101)	(1,573)
Disposals	7	335	150	44	536
Reclassifications <sup>2</sup>	1	(1)	–	–	–
Accumulated depreciation at 1 April 2019	(778)	(17,794)	–	(591)	(19,163)
Exchange adjustments	(16)	(372)	–	(20)	(408)
Depreciation charge for the year	(92)	(1,252)	–	(120)	(1,464)
Disposals	36	464	–	58	558
Reclassifications <sup>2</sup>	3	(7)	–	11	7
Accumulated depreciation at 31 March 2020	(847)	(18,961)	–	(662)	(20,470)
<b>Net book value at 31 March 2020</b>	<b>3,050</b>	<b>41,281</b>	<b>4,065</b>	<b>374</b>	<b>48,770</b>
Net book value at 31 March 2019	2,560	36,589	4,425	339	43,913

1. In 2019, included within disposals are UK nuclear connections development costs of £150 million (before £13 million of termination income) which were written off. See note 5 for further details.

2. Represents amounts transferred between categories, (to)/from other intangible assets (see note 12), reclassifications from inventories and reclassifications between cost and accumulated depreciation.

3. £468 million of additional right-of-use assets were recognised on transition to IFRS 16 on 1 April 2019. See note 37 for details.

4. Comprises an £87 million reduction in gross cost of assets in the course of construction in our UK Electricity Transmission business for costs previously capitalised and accrued as due to a supplier that are no longer payable.

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 13. Property, plant and equipment continued

##### Right-of-use assets

The Group leases various properties, land, equipment and cars. With effect from 1 April 2019, 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 (see note 37). 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, plus any other costs. 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. 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.

Included within the net book value of property, plant and equipment at 31 March 2020 are right-of-use assets, split as follows:

	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 31 March 2020	364	95	–	225	684
Additions	10	1	–	73	84
Depreciation charge for the year ended 31 March 2020	(29)	(16)	–	(72)	(117)

The following balances have been included in the income statement for the year ended 31 March 2020 in respect of right-of-use assets:

	Total £m
<i>Included within net finance income and costs:</i>	
Interest expense on lease liabilities	(26)
<i>Included within revenue:</i>	
Lease income	35
<i>Included within operating expenses:</i>	
Expenses relating to low-value leases	(12)

The associated lease liabilities are disclosed in note 21.

The total of future minimum sub lease payments expected to be received under non-cancellable sub leases is £94 million (2019: £86 million).

	2020 £m	2019 £m
<i>Information in relation to property, plant and equipment</i>		
Capitalised interest included within cost	2,118	1,995
Contributions to cost of property, plant and equipment included within:		
Trade and other payables	84	87
Non-current liabilities	428	372
Contract liabilities – current	76	61
Contract liabilities – non-current	1,082	933

#### 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 2021.

	2020 £m	2019 £m
Other receivables	35	28
Non-current tax assets	65	56
Prepayments	19	7
Accrued income <sup>1</sup>	235	173
	354	264

1. Includes accrued income in relation to property sales to the St William joint venture.



## 15. Financial and other investments

The Group holds a range of financial and other investments. These investments include short-term money funds, quoted investments in equities or bonds of other companies, long-term loans to our joint ventures, investments in our venture capital portfolio (National Grid Partners), bank deposits with a maturity of greater than three months, and cash balances that cannot be readily used in operations, principally collateral pledged against derivative holdings.

The Group has reported four categories of financial investments, and the classification for each investment is dependent on its contractual cash flows and the business model it is held under and recognised on trade date.

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 long-term loans to joint ventures as well as receivables in relation to deposits and collateral.

Debt investments 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. On disposal, any realised gains or losses are recycled to the income statement in investment income (see note 6). Other investments include insurance contracts, measured at fair value, and held to back the present value of unfunded obligations in note 25.

The Group has elected to measure equity instruments at fair value through other comprehensive income that are shares held as part of a portfolio of financial instruments which back some long-term employee liabilities. They are not held for trading and so recognising gains and losses on these investments in profit and loss would not be representative of performance in the year. On disposal, any realised gains and losses are transferred to retained profits (see note 28).

Other financial investments are subsequently measured at fair value through profit and loss. 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. The techniques use observable market data to the extent available.

	2020 £m	2019 £m
<b>Non-current</b>		
Debt and other investments at fair value through other comprehensive income	352	343
Equity investments at fair value through other comprehensive income	83	93
Investments at fair value through profit and loss	108	62
Loans to joint ventures <sup>1</sup>	–	169
	<b>543</b>	<b>667</b>
<b>Current</b>		
Investments at fair value through profit and loss	1,278	1,311
Financial assets at amortised cost	720	670
	<b>1,998</b>	<b>1,981</b>
	<b>2,541</b>	<b>2,648</b>
Financial and other investments include the following:		
Investments in short-term money funds <sup>2</sup>	978	969
Insurance company fund investments <sup>3</sup>	300	342
Equities <sup>4</sup>	83	93
Bonds <sup>4</sup>	132	122
Cash surrender value of life insurance policies <sup>4</sup>	220	221
Loans to joint ventures	–	169
National Grid Partners and other investments <sup>5</sup>	108	62
Restricted balances:		
Collateral <sup>6</sup>	685	637
Other	35	33
	<b>2,541</b>	<b>2,648</b>

1. As at 31 March 2019, this related to a loan to a joint venture, which was measured at amortised cost.

2. Includes £1 million (2019: £6 million) held as insurance company fund investments and £26 million (2019: £22 million) US non-qualified plan investments, and therefore restricted.

3. Includes restricted amounts of £300 million (2019: £342 million) held as insurance company fund investments.

4. Includes restricted amounts of £435 million (2019: £436 million) relating to US non-qualified plan investments.

5. This includes a series of small unquoted equity investments held by National Grid Partners of £97 million (2019: £51 million).

6. Refers to collateral placed with counterparties with whom we have entered into a credit support annex to the ISDA (International Swaps and Derivatives Association) Master Agreement.

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 15. Financial and other investments continued

Fair value through profit and loss and fair value through other comprehensive income 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 carrying value of the non-current loans to joint ventures approximates their fair values as at 31 March 2019. 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 managed with an investment remit to hold 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 fair value through other comprehensive income or amortised cost are therefore considered to have low credit risk and have a 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 fair value through other comprehensive income 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 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.

	2020			2019		
	Associates £m	Joint ventures £m	Total £m	Associates £m	Joint ventures £m	Total £m
Share of net assets at 1 April	291	317	608	1,807	361	2,168
Exchange adjustments	20	12	32	17	(6)	11
Additions	16	156	172	58	85	143
Capitalisation of shareholder loan to Nemo Link Limited	–	176	176	–	–	–
Impairment charge against investment in Quadgas	–	–	–	(43)	–	(43)
Transfer of interest in Quadgas to assets held for sale	–	–	–	(1,625)	–	(1,625)
Share of post-tax results for the year	40	47	87	67	11	78
Share of other comprehensive income of associates, net of tax	1	–	1	37	–	37
Dividends received	(41)	(34)	(75)	(38)	(30)	(68)
Other movements <sup>1</sup>	14	(20)	(6)	11	(104)	(93)
<b>Share of net assets at 31 March</b>	<b>341</b>	<b>654</b>	<b>995</b>	<b>291</b>	<b>317</b>	<b>608</b>

1. Other movements on joint ventures relate to reducing the carrying value of the investment in St William Homes LLP to reflect deferred income we expect to recognise over the next 10 years.

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 £240 million (2019: £18 million) in relation to joint ventures.

#### 16. Investments in joint ventures and associates continued

At 31 March 2020, the Group had three material joint ventures, being its 50% equity stakes in BritNed and Nemo Link Limited (Nemo) and its 51% stake in Emerald Energy Venture LLC (Emerald). The Group has one material associate, being its 26.25% investment in Millennium Pipeline Company LLC. 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 is a joint venture with the Belgian transmission operator, Elia, and is a subsea electricity interconnector between the UK and Belgium, which became operational on 31 January 2019. BritNed and Nemo have reporting periods ending on 31 December with monthly management reporting information provided to National Grid. 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. Millennium Pipeline Company LLC is an associate that owns a natural gas pipeline from southern New York to the Lower Hudson Valley. Summarised financial information as at 31 March, together with the carrying amount of the investments, is as follows:

	BritNed Development Limited		Millennium Pipeline Company LLC		Nemo Link Limited		Emerald Energy Venture LLC
	2020 £m	2019 £m	2020 £m	2019 £m	2020 £m	2019 £m	2020 £m
<b>Statement of financial position</b>							
Non-current assets	399	370	971	937	582	537	435
Cash and cash equivalents	54	59	33	35	26	47	66
All other current assets	4	2	26	22	5	3	6
Non-current liabilities	(45)	(11)	(315)	(326)	(29)	2	(232)
Current liabilities	(16)	(28)	(43)	(84)	(10)	(375)	(2)
<b>Net assets</b>	<b>396</b>	<b>392</b>	<b>672</b>	<b>584</b>	<b>574</b>	<b>214</b>	<b>273</b>
Group's ownership interest in joint venture/associate	198	196	176	153	287	107	139
Group adjustment: elimination of profits on sales to joint venture	–	–	–	–	–	–	(10)
<b>Carrying amount of the Group's investment</b>	<b>198</b>	<b>196</b>	<b>176</b>	<b>153</b>	<b>287</b>	<b>107</b>	<b>129</b>

	BritNed Development Limited		Millennium Pipeline Company LLC		Nemo Link Limited		Emerald Energy Venture LLC
	2020 £m	2019 £m	2020 £m	2019 £m	2020 £m	2019 £m	2020 £m
<b>Income statement</b>							
Revenue	80	87	206	166	45	12	19
Depreciation and amortisation	(14)	(13)	(46)	(34)	(23)	(4)	(7)
Other costs	(10)	(10)	(20)	(24)	(8)	(4)	(10)
<b>Operating profit</b>	<b>56</b>	<b>64</b>	<b>140</b>	<b>108</b>	<b>14</b>	<b>4</b>	<b>2</b>
Net interest expense	–	–	(22)	(11)	–	–	(3)
<b>Profit before tax</b>	<b>56</b>	<b>64</b>	<b>118</b>	<b>97</b>	<b>14</b>	<b>4</b>	<b>(1)</b>
Income tax expense	(10)	(10)	–	–	(2)	–	–
<b>Profit for the year</b>	<b>46</b>	<b>54</b>	<b>118</b>	<b>97</b>	<b>12</b>	<b>4</b>	<b>(1)</b>
Group's share of profit/(loss)	23	27	31	25	6	2	(1)
Group adjustment: Tax charge	–	–	(9)	–	–	–	–
<b>Group's share of post-tax results for the year</b>	<b>23</b>	<b>27</b>	<b>22</b>	<b>25</b>	<b>6</b>	<b>2</b>	<b>(1)</b>

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 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 managing 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 managing our US customers' exposure to price and supply risks. Some forward contracts for the purchase of commodities meet the definition of derivatives and are included here. We also enter into derivative financial instruments linked to commodity prices, including index futures, options and swaps. These 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 as required by IFRS 9. 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.

We calculate the fair value of derivative financial instruments 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:

	2020			2019		
	Assets £m	Liabilities £m	Total £m	Assets £m	Liabilities £m	Total £m
Financing derivatives	1,267	(1,134)	133	1,052	(1,084)	(32)
Commodity contract derivatives	75	(200)	(125)	101	(99)	2
	1,342	(1,334)	8	1,153	(1,183)	(30)

#### (a) Financing derivatives

The fair values of financing derivatives by type are as follows:

	2020			2019		
	Assets £m	Liabilities £m	Total £m	Assets £m	Liabilities £m	Total £m
Interest rate swaps	556	(337)	219	539	(384)	155
Cross-currency interest rate swaps	643	(514)	129	470	(443)	27
Foreign exchange forward contracts <sup>1</sup>	58	(39)	19	41	(41)	–
Inflation-linked swaps	–	(234)	(234)	–	(214)	(214)
Equity options	10	(10)	–	2	(2)	–
	1,267	(1,134)	133	1,052	(1,084)	(32)

1. Included within the foreign exchange forward contracts balance is £(3) million (2019: £32 million) of derivatives in relation to hedging of capital expenditure.

## 17. Derivative financial instruments continued

### (a) Financing derivatives continued

The maturity profile of financing derivatives is as follows:

	2020			2019		
	Assets £m	Liabilities £m	Total £m	Assets £m	Liabilities £m	Total £m
<i>Current</i>						
Less than 1 year	62	(254)	(192)	56	(282)	(226)
	62	(254)	(192)	56	(282)	(226)
<i>Non-current</i>						
In 1 to 2 years	480	(51)	429	19	(193)	(174)
In 2 to 3 years	13	(5)	8	416	(1)	415
In 3 to 4 years	20	(28)	(8)	11	–	11
In 4 to 5 years	31	(109)	(78)	20	(14)	6
More than 5 years	661	(687)	(26)	530	(594)	(64)
	1,205	(880)	325	996	(802)	194
	1,267	(1,134)	133	1,052	(1,084)	(32)

The notional contract<sup>1</sup> amounts of financing derivatives by type are as follows:

	2020 £m	2019 £m
Interest rate swaps	(3,101)	(6,299)
Cross-currency interest rate swaps	(8,097)	(6,700)
Foreign exchange forward contracts	(3,284)	(2,937)
Inflation-linked swaps	(500)	(500)
Equity options	(800)	(800)
	(15,782)	(17,236)

1. The notional contract amounts of derivatives indicate the gross nominal value of transactions outstanding at the reporting date.

### (b) Commodity contract derivatives

The fair values of commodity contract derivatives by type are as follows:

	2020			2019		
	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	64	(108)	(44)	66	(78)	(12)
<i>Derivative financial instruments linked to commodity prices</i>						
Electricity swaps	4	(83)	(79)	29	(19)	10
Gas swaps	7	(8)	(1)	5	(1)	4
Gas options	–	(1)	(1)	1	(1)	–
	75	(200)	(125)	101	(99)	2

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 17. Derivative financial instruments continued

##### (b) Commodity contract derivatives continued

The maturity profile of commodity contract derivatives is as follows:

	2020			2019		
	Assets £m	Liabilities £m	Total £m	Assets £m	Liabilities £m	Total £m
<b>Current</b>						
Less than one year	31	(126)	(95)	52	(68)	(16)
	31	(126)	(95)	52	(68)	(16)
<b>Non-current</b>						
In 1 to 2 years	8	(35)	(27)	14	(9)	5
In 2 to 3 years	9	(24)	(15)	9	(8)	1
In 3 to 4 years	8	(12)	(4)	6	(4)	2
In 4 to 5 years	7	(1)	6	6	(4)	2
More than 5 years	12	(2)	10	14	(6)	8
	44	(74)	(30)	49	(31)	18
	75	(200)	(125)	101	(99)	2

The notional quantities of commodity contract derivatives by type are as follows:

	2020	2019
Forward purchases of gas <sup>1</sup>	102m Dth	52m Dth
Electricity swaps	12,836 GWh	12,848 GWh
Electricity options	0 GWh	10,444 GWh
Gas swaps	89m Dth	87m Dth
Gas options	26m Dth	34m Dth

1. Forward gas purchases have terms up to four years (2019: two years). The contractual obligations under these contracts are £128 million (2019: £108 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, and 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.

	2020 £m	2019 £m
Fuel stocks	151	99
Raw materials and consumables	265	184
Current intangible assets – emission allowances	133	87
	549	370

There is a provision for obsolescence of £21 million against inventories as at 31 March 2020 (2019: £20 million).

## 19. Trade and other receivables

Trade and other receivables are amounts which are due from our customers for services we have provided.

Trade and other receivables are initially recognised at fair value and subsequently measured at amortised cost, less any appropriate allowances for estimated irrecoverable amounts.

	2020 £m	2019 £m
Trade receivables	1,551	1,899
Accrued income	869	883
Prepayments	408	237
Other receivables	158	134
	<b>2,986</b>	<b>3,153</b>

Trade receivables are non-interest-bearing and generally have a 30 to 90 days term. Due to their short maturities, the fair value of trade and other receivables approximates their carrying value. The maximum exposure of trade receivables to credit risk is the gross carrying amount of £2,063 million (2019: £2,293 million).

### 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.

	2020 £m	2019 £m
At 1 April	394	309
Exchange adjustments	20	24
Charge for the year, net of recoveries	234	181
Uncollectible amounts written off	(136)	(120)
<b>At 31 March</b>	<b>512</b>	<b>394</b>

The trade receivables balance, accrued income balance and provisions balance split by geography is as follows:

	As at 31 March 2020			As at 31 March 2019		
	UK £m	US £m	Total £m	UK £m	US £m	Total £m
Trade receivables	227	1,836	2,063	313	1,980	2,293
Accrued income	461	408	869	445	438	883
Provision for impairment of trade receivables	(40)	(472)	(512)	(40)	(354)	(394)

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, £1,806 million (2019: £1,885 million) of the trade receivables and unbilled revenue 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 resulted 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. The Group has also ceased customer termination activities as requested by relevant local authorities. In addition, we have considered the macroeconomic data including unemployment levels and our previous experience regarding debtor recoverability during and in the aftermath of the 2008/09 financial crisis (which impacted all of our service territories) and that following Superstorm Sandy in 2012 which impacted our downstate New York gas business specifically.

Based on our review of these factors, we concluded that a reasonable range for the additional provision recognised in light of the cessation of customer terminations and collections following the moratoriums introduced would lie between £81 million and £161 million (\$100 million and \$200 million). We concluded an additional charge of £117 million represented our best estimate based on the information available, primarily as this represented an impact twice as severe as Superstorm Sandy, adjusted to incorporate all service territories impacted.



## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 19. Trade and other receivables continued

The average expected loss rates and gross balances for the retail customer receivables in our US operations are set out below:

	2020 %	2020 £m	2019 %	2019 £m
Unbilled revenue	5	395	–	420
0 – 30 days	5	623	3	736
30 – 60 days	14	184	12	194
60 – 90 days	29	105	20	89
3 – 6 months	47	119	30	109
6 – 12 months	63	104	39	99
Over 12 months	79	276	68	238
		1,806		1,885

The year-on-year movements in average expected loss rates are driven primarily as a result of the moratoriums on cash collection and termination activities outlined above.

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.

Net 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).

	2020 £m	2019 £m
Cash at bank	73	177
Short-term deposits	–	75
<b>Cash and cash equivalents</b>	<b>73</b>	<b>252</b>

## 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 RPI. We use derivatives to manage risks associated with interest rates and foreign exchange.

Our price controls and rate plans lead us to fund our networks within a certain ratio of debt to equity 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 accounted for at amortised cost, with the exception of one liability measured at fair value through profit and loss, in order to eliminate a measurement mismatch.

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 (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).

	2020 £m	2019 £m
<b>Current</b>		
Bank loans	1,244	641
Bonds	1,446	1,973
Commercial paper	1,269	1,792
Lease liabilities	112	65
Other loans	1	1
	<b>4,072</b>	<b>4,472</b>
<b>Non-current</b>		
Bank loans	2,819	2,599
Bonds <sup>1</sup>	23,094	21,278
Lease liabilities	623	205
Other loans	186	176
	<b>26,722</b>	<b>24,258</b>
<b>Total borrowings</b>	<b>30,794</b>	<b>28,730</b>

1. Includes a liability held at fair value through profit and loss of £741 million (2019: £667 million).

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 21. Borrowings continued

Total borrowings are repayable as follows:

	2020 £m	2019 £m
Less than 1 year	4,072	4,472
In 1 to 2 years	2,212	2,393
In 2 to 3 years	1,664	1,990
In 3 to 4 years	757	1,553
In 4 to 5 years	2,122	714
More than 5 years:		
By instalments	870	959
Other than by instalments	19,097	16,649
	30,794	28,730

The fair value of borrowings at 31 March 2020 was £34,174 million (2019: £32,252 million). Where market values were available, fair value of borrowings (Level 1) was £14,059 million (2019: £14,356 million). Where market values were not available, fair value of borrowings (Level 2) was £20,115 million (2019: £17,896 million), calculated by discounting cash flows at prevailing interest rates. The notional amount outstanding of the debt portfolio at 31 March 2020 was £30,422 million (2019: £28,417 million).

In April 2020, National Grid Electricity Transmission plc issued a £0.4 billion fixed interest rate bond from the NGET EMTN programme with a 20-year tenor and The Narragansett Electric Company issued a \$0.6 billion (£0.5 billion) fixed interest rate bond with a 10-year tenor. Both issuances are part of the continued Group funding arrangements.

During the year, the assets of the Colonial Gas Company were merged with the Boston Gas Company, and have been ringfenced post-merger, and certain gas distribution assets of The Narragansett Electric Company are subject to liens and other charges and are provided as collateral over borrowings totalling £84 million at 31 March 2020 (2019: £81 million).

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 £785 million (2019: £558 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.

#### Financial liability at fair value through profit and loss

The financial liability designated at fair value through profit and loss is analysed as follows:

- the fair value of the liability was £741 million (2019: £667 million), which includes cumulative change in fair value attributable to changes in credit risk recognised in other comprehensive income, post tax of £10 million (2019: £13 million);
- the amount repayable at maturity in November 2021 is £759 million (2019: £724 million); and
- the difference between carrying amount and contractual amount at maturity is £18 million (2019: £57 million).

This liability has been reclassified in order to eliminate a measurement mismatch with derivatives which provide an economic hedge. The associated derivatives are collateralised and do not contain significant exposure to our own credit risk. The presentation of credit risk in other comprehensive income does 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 is 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.

## 21. Borrowings continued

### Lease liabilities

The Group adopted IFRS 16 on 1 April 2019, which resulted in the recognition of £474 million of additional lease liabilities. As we applied the modified retrospective approach to transition, comparatives were not restated. Refer to note 37 for details.

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.

	2020 £m	2019 £m
Gross lease liabilities are repayable as follows:		
Less than 1 year	132	65
1 to 5 years	361	183
More than 5 years	481	62
	974	310
Less: finance charges allocated to future periods	(239)	(40)
	735	270
The present value of lease liabilities are as follows:		
Less than 1 year	112	65
1 to 5 years	297	156
More than 5 years	326	49
	735	270

## 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. Contingent consideration is measured at fair value.

	2020 £m	2019 £m
Trade payables	2,205	2,404
Deferred payables	137	217
Customer contributions <sup>1</sup>	84	87
Social security and other taxes	202	159
Contingent consideration <sup>2</sup>	30	–
Other payables	944	902
	3,602	3,769

1. From government-related entities.

2. Contingent consideration relates to the acquisition of Geronimo (see note 38).

Due to their short maturities, the fair value of trade payables approximates their carrying value.

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 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.

	2020 £m	2019 £m
Current	76	61
Non-current	1,082	933
	<b>1,158</b>	994

Significant changes in the contract liabilities balances during the period are as follows:

	2020 £m	2019 £m
As at 1 April	994	866
Exchange adjustments	39	29
Revenue recognised that was included in the contract liability balance at the beginning of the period	(60)	(51)
Increases due to cash received, excluding amounts recognised as revenue during the period	185	155
Changes due to amounts recognised as revenue	–	(5)
At 31 March	<b>1,158</b>	994

#### 24. Other non-current liabilities

Other non-current liabilities include deferred income which will not be recognised as income until after 31 March 2021. It also includes payables that are not due until after that date.

Contingent consideration is measured at fair value. All other non-current liabilities are initially recognised at fair value and subsequently measured at amortised cost.

	2020 £m	2019 £m
Deferred income <sup>1</sup>	101	96
Customer contributions <sup>2</sup>	428	372
Contingent consideration <sup>3</sup>	44	–
Other payables	318	340
	<b>891</b>	808

1. Principally the deferral of profits relating to the sale of property, which we expect to recognise in future years.

2. From government-related entities.

3. Contingent consideration relates to the acquisition of Geronimo (see note 38).

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 benefit (DB) and defined contribution (DC) 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 (revised). We separately present our UK and US pension plans to show 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.

National Grid's UK pension arrangements are held in separate Trustee administered funds. The arrangements are managed by Trustee companies with boards consisting of company- and member-appointed directors. In the US, the assets of the plans are held in trusts and administered by the Retirement Plans Committee comprised of appointed employees of the Company.

### Defined contribution plans

These plans are designed to provide members with a pension pot for their retirement. The risks associated with these plans are assumed by the member.

Payments to these DC plans are charged as an expense as they fall due. There is no legal or constructive obligation on National Grid to pay additional contributions into a DC plan if the fund has insufficient assets to pay all employees' benefits relating to employee service in the current and prior periods.

### The National Grid YouPlan

YouPlan is the qualifying UK pension plan that is used for automatic enrolment of new hires.

National Grid pays contributions into YouPlan to provide DC benefits on behalf of employees. National Grid provides a double match of member contributions, up to a maximum Company contribution of 12% of salary as well as the cost of administration and insured benefits.

### Defined benefit plans

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. The discount rate used is the yield curve at the valuation date on high-quality corporate bonds.

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 principal UK DB pensions plans are the National Grid UK Pension Scheme (NGUKPS) and the National Grid Electricity Group of the Electricity Supply Pension Scheme (NGEG of ESPS). In the US, we have four principal plans and various healthcare and life insurance plans.

### The COVID-19 pandemic

The COVID-19 pandemic has had a global impact on economies, equity and bond markets. Market volatility during March has had an impact on the value of assets held by our DB and DC pension plans. Our UK DB plans have low-risk investment strategies with limited exposure to equities and other return seeking assets, whilst the US plans have a greater exposure to these asset classes.

### UK Pensions plans

The arrangements are subject to independent actuarial funding valuations at least every three years, and following consultation and agreement with us, 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 results of the most recent actuarial valuations are shown below. See page 167 for the assumptions used for IAS 19 (revised) purposes. The actuarial valuations for NGUKPS as at 31 March 2019 have recently been completed, while we expect the valuation for NGEG of ESPS to be finalised by 30 June 2020.

	Section A of NGUKPS	Section B of NGUKPS	NGEG of ESPS
Latest full actuarial valuation	31 March 2019	31 March 2019	31 March 2016
Actuary	Willis Towers Watson	Willis Towers Watson	Aon Hewitt
Market value of plan assets at latest valuation	£6,551 million	£5,765 million	£2,553 million
Actuarial value of benefits due to members	£6,502 million	£5,831 million	£3,053 million
Market value as percentage of benefits	101%	99%	84%
Funding surplus/(deficit)	£49 million	(£66 million)	(£500 million)
Funding surplus/(deficit) net of tax	£41 million	(£55 million)	(£415 million)

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 25. Pensions and other post-retirement benefits continued

##### National Grid UK Pension Scheme

NGUKPS consists of three sections, each legally and actuarially separate. Sections A and B are supported by companies within the Group, while Section C is supported by Cadent Gas Limited, now an unrelated third party. The plan closed to new hires on 1 April 2002.

##### Section A

Following the latest actuarial valuation at 31 March 2019, Section A remains in surplus, and so no deficit funding contributions are required. National Grid and the Trustees have agreed a schedule of contributions whereby the employers will continue to contribute 51.8% of pensionable salary, less member contributions, in respect of future benefit accrual.

As part of the sectionalisation of NGUKPS 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 pension 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).

##### Section B

The latest full actuarial valuation at 31 March 2019 determined that Section B was in deficit. In addition to a £34 million payment already made in September 2019, National Grid and the Trustees agreed that an additional payment of approximately £32 million will be made by September 2020 to eliminate the funding deficit. In addition, the employers contribute 51.4% of pensionable salary, less member contributions, in respect of future benefit accrual.

##### Pensions buy-ins

During the year, the Trustees of the NGUKPS entered into two buy-in arrangements in order to manage various risks. The policies provide bulk annuities in respect of some pensioner and dependant members of Sections A and B of NGUKPS and were funded by existing assets. In Section A, £2.8 billion of gilts were exchanged for a buy-in policy with Rothesay Life. In Section B, £1.6 billion of gilts were exchanged for a buy-in policy with Legal & General. Both policies are held by the Trustee. For both transactions, the pricing of the policies was highly competitive; however, under IAS 19 the methodology for calculating the value of the buy-ins (as an asset held by the pension plan) differs from the price paid. This resulted in the recognition of an actuarial loss of £0.7 billion on purchase, recorded within the consolidated statement of other comprehensive income.

##### National Grid Electricity Group of the Electricity Supply Pension Scheme

The last full actuarial valuation for the NGEF of the ESPS determined that the plan was in deficit. National Grid and the Trustees agreed on a schedule of contributions, whereby deficit funding of £48 million is payable each year from 2016 to 2027, which should lead to the elimination of the funding shortfall by March 2027. All deficit funding amounts due will be adjusted for changes in the RPI. In addition, National Grid contributes 40.7% of pensionable salary, less member contributions, in respect of the ongoing service cost. The plan closed to new hires from 1 April 2006.

The plan holds a longevity insurance contract which covers improvements in longevity, providing long-term protection to the scheme, should some pensioner and dependant members live longer than currently expected.

##### Administration costs

Up to 31 March 2020, National Grid was responsible for the costs of plan administration and the Pension Protection Fund (PPF) levies for both Sections A and B of NGUKPS, and NGEF of ESPS. However, from 1 April 2020 onwards this will only apply to Section B of NGUKPS and NGEF of ESPS, whilst Section A of NGUKPS will fund these costs from the Section's assets.

##### Security arrangements

National Grid has also established security arrangements with charges in favour of the Trustees.

	Section A of NGUKPS	Section B of NGUKPS	NGEF of ESPS
Value of security arrangements at 31 March 2020 <sup>1</sup>	£315 million	£180 million	£239 million
Principal supporting employers	National Grid plc and National Grid UK Limited	National Grid Gas plc (NGG)	National Grid Electricity Transmission plc (NGET)
Additional amounts payable <sup>2</sup> at 31 March 2020	£72 million	A maximum of £280 million	A maximum of £500 million

1. Following the completion of the March 2019 valuations for Sections A and B of NGUKPS, these amounts have changed to £186 million for Section A and to £nil for Section B.

2. These amounts are payable if certain trigger events occur which have been individually agreed between the plans and their relevant supporting employers.

The majority of the security is provided in the form of surety bonds with the remainder in letters of credit. The assets held in 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 NGEF 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.



## 25. Pensions and other post-retirement benefits continued

### US pension plans

National Grid has multiple DC pension plans which allow employee as well as Company contributions. Non-union employees hired after 1 January 2011, as well as new hire represented union employees, receive a core contribution into the DC plan, irrespective of the employee's contribution into the plan.

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 £153 million (2019: £231 million).

### US retiree healthcare and life insurance plans

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 £18 million (2019: £14 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

The Company has applied the following financial assumptions in assessing DB liabilities:

	UK pensions		
	2020 %	2019 %	2018 %
Discount rate – past service	2.35	2.40	2.60
Discount rate – future service	2.35	2.45	2.65
Salary increases	2.90	3.50	3.40
Rate of increase in RPI – past service	2.65	3.25	3.15
Rate of increase in RPI – future service	2.45	3.20	3.10

At 31 March 2020, single equivalent financial assumptions are shown above for presentational purposes, although full yield curves have been used in our calculations. In 2018 and 2019, single equivalent financial assumptions were set which reflected the average duration for the aggregate past and future service obligations.

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.

	US pensions			US other post-retirement benefits		
	2020 %	2019 %	2018 %	2020 %	2019 %	2018 %
Discount rate	3.30	3.95	4.00	3.30	3.95	4.00
Salary increases	3.50	3.50	3.50	3.50	3.50	3.50
Initial healthcare cost trend rate	n/a	n/a	n/a	7.00	7.25	7.50
Ultimate healthcare cost trend rate	n/a	n/a	n/a	4.50	4.50	4.50

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 2030 (2019: 2028).

	2020		2019		2018	
	UK years	US years	UK years	US years	UK years	US years
<i>Assumed life expectations for a retiree age 65</i>						
Males	22.1	20.9	22.0	22.1	22.3	22.0
Females	23.8	23.4	23.6	24.2	23.9	24.2
In 20 years:						
Males	23.3	22.5	23.3	23.7	23.7	23.6
Females	25.3	25.1	25.2	25.9	25.5	25.8

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 25. Pensions and other post-retirement benefits continued

##### Maturity profile of DB obligations

The weighted average duration of the DB obligation for each category of plan is 14 years for UK pension plans; 14 years for US pension plans and 16 years for US other post-retirement benefit plans.

As at the reporting date, the present value of the funded obligations split according to member status was approximately:

- UK pensions: 8% active members (2019: 10%; 2018: 10%); 14% deferred members (2019: 16%; 2018: 18%); 78% pensioner members (2019: 74%; 2018: 72%);
- US pensions: 36% active members (2019: 37%; 2018: 38%); 9% deferred members (2019: 9%; 2018: 8%); 55% pensioner members (2019: 54%; 2018: 54%); and
- US other post-retirement benefits: 35% active members (2019: 39%; 2018: 38%); 0% deferred members (2019: 0%; 2018: 0%); 65% pensioner members (2019: 61%; 2018: 62%).

For sensitivity analysis see note 35.

##### Amounts recognised in the consolidated statement of financial position

	2020 £m	2019 £m	2018 £m
Present value of funded obligations	(24,281)	(24,609)	(23,747)
Fair value of plan assets	23,748	24,793	23,858
	(533)	184	111
Present value of unfunded obligations	(345)	(330)	(307)
Other post-employment liabilities	(75)	(72)	(67)
<b>Net defined benefit liability</b>	<b>(953)</b>	<b>(218)</b>	<b>(263)</b>
Represented by:			
Liabilities	(2,802)	(1,785)	(1,672)
Assets	1,849	1,567	1,409
	(953)	(218)	(263)

The geographical split of pensions and other post-retirement benefits is as shown below:

	UK Pensions			US Pensions			US other post-retirement benefits		
	2020 £m	2019 £m	2018 £m	2020 £m	2019 £m	2018 £m	2020 £m	2019 £m	2018 £m
Present value of funded obligations	(12,775)	(14,200)	(14,152)	(7,809)	(6,901)	(6,349)	(3,697)	(3,508)	(3,246)
Fair value of plan assets	14,364	15,507	15,330	6,972	6,646	6,030	2,412	2,640	2,498
	1,589	1,307	1,178	(837)	(255)	(319)	(1,285)	(868)	(748)
Present value of unfunded obligations	(69)	(76)	(74)	(276)	(254)	(233)	–	–	–
Other post-employment liabilities	–	–	–	–	–	–	(75)	(72)	(67)
<b>Net defined benefit asset/(liability)</b>	<b>1,520</b>	<b>1,231</b>	<b>1,104</b>	<b>(1,113)</b>	<b>(509)</b>	<b>(552)</b>	<b>(1,360)</b>	<b>(940)</b>	<b>(815)</b>
Represented by:									
Liabilities	(69)	(76)	(74)	(1,373)	(769)	(783)	(1,360)	(940)	(815)
Assets	1,589	1,307	1,178	260	260	231	–	–	–
	1,520	1,231	1,104	(1,113)	(509)	(552)	(1,360)	(940)	(815)

The recognition of the pension assets in both the UK in relation to the NGUKPS, the NGEG of ESPS and the US in relation to Niagara Mohawk Plan reflects legal and actuarial advice that we have taken regarding recognition of surpluses under IFRIC 14. We have concluded that the Group has an unconditional right to a refund from the individual plans, including from each Section of the NGUKPS and the NGEG of ESPS, in the event of a winding up. In the UK, the Trustees must seek the agreement of the Company to any benefit augmentation beyond the provisions set out in the Scheme Rules. In the US, surplus assets may be used to pay benefits under other Plans, thereby allowing the Company to settle other liabilities under other Plans.

## 25. Pensions and other post-retirement benefits continued

### Amounts recognised in the income statement and statement of other comprehensive income

	2020 £m	2019 £m	2018 £m
<i>Included within operating costs</i>			
Administration costs	16	14	16
<i>Included within payroll costs</i>			
Defined benefit plan costs:			
Current service cost	178	193	193
Past service cost – augmentations	–	5	1
Past service credit – redundancies	–	(7)	(1)
Special termination benefit cost – redundancies	2	55	9
Past service cost – plan amendments <sup>1</sup>	–	34	–
	180	280	202
<i>Included within finance income and costs</i>			
Net interest cost	23	22	65
<b>Total included in income statement</b>	<b>219</b>	<b>316</b>	<b>283</b>
Remeasurement (losses)/gains of pension assets and post-retirement benefit obligations <sup>2</sup>	(724)	68	1,313
Exchange adjustments	(97)	(101)	175
<b>Total included in the statement of other comprehensive income</b>	<b>(821)</b>	<b>(33)</b>	<b>1,488</b>

1. For the year ended 31 March 2019, the estimated cost of equalising for the impact of GMP under the most cost-effective permissible methodology (Section A of NGUKPS – £17 million; Section B of NGUKPS – £12 million; NGE of ESPS – £5 million).
2. For the year ended 31 March 2020, this includes an actuarial loss from the purchase of buy-in policies of £0.7 billion.

The geographical split of pensions and other post-retirement benefits is as shown below:

	UK Pensions			US Pensions			US other post-retirement benefits		
	2020 £m	2019 £m	2018 £m	2020 £m	2019 £m	2018 £m	2020 £m	2019 £m	2018 £m
<i>Included within operating costs</i>									
Administration costs	9	6	6	6	7	9	1	1	1
<i>Included within payroll costs</i>									
Defined benefit plan costs:									
Current service cost	33	41	49	100	104	98	45	48	46
Past service cost – augmentations	–	5	1	–	–	–	–	–	–
Past service credit – redundancies	–	(7)	(1)	–	–	–	–	–	–
Special termination benefit cost – redundancies	2	55	9	–	–	–	–	–	–
Past service cost – plan amendments	–	34	–	–	–	–	–	–	–
	35	128	58	100	104	98	45	48	46
<i>Included within finance income and costs</i>									
Net interest (income)/cost	(31)	(31)	3	21	21	27	33	32	35
<b>Total included in income statement</b>	<b>13</b>	<b>103</b>	<b>67</b>	<b>127</b>	<b>132</b>	<b>134</b>	<b>79</b>	<b>81</b>	<b>82</b>
Remeasurement gains/(losses) of pension assets and post-retirement benefit obligations <sup>1</sup>	143	57	1,177	(588)	(14)	27	(279)	25	109
Exchange adjustments	–	–	–	(42)	(42)	75	(55)	(59)	100
<b>Total included in the statement of other comprehensive income</b>	<b>143</b>	<b>57</b>	<b>1,177</b>	<b>(630)</b>	<b>(56)</b>	<b>102</b>	<b>(334)</b>	<b>(34)</b>	<b>209</b>

1. For the year ended 31 March 2020, UK pensions is stated after an actuarial loss from the purchase of buy-in policies of £0.7 billion.

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 25. Pensions and other post-retirement benefits continued

##### Reconciliation of the net defined benefit liability

	2020 £m	2019 £m	2018 £m
Opening net defined benefit liability	(218)	(263)	(1,933)
Cost recognised in the income statement	(219)	(316)	(283)
Remeasurement and foreign exchange effects recognised in the statement of other comprehensive income	(821)	(33)	1,488
Employer contributions	327	419	475
Other movements	(22)	(25)	(10)
<b>Closing net defined benefit liability</b>	<b>(953)</b>	<b>(218)</b>	<b>(263)</b>

The geographical split of pensions and other post-retirement benefits is as shown below:

	UK pensions			US pensions			US other post-retirement benefits		
	2020 £m	2019 £m	2018 £m	2020 £m	2019 £m	2018 £m	2020 £m	2019 £m	2018 £m
Opening net defined benefit asset/(liability)	1,231	1,104	(156)	(509)	(552)	(728)	(940)	(815)	(1,049)
Cost recognised in the income statement	(13)	(103)	(67)	(127)	(132)	(134)	(79)	(81)	(82)
Remeasurement and foreign exchange effects recognised in the statement of other comprehensive income	143	57	1,177	(630)	(56)	102	(334)	(34)	209
Employer contributions	156	174	150	153	231	208	18	14	117
Other movements	3	(1)	–	–	–	–	(25)	(24)	(10)
<b>Closing net defined benefit asset/(liability)</b>	<b>1,520</b>	<b>1,231</b>	<b>1,104</b>	<b>(1,113)</b>	<b>(509)</b>	<b>(552)</b>	<b>(1,360)</b>	<b>(940)</b>	<b>(815)</b>

##### Changes in the present value of defined benefit obligations (including unfunded obligations)

	2020 £m	2019 £m	2018 £m
Opening defined benefit obligations	(24,939)	(24,054)	(26,230)
Current service cost	(178)	(193)	(193)
Interest cost	(751)	(771)	(775)
Actuarial gains/(losses) – experience	148	(69)	(100)
Actuarial gains – demographic assumptions	452	266	671
Actuarial (losses)/gains – financial assumptions	(84)	(619)	174
Past service credit – redundancies	–	7	1
Special termination benefit cost – redundancies	(2)	(55)	(9)
Past service cost – augmentations	–	(5)	(1)
Past service cost – plan amendments	–	(34)	–
Medicare subsidy received	(22)	(19)	(21)
Employee contributions	(1)	(1)	(1)
Benefits paid	1,282	1,376	1,285
Exchange adjustments	(531)	(768)	1,145
<b>Closing defined benefit obligations</b>	<b>(24,626)</b>	<b>(24,939)</b>	<b>(24,054)</b>

The geographical split of pensions and other post-retirement benefits is as shown below:

	UK pensions			US pensions			US other post-retirement benefits		
	2020 £m	2019 £m	2018 £m	2020 £m	2019 £m	2018 £m	2020 £m	2019 £m	2018 £m
Opening defined benefit obligations	(14,276)	(14,226)	(15,645)	(7,155)	(6,582)	(7,050)	(3,508)	(3,246)	(3,535)
Current service cost	(33)	(41)	(49)	(100)	(104)	(98)	(45)	(48)	(46)
Interest cost	(335)	(358)	(366)	(280)	(277)	(273)	(136)	(136)	(136)
Actuarial gains/(losses) – experience	113	(56)	(95)	(45)	(52)	(38)	80	39	33
Actuarial gains – demographic assumptions	140	224	565	78	–	30	234	42	76
Actuarial gains/(losses) – financial assumptions	798	(568)	604	(595)	(24)	(279)	(287)	(27)	(151)
Past service credit – redundancies	–	7	1	–	–	–	–	–	–
Special termination benefit cost – redundancies	(2)	(55)	(9)	–	–	–	–	–	–
Past service cost – augmentations	–	(5)	(1)	–	–	–	–	–	–
Past service cost – plan amendments	–	(34)	–	–	–	–	–	–	–
Medicare subsidy received	–	–	–	–	–	–	(22)	(19)	(21)
Employee contributions	(1)	(1)	(1)	–	–	–	–	–	–
Benefits paid	752	837	770	374	398	362	156	141	153
Exchange adjustments	–	–	–	(362)	(514)	764	(169)	(254)	381
<b>Closing defined benefit obligations</b>	<b>(12,844)</b>	<b>(14,276)</b>	<b>(14,226)</b>	<b>(8,085)</b>	<b>(7,155)</b>	<b>(6,582)</b>	<b>(3,697)</b>	<b>(3,508)</b>	<b>(3,246)</b>

**25. Pensions and other post-retirement benefits** continued  
**Changes in the value of plan assets**

	2020 £m	2019 £m	2018 £m
Opening fair value of plan assets	24,793	23,858	24,375
Interest income	728	749	710
Return on plan assets (less than)/in excess of interest <sup>1</sup>	(1,240)	490	568
Administration costs	(16)	(14)	(16)
Employer contributions	327	419	475
Employee contributions	1	1	1
Benefits paid	(1,279)	(1,377)	(1,285)
Exchange adjustments	434	667	(970)
<b>Closing fair value of plan assets</b>	<b>23,748</b>	<b>24,793</b>	<b>23,858</b>
<b>Actual return on plan assets</b>	<b>(512)</b>	<b>1,239</b>	<b>1,278</b>
<b>Expected contributions to plans in the following year</b>	<b>269</b>	<b>307</b>	<b>363</b>

1. For the year ended 31 March 2020, this includes an actuarial loss from the purchase of buy-in policies of £0.7 billion.

The geographical split of pensions and other post-retirement benefits is as shown below:

	UK pensions			US pensions			US other post-retirement benefits		
	2020 £m	2019 £m	2018 £m	2020 £m	2019 £m	2018 £m	2020 £m	2019 £m	2018 £m
Opening fair value of plan assets	15,507	15,330	15,489	6,646	6,030	6,322	2,640	2,498	2,564
Interest income	366	389	363	259	256	246	103	104	101
Return on plan assets (less than)/in excess of interest <sup>1</sup>	(908)	457	103	(26)	62	314	(306)	(29)	151
Administration costs	(9)	(6)	(6)	(6)	(7)	(9)	(1)	(1)	(1)
Employer contributions	156	174	150	153	231	208	18	14	117
Employee contributions	1	1	1	–	–	–	–	–	–
Benefits paid	(749)	(838)	(770)	(374)	(398)	(362)	(156)	(141)	(153)
Exchange adjustments	–	–	–	320	472	(689)	114	195	(281)
<b>Closing fair value of plan assets</b>	<b>14,364</b>	<b>15,507</b>	<b>15,330</b>	<b>6,972</b>	<b>6,646</b>	<b>6,030</b>	<b>2,412</b>	<b>2,640</b>	<b>2,498</b>
<b>Actual return on plan assets</b>	<b>(542)</b>	<b>846</b>	<b>466</b>	<b>233</b>	<b>318</b>	<b>560</b>	<b>(203)</b>	<b>75</b>	<b>252</b>
<b>Expected contributions to plans in the following year</b>	<b>137</b>	<b>148</b>	<b>140</b>	<b>125</b>	<b>150</b>	<b>221</b>	<b>7</b>	<b>9</b>	<b>2</b>

1. For the year ended 31 March 2020, UK pensions includes an actuarial loss from the purchase of buy-in policies of £0.7 billion.

The markets for unquoted investments are illiquid and the valuations that have been provided by fund managers as at 31 March 2020 may be based on valuation models that have unobservable inputs. Given the current market volatility that has arisen as a result of COVID-19, this means that the prices provided are subject to additional estimation uncertainty. Sensitivity analyses for changes in private equity, property and diversified alternative valuations have been provided in note 35.

**Asset allocation strategy**

Each plan's investment strategy is formulated in order to target specific asset allocations and returns, and to manage risk. The asset allocation of the plans is as follows:

	2020			2019		
	UK pensions %	US pensions %	US other post-retirement benefits %	UK pensions %	US pensions %	US other post-retirement benefits %
Equities	10.2	36.0	57.6	12.7	40.8	60.2
Corporate bonds	26.7	31.0	0.6	23.4	26.4	0.7
Government securities	14.3	18.2	22.9	39.4	16.0	20.6
Property	4.8	4.4	–	5.5	4.7	–
Diversified alternatives	6.2	9.0	13.4	5.0	10.1	12.9
Liability matching assets	34.3	–	–	11.1	–	–
Infrastructure	–	1.7	–	–	1.5	–
Cash and cash equivalents	1.8	0.3	–	1.9	0.3	–
Other	1.7	(0.6)	5.5	1.0	0.2	5.6
	100.0	100.0	100.0	100.0	100.0	100.0

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 25. Pensions and other post-retirement benefits continued

##### Defined benefit investment strategies and risks

DB pension plans can pose a significant risk to future cash flows, as National Grid underwrites the financial and demographic risks associated with these 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.

In the UK, each plan has a Trustee that is the governing body. The Trustees' responsibilities are set out in the Trust Deed and Rules. In the US, the fiduciary committee for all the retirement plans is the Retirement Plan Committee (RPC). The RPC is structured in accordance with US laws governing retirement plans under the Employee Retirement Income Security Act (ERISA).

The Trustees and RPC, after taking advice from professional investment advisors and in consultation with National Grid, set the key principles, including expected returns, risk and liquidity requirements. In setting these they take into account expected contributions, maturity of the pension liabilities, and in the UK, the strength of the covenant. The Trustees and RPC formulate an investment strategy to manage risk through diversification, including the use of liability-matching assets, which move in line with the long-term liabilities of the plan, and return-seeking assets, some of which are designed to mitigate downside risk. Where appropriate, the strategies may include interest rate and inflation hedging instruments, and currency hedging to hedge overseas holdings.

Investments are usually grouped into:

- Return-seeking assets: equities, property and diversified funds where the objective is to achieve growth within the constraints of the plans' risk profiles. These assets should produce returns greater than the liability increase, so improving the funding position, and are assessed by reference to benchmarks and performance targets agreed with the investment managers; and
- Liability-matching assets: liability-driven investment (LDI) funds, buy-ins, government securities, corporate bonds and swaps, where the objective is to secure fixed or inflation-adjusted cash flows in future. These investments are generally expected to match the change in liability valuation, so protecting the funding position. Bonds and securities are also measured against certain market benchmarks.

Investments are predominantly made in assets considered to be of investment grade. Where investments are made in non-investment grade assets, the higher volatility involved is carefully judged and balanced against the expected higher returns. Similarly, investments are made predominantly in regulated markets. 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. Should these investments fall outside the pre-agreed ranges, corrective actions and timescales are agreed with the investment manager to remedy the position.

The governing bodies ensure that the performance of investment managers is regularly reviewed against measurable objectives, consistent with each pension plan's long-term objectives and accepted risk levels. Where required, the portfolios are amended, or investment managers changed.

The Trustees and RPC 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 of those markets, process and financial security to manage the investments. The investment managers use their skill and expertise to manage the investments competently. In some cases, they may further delegate this responsibility, through appointing sub-managers.

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).

In the UK, both NGUKPS and NGEF of ESPS have Responsible Investment (RI) Policies, which take into account Environmental, Social and Governance (ESG) areas. The NGUKPS RI also incorporates the six UN-backed Principles for Responsible Investment (UNPRI). The Trustees believe that ESG factors can be material to financial outcomes and therefore these should and will be considered alongside other factors. The Trustees 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, the Trustees also recognise the increasing materiality of ESG factors and that they have a fiduciary and regulatory duty to consider RI, including ESG factors and the potential impact on the quality and sustainability of long-term investment returns and therefore on the Trustees' primary fiduciary duty.

Whilst in the US there is no regulatory requirement to have ESG-specific principles embedded in investment policies, investment managers often utilise ESG principles to inform their decision-making process.

The most significant risks associated with the DB plans are:

- Asset volatility – the plans invest in a variety of asset classes, but principally in government securities, bulk annuities, corporate bonds, equities and property. Consequently, actual returns will 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. Volatility will be controlled through using liability-matching asset strategies including bulk annuities, as well as interest rate hedging and management of foreign exchange exposure, and diversification of the return-seeking assets;
- Changes in bond yields – liabilities are calculated using discount rates set with reference to the yields in high-quality corporate bonds prevailing in the UK and US debt markets and will fluctuate as yields change;
- Member longevity – longevity is a key driver of liabilities and changes in life expectancy have a direct impact on liabilities. The NGEF of ESPS holds a longevity insurance contract ("longevity swap") and NGUKPS holds buy-in policies for both Sections A and B, which covers exposure to improvement in longevity, providing long-term protection in the event that members live longer than expected;
- Counterparty risk – 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;
- Deficit risk – the risk that the increase in the liability will outpace the growth in assets is managed through assessing the progress of the actual growth of the liabilities relative to the selected investment policy and adjusting the policy as required;
- Manager risk – expected deviation of the return, relative to the benchmark, is carefully monitored, as is the process, team and expertise of the manager. Where appropriate, the Trustee or RPC will move assets under management to a more robust manager, whom they consider will have a better expectation of performing well in the future;
- 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

### Defined benefit investment strategies and risks continued

- Interest rate and 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;
- Investment funds – the credit risk arising from investing in investment funds is mitigated by the underlying assets of the investment funds being ring-fenced from the fund managers, the regulatory environments in which the fund managers operate and diversification of investments among investment fund arrangements;
- Political risk – an adverse influence on asset values arising from political intervention in a specific country or region is managed through regular review of the asset distribution and through ensuring geographical diversification of investments within the managers; and
- Custodian risk – the creditworthiness and ability of the custodians to settle trades on time and provide secure safekeeping of the assets under custody is managed by ongoing monitoring of the custodial arrangements against pre-agreed service levels and credit ratings.

### Asset allocations

Within the asset allocations below, there is significant diversification across regions, asset managers, currencies and bond categories.

#### UK pensions

	2020			2019			2018		
	Quoted £m	Unquoted £m	Total £m	Quoted £m	Unquoted £m	Total £m	Quoted £m	Unquoted £m	Total £m
Equities	732	732	1,464	1,181	784	1,965	1,420	813	2,233
Corporate bonds	3,837	–	3,837	3,625	–	3,625	3,949	–	3,949
Government securities	2,051	–	2,051	6,114	–	6,114	5,629	–	5,629
Property	103	585	688	108	749	857	129	834	963
Diversified alternatives	–	893	893	–	771	771	99	690	789
Liability-matching assets	1,704 <sup>1</sup>	3,278 <sup>2</sup>	4,982	1,751	–	1,751	1,174	–	1,174
Longevity swap	–	(51)	(51)	–	(35)	(35)	–	–	–
Cash and cash equivalents	29	222	251	40	259	299	211	215	426
Other (including net current assets and liabilities)	–	249	249	–	160	160	–	167	167
	8,456	5,908	14,364	12,819	2,688	15,507	12,611	2,719	15,330

1. Consists of pooled funds which invests mainly in fixed interest securities.

2. Comprises the buy-in policies held by NGUKPS.

#### US pensions

	2020			2019			2018		
	Quoted £m	Unquoted £m	Total £m	Quoted £m	Unquoted £m	Total £m	Quoted £m	Unquoted £m	Total £m
Equities	467	2,043	2,510	533	2,178	2,711	577	1,954	2,531
Corporate bonds	1,640	518	2,158	1,329	425	1,754	1,085	413	1,498
Government securities	535	732	1,267	422	640	1,062	414	565	979
Property	–	307	307	–	316	316	–	279	279
Diversified alternatives	162	464	626	183	487	670	198	421	619
Infrastructure	–	121	121	–	99	99	–	77	77
Cash and cash equivalents	24	–	24	21	–	21	14	–	14
Other (including net current assets and liabilities)	(44)	3	(41)	(8)	21	13	6	27	33
	2,784	4,188	6,972	2,480	4,166	6,646	2,294	3,736	6,030

#### US other post-retirement benefits

	2020			2019			2018		
	Quoted £m	Unquoted £m	Total £m	Quoted £m	Unquoted £m	Total £m	Quoted £m	Unquoted £m	Total £m
Equities	353	1,037	1,390	404	1,184	1,588	412	1,110	1,522
Corporate bonds	15	–	15	19	–	19	24	–	24
Government securities	551	1	552	540	3	543	508	2	510
Diversified alternatives	162	161	323	175	166	341	161	144	305
Other <sup>1</sup>	–	132	132	–	149	149	–	137	137
	1,081	1,331	2,412	1,138	1,502	2,640	1,105	1,393	2,498

1. Other primarily comprises insurance contracts.

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 26. Provisions

We make provisions 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 main estimates relate to environmental remediation and decommissioning costs for various sites we own or have owned and other provisions, including restructuring plans and lease contracts we have entered into that are now loss making. The evaluation of the likelihood of the contingent events has required best judgement by management regarding the probability of exposure to potential loss. Should circumstances change following unforeseeable developments, the likelihood 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.

Provision is made for decommissioning and environmental costs, based on future estimated expenditures, 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.

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	Emissions £m	Other £m	Total provisions £m
At 1 April 2018	1,531	194	3	8	316	2,052
Exchange adjustments	103	7	–	–	14	124
Additions <sup>1</sup>	32	18	125	16	35	226
Unused amounts reversed	(36)	(10)	(3)	(6)	(10)	(65)
Unwinding of discount	62	5	–	–	7	74
Utilised <sup>2</sup>	(53)	(26)	(42)	(9)	(79)	(209)
Transfers <sup>3</sup>	–	–	–	–	(3)	(3)
At 31 March 2019	1,639	188	83	9	280	2,199
Exchange adjustments	82	5	–	1	9	97
Additions <sup>1</sup>	437	93	7	12	40	589
Unused amounts reversed	(29)	(16)	(16)	–	(9)	(70)
Unwinding of discount	65	5	–	–	7	77
Utilised <sup>2</sup>	(123)	(21)	(39)	(5)	(50)	(238)
<b>At 31 March 2020</b>	<b>2,071</b>	<b>254</b>	<b>35</b>	<b>17</b>	<b>277</b>	<b>2,654</b>

	2020 £m	2019 £m
Current	348	316
Non-current	2,306	1,883
	<b>2,654</b>	2,199

1. For the year ended 31 March 2020, £402 million (2019: £nil) of additions relate to exceptional environmental provisions, of which £76 million relates to the impact of the change in the real discount rate from 1% to 0.5% during the year (see note 5 for details). Additions to other provisions include £15 million (2019: £nil) in relation to discontinued operations.

2. Utilised amounts for other provisions include £8 million (2019: £20 million) in relation to discontinued operations.

3. Represents net amounts transferred to trade and other payables (see note 22) of £nil (2019: £3 million).



## 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:

	2020			2019		
	Discounted £m	Undiscounted £m	Real discount rate	Discounted £m	Undiscounted £m	Real discount rate
UK sites	175	184	0.5%	189	210	1%
US sites	1,896	1,955	0.5%	1,450	1,555	1%
	2,071	2,139		1,639	1,765	

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 2075 although the weighted average duration of the cash flows is 11 years. 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 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 nine 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 represent £174 million (2019: £80 million) of expenditure relating to asset retirement obligations estimated to be incurred until 2115, with additional amounts being recognised in the year relating to both interconnectors and other assets commissioned in the year. In addition, £74 million (2019: £90 million) of expenditure relating to the demolition of gas holders is estimated to be incurred until 2026.

### Restructuring provisions

In 2019, a cost-efficiency and restructuring programme was undertaken in both our UK and US businesses, as detailed in note 5, which resulted in the recognition of a £125 million charge in that year. £39 million (2019: £42 million) was utilised during the current year, resulting in a closing provision of £35 million (2019: £83 million).

### Other provisions

Included within other provisions at 31 March 2020 are the following amounts:

- £37 million (2019: £30 million) in respect of legacy provisions recognised following the sale of UK Gas Distribution;
- £31 million (2019: £29 million) in respect of onerous lease commitments and rates payable on surplus properties with expenditure expected to be incurred until 2039;
- £164 million (2019: £164 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 2049; and
- £nil (2019: £13 million) in respect of obligations associated with investments in joint ventures and associates.

## Notes to the consolidated financial statements

### – analysis of items in the primary 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 2018	3,638	452
Issued during the year in lieu of dividends <sup>1</sup>	49	6
At 31 March 2019	3,687	458
Issued during the year in lieu of dividends <sup>1</sup>	93	12
<b>At 31 March 2020</b>	<b>3,780</b>	<b>470</b>

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 12<sup>204/473</sup> 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.

#### Treasury shares

At 31 March 2020, the Company held 272 million (2019: 277 million) of its own shares. The market value of these shares as at 31 March 2020 was £2,574 million (2019: £2,359 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 2020:

- During the year, 3 million (2019: 3 million) treasury shares were gifted to National Grid Employee Share Trusts and 2 million (2019: 3 million) treasury shares were re-issued in relation to employee share schemes, in total representing approximately 0.1% (2019: 0.2%) of the ordinary shares in issue as at 31 March 2020. The nominal value of these shares was £1 million (2019: £1 million) and the total proceeds received were £17 million (2019: £18 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.
- During the year, the Company made payments totalling £6 million (2019: £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 277 million (2019: 283 million) representing approximately 7.3% (2019: 7.7%) of the ordinary shares in issue as at 31 March 2020 and having a nominal value of £34 million (2019: £35 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.

Other equity reserves comprise the translation reserve (see accounting policy D in note 1), cash flow hedge reserve and the cost of hedging reserve (see note 32), available-for-sale reserve, 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 available-for-sale, 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	Available- for-sale £m	FVOCI equity £m	FVOCI debt £m	Own credit £m	Capital redemption £m	Merger £m	Total £m
At 1 April 2017	894	103	–	162	–	–	–	19	(5,165)	(3,987)
Exchange adjustments <sup>1</sup>	(504)	–	–	–	–	–	–	–	–	(504)
Net gains/(losses) taken to equity <sup>2</sup>	–	296	–	(30)	–	–	–	–	–	266
Share of net gains of associates taken to equity	–	5	–	–	–	–	–	–	–	5
Transferred from profit or loss <sup>2</sup>	–	(280)	–	(73)	–	–	–	–	–	(353)
Tax	–	4	–	29	–	–	–	–	–	33
At 31 March 2018 (as previously reported)	390	128	–	88	–	–	–	19	(5,165)	(4,540)
Transfer on transition to IFRS 9	–	(3)	76	(88)	34	46	7	–	–	72
At 1 April 2018 (as restated)	390	125	76	–	34	46	7	19	(5,165)	(4,468)
Exchange adjustments <sup>1</sup>	346	–	–	–	–	–	–	–	–	346
Net (losses)/gains taken to equity <sup>2</sup>	–	(206)	(107)	–	–	2	7	–	–	(304)
Share of net gains of associates taken to equity	–	1	–	–	–	–	–	–	–	1
Transferred to profit or loss <sup>2</sup>	–	166	41	–	–	–	–	–	–	207
Net losses in respect of cash flow hedging of capital expenditure	–	(13)	–	–	–	–	–	–	–	(13)
Tax	–	6	7	–	–	–	(1)	–	–	12
Cash flow hedges transferred to the statement of financial position, net of tax	–	(18)	–	–	–	–	–	–	–	(18)
At 1 April 2019	736	61	17	–	34	48	13	19	(5,165)	(4,237)
Exchange adjustments <sup>1</sup>	550	–	–	–	–	–	–	–	–	550
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)
<b>At 31 March 2020</b>	<b>1,286</b>	<b>(75)</b>	<b>(50)</b>	<b>–</b>	<b>25</b>	<b>31</b>	<b>10</b>	<b>19</b>	<b>(5,165)</b>	<b>(3,919)</b>

1. The exchange adjustments recorded in the translation reserve comprise a gain of £545 million (2019: gain of £896 million; 2018: loss of £1,304 million) relating to the translation of foreign operations offset by a gain of £5 million (2019: loss of £550 million; 2018: gain of £800 million) relating to borrowings, cross-currency swaps and foreign exchange forward contracts used to hedge the net investment in non-sterling denominated subsidiaries.

2. Following a review in the year, we have changed our presentation of spot foreign exchange movements on derivatives designated in cash flow hedges of foreign currency risk and interest rates. This has no net impact on the consolidated statement of comprehensive income. It has resulted in a prior year gross up to £166 million (2018: £277 million) to 'Net losses taken to equity' with an equal and offsetting gross up to 'Transferred to profit or loss'.

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 29. Net debt

Net debt represents the amount of borrowings and overdrafts less cash, current financial investments and related financing derivatives.

Funding and liquidity risk management is carried out by the treasury function under policies and guidelines approved by the Finance Committee of the Board. The Finance Committee is responsible for the regular review and monitoring of treasury activity and for the approval of specific transactions, the authority for which fall outside the delegation of authority to management.

The primary objective of the treasury function is to manage our funding and liquidity requirements. A further important objective is to manage the associated financial risks, in the form of interest rate risk and foreign exchange risk, to within pre-authorised parameters. Details of the main risks arising from our financing and commodity hedging activities are included in note 32.

Investment of surplus funds, usually in short-term fixed deposits or placements with money market funds that invest in highly liquid instruments of high credit quality, is subject to our counterparty risk management policy.

#### (a) Reconciliation of net cash flow to movement in net debt

	2020 £m	2019 £m	2018 £m
Decrease in cash and cash equivalents	(183)	(80)	(807)
Decrease in financial investments	(7)	(822)	(5,953)
Increase/(decrease) in borrowings and related derivatives <sup>1</sup>	(23)	(708)	1,209
Net interest paid on the components of net debt <sup>2</sup>	888	866	808
Change in debt resulting from cash flows	675	(744)	(4,743)
Changes in fair value of financial assets and liabilities and exchange movements	(1,081)	(1,648)	2,098
Net interest charge on the components of net debt	(1,097)	(1,076)	(1,017)
Other non-cash movements	(84)	(27)	(66)
Movement in net debt (net of related derivative financial instruments) in the year	(1,587)	(3,495)	(3,728)
Net debt (net of related derivative financial instruments) at start of year	(26,529)	(23,002)	(19,274)
Impact of transition to IFRS 16 (2019: IFRS 9)	(474)	(32)	–
<b>Net debt (net of related derivative financial instruments) at end of year</b>	<b>(28,590)</b>	<b>(26,529)</b>	<b>(23,002)</b>

#### Composition of net debt

Net debt is comprised as follows:

	2020 £m	2019 £m	2018 £m
Cash, cash equivalents and financial investments	2,071	2,233	3,023
Borrowings	(30,794)	(28,730)	(26,625)
Financing derivatives <sup>1</sup>	133	(32)	600
	<b>(28,590)</b>	<b>(26,529)</b>	<b>(23,002)</b>

1. The financing derivatives balance included in net debt excludes the commodity derivatives (see note 17).

2. Excludes £6 million (2019: £23 million; 2018: £27 million) cash interest from the Quadgas shareholder loan included within discontinued operations in the cash flow statement.

**29. Net debt** continued

**(b) Analysis of changes in net debt**

	Cash and cash equivalents £m	Financial investments £m	Borrowings £m	Financing derivatives £m	Total <sup>1</sup> £m
At 1 April 2017	1,139	8,741	(28,638)	(516)	(19,274)
Cash flow	(807)	(5,983)	2,108	(61)	(4,743)
Fair value gains and losses and exchange movements	(3)	(149)	1,088	1,162	2,098
Interest income/(charges)	–	85	(1,117)	15	(1,017)
Other non-cash movements	–	–	(66)	–	(66)
At 31 March 2018	329	2,694	(26,625)	600	(23,002)
Impact of transition to IFRS 9	–	–	(32)	–	(32)
At 1 April 2018 (as restated)	329	2,694	(26,657)	600	(23,034)
Cash flow	(80)	(846)	(240)	422	(744)
Fair value gains and losses and exchange movements	3	93	(733)	(1,011)	(1,648)
Interest income/(charges)	–	29	(1,062)	(43)	(1,076)
Other non-cash movements	–	11	(38)	–	(27)
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 and exchange movements	4	25	(864)	(246)	(1,081)
Interest income/(charges)	–	34	(1,092)	(39)	(1,097)
Other non-cash movements	–	–	(84)	–	(84)
<b>At 31 March 2020</b>	<b>73</b>	<b>1,998</b>	<b>(30,794)</b>	<b>133</b>	<b>(28,590)</b>
Balances at 31 March 2020 comprise:					
Non-current assets	–	–	–	1,205	1,205
Current assets	73	1,998	–	62	2,133
Current liabilities	–	–	(4,072)	(254)	(4,326)
Non-current liabilities	–	–	(26,722)	(880)	(27,602)
	<b>73</b>	<b>1,998</b>	<b>(30,794)</b>	<b>133</b>	<b>(28,590)</b>

1. Includes accrued interest at 31 March 2020 of £246 million (2019: £223 million; 2018: £197 million).

**(c) Reconciliation of cash flow from financing liabilities to cash flow statement**

	2020 £m	2019 £m	2018 £m
Cash flows per financing activities section of cash flow statement:			
Proceeds received from loans	<b>4,218</b>	2,932	1,941
Repayment of loans	<b>(3,253)</b>	(1,969)	(2,156)
Payments of lease liabilities	<b>(121)</b>	(70)	(71)
Net movements in short-term borrowings	<b>(424)</b>	179	(764)
Net movements in derivatives	<b>(187)</b>	35	(267)
Interest paid	<b>(957)</b>	(914)	(853)
Cash flows per financing activities section of cash flow statement	<b>(724)</b>	193	(2,170)
Adjustments:			
Non-net debt-related items	<b>34</b>	24	12
Derivative cash inflow in relation to capital expenditure	<b>13</b>	13	12
Derivative cash flows per investing section of cash flow statement	<b>(223)</b>	(412)	330
Discontinued operations	<b>–</b>	–	(231)
<b>Cash flows relating to financing liabilities within net debt</b>	<b>(900)</b>	(182)	(2,047)
<b>Analysis of changes in net debt:</b>			
Borrowings	<b>(450)</b>	240	(2,108)
Financing derivatives	<b>(450)</b>	(422)	61
<b>Cash flow movements relating to financing liabilities within net debt</b>	<b>(900)</b>	(182)	(2,047)

## Notes to the consolidated financial statements

### – analysis of items in the primary statements continued

#### 29. Net debt continued

##### (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. Liabilities arising from financing activities are those for which cash flows were, or future cash flows will be, classified in the statement of cash flows within financing activities.

Following a review in the year, we have changed our accounting policy in relation to the presentation of certain derivatives in the cash flow statement to be presented as investing activities rather than financing activities (further detail is disclosed in note 1). The reclassified cash flows are in relation to derivatives associated with our net investment hedges, and given they are designated in a hedge relationship, the Group has decided to present them together with the underlying hedged item rather than as part of our overall financing activities.

As a result we have separately disclosed the reconciliation below, excluding derivatives associated with our net investment hedges, given that they are classified in the statement of cash flows within investing activities.

	Borrowings £m	Financing derivatives £m	Total £m
At 1 April 2017	(28,638)	16	(28,622)
Cash flow	2,108	281	2,389
Fair value gains and losses and exchange movements	1,088	222	1,310
Interest income/(charges)	(1,117)	34	(1,083)
Other non-cash movements	(66)	–	(66)
At 31 March 2018	(26,625)	553	(26,072)
Impact of transition to IFRS 9	(32)	–	(32)
At 1 April 2018 (as restated)	(26,657)	553	(26,104)
Cash flow	(240)	23	(217)
Fair value gains and losses and exchange movements	(733)	(334)	(1,067)
Interest charges	(1,062)	(14)	(1,076)
Other non-cash movements	(38)	–	(38)
At 1 April 2019	(28,730)	228	(28,502)
Impact of transition to IFRS 16	(474)	–	(474)
Cash flow	450	240	690
Fair value gains and losses and exchange movements	(864)	(231)	(1,095)
Interest charges	(1,092)	(9)	(1,101)
Other non-cash movements	(84)	–	(84)
<b>At 31 March 2020</b>	<b>(30,794)</b>	<b>228</b>	<b>(30,566)</b>

## Notes to the consolidated financial statements

### – supplementary information

This section includes information that is important to enable a full understanding of our financial position, particularly areas of potential uncertainty that could affect us in the future.

We also include specific disclosures for Niagara Mohawk Power Corporation in accordance with various rules including Rule 3-10 of Regulation S-X (a US SEC requirement), as they have issued public debt securities which have been guaranteed by National Grid plc. Additional disclosures have also been included in respect of the guarantor company. These disclosures are in lieu of publishing separate financial statements for these companies (see note 36 for further information).

#### 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. Commitments previously included operating lease commitments but on transition to IFRS 16, which was effective from 1 April 2019, substantially all lease commitments are included on the balance sheet as right-of-use assets (see note 13) and lease liabilities (see note 21). Therefore, only low-value leases and short-term leases are off-balance sheet commitments, both of which are immaterial. 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.

	2020 £m	2019 £m
<b>Future capital expenditure</b>		
Contracted for but not provided	2,629	1,973
<b>Energy purchase commitments<sup>1</sup></b>		
Less than 1 year	1,365	1,353
In 1 to 2 years	890	779
In 2 to 3 years	973	651
In 3 to 4 years	955	827
In 4 to 5 years	861	862
More than 5 years	11,314	11,237
	16,358	15,709
<b>Guarantees<sup>2</sup></b>		
Guarantee of sublease for US property (expires 2040)	173	173
Guarantees of certain obligations of Grain LNG (expire up to 2025)	34	39
Guarantees of certain obligations for construction of HVDC West Coast Link (expected expiry 2020)	92	139
Guarantees of certain obligations of Nemo Link Limited (expired 2019)	–	19
Guarantees of certain obligations of National Grid North Sea Link Limited (various expiry dates) <sup>2</sup>	683	865
Guarantees of certain obligations of St William Homes LLP (various expiry dates) <sup>3</sup>	30	22
Guarantees of certain obligations for construction of IFA 2 (expected expiry 2022) <sup>2</sup>	564	505
Guarantees of certain obligations of National Grid Viking Link Limited (expected expiry 2024)	1,096	872
Other guarantees and letters of credit (various expiry dates)	150	341
	2,822	2,975
		2019 £m
<b>Operating lease commitments</b>		
Less than 1 year		43
In 1 to 2 years		39
In 2 to 3 years		34
In 3 to 4 years		35
In 4 to 5 years		27
More than 5 years		123
		301

1. 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).

2. Included within total guarantees are guarantees to both joint ventures and Engineering, Procurement and Construction contractors regarding the construction of interconnectors of £358 million (2019: £470 million).

3. Includes guarantees to related parties.

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.

## Notes to the consolidated financial statements

### – supplementary information continued

#### 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:

	2020 £m	2019 £m	2018 £m
Sales: Goods and services supplied to a pension plan	5	5	3
Sales: Goods and services supplied to joint ventures <sup>1</sup>	101	151	14
Sales: Goods and services supplied to associates <sup>2</sup>	33	192	220
Purchases: Goods and services received from joint ventures <sup>3</sup>	61	26	135
Purchases: Goods and services received from associates <sup>3</sup>	56	141	160
Receivable from joint ventures <sup>4</sup>	255	584	160
Receivable from associates <sup>4</sup>	1	368	376
Payable to joint ventures	72	8	–
Payable to associates	4	12	17
Interest income from joint ventures	2	5	4
Interest income from associates	8	23	27
Dividends received from joint ventures <sup>5</sup>	34	30	43
Dividends received from associates <sup>6</sup>	41	171	170

- During the year, £38 million (2019: £139 million) of property sites were sold to a joint venture, St William Homes LLP. A further £32 million of sales were made to NGET/SPT Upgrades Limited in 2020.
- Sales relate 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). Included within this is other income of £31 million (2019: £52 million) relating to a Transitional Service Agreement following the sale of the UK Gas Distribution business to Quadgas.
- 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, £31 million (2019: £30 million) of purchases from Millennium Pipeline Company LLC. The Group also purchased capitalised assets of £58 million (2019: £26 million) from NGET/SPT Upgrades Limited (a joint venture).
- Amounts receivable from associates includes a loan receivable balance of £242 million (2019: £325 million) in relation to St William Homes LLP (a joint venture). There is no longer a loan receivable from Quadgas (2019: £352 million) and Nemo Link (a joint venture) (2019: £258 million). The loan receivable balance from Nemo Link was transferred to equity during 2020 (see note 16 for details).
- Dividends of £25 million (2019: £30 million) were received from BritNed Development Limited.
- Includes £32 million (2019: £24 million) of dividend income from Millennium Pipeline Company LLC. No dividends were received from Quadgas this year (2019: £133 million).

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 88 – 108 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 82.

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.



**32. Financial risk management** continued

Hedge accounting relationships are designated in line with risk management activities further described below. Categories designated at National Grid 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 about 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 2020, the following limits were in place for investments held with banks and financial institutions:

	Maximum limit £m	Long-term limit £m
Triple 'A' G7 sovereign entities (AAA)	2,049	1,024
Triple 'A' vehicles (AAA)	500	–
Triple 'A' range institutions and non-G7 sovereign entities (AAA)	1,118	559
Double 'A+' G7 sovereign entities (AA+)	1,863	931
Double 'A' range institutions (AA)	745 to 931	372 to 465
Single 'A' range institutions (A)	261 to 373	130 to 186

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 2020 and 2019, 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 service has 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 ceased certain cash collection and termination activities in response to regulatory instructions following the COVID-19 pandemic. This has resulted in the recognition of expected credit losses as at 31 March 2020 (see note 19 for further details).

# Notes to the consolidated financial statements

## – supplementary information continued

### 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 are only reported net if the transactions are with the same counterparty, a currently enforceable legal right of offset exists, and the cash flows are 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, the 'Gross amounts offset' under cash pooling arrangements is £23 million as at 31 March 2020 (2019: £19 million). Our UK bank accounts for National Grid subsidiaries participate in GBP, EUR and USD Composite Accounting System overdraft facilities subject to offsetting gross and net overdraft limits. 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 2020						
Assets						
Financing derivatives	1,267	–	1,267	(351)	(694)	222
Commodity contract derivatives	75	–	75	(5)	(3)	67
	1,342	–	1,342	(356)	(697)	289
Liabilities						
Financing derivatives	(1,134)	–	(1,134)	351	646	(137)
Commodity contract derivatives	(200)	–	(200)	5	8	(187)
	(1,334)	–	(1,334)	356	654	(324)
	8	–	8	–	(43)	(35)

	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 2019						
Assets						
Financing derivatives	1,052	–	1,052	(299)	(551)	202
Commodity contract derivatives	101	–	101	29	–	130
	1,153	–	1,153	(270)	(551)	332
Liabilities						
Financing derivatives	(1,084)	–	(1,084)	299	615	(170)
Commodity contract derivatives	(99)	–	(99)	(29)	–	(128)
	(1,183)	–	(1,183)	270	615	(298)
	(30)	–	(30)	–	64	34

### 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 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.

The following is a maturity 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
<b>At 31 March 2020</b>					
<i>Non-derivative financial liabilities</i>					
Borrowings, excluding lease liabilities	(3,672)	(2,150)	(1,611)	(22,214)	(29,647)
Interest payments on borrowings <sup>1</sup>	(765)	(750)	(714)	(12,002)	(14,231)
Lease liabilities	(132)	(114)	(99)	(629)	(974)
Other non-interest-bearing liabilities	(3,149)	(318)	–	–	(3,467)
Contingent consideration	(32)	(16)	(32)	(16)	(96)
<i>Derivative financial liabilities</i>					
Financing derivatives – receipts <sup>2</sup>	2,249	986	1,208	3,510	7,953
Financing derivatives – payments <sup>2</sup>	(2,582)	(1,136)	(1,463)	(4,067)	(9,248)
Commodity contract derivatives – receipts <sup>2</sup>	4	2	–	–	6
Commodity contract derivatives – payments <sup>2</sup>	(116)	(50)	(24)	(12)	(202)
<i>Derivative financial assets</i>					
Financing derivatives – receipts <sup>2</sup>	2,469	1,063	570	1,775	5,877
Financing derivatives – payments <sup>2</sup>	(2,271)	(527)	(375)	(1,478)	(4,651)
Commodity contract derivatives – receipts <sup>2</sup>	20	1	1	–	22
Commodity contract derivatives – payments <sup>2</sup>	(21)	–	–	–	(21)
	(7,998)	(3,009)	(2,539)	(35,133)	(48,679)
<b>At 31 March 2019</b>					
<i>Non-derivative financial liabilities</i>					
Borrowings, excluding lease liabilities	(4,129)	(2,348)	(1,998)	(19,673)	(28,148)
Interest payments on borrowings <sup>1</sup>	(800)	(733)	(721)	(13,465)	(15,719)
Lease liabilities	(72)	(63)	(52)	(123)	(310)
Other non-interest-bearing liabilities	(3,306)	(340)	–	–	(3,646)
<i>Derivative financial liabilities</i>					
Financing derivatives – receipts <sup>2</sup>	3,045	1,703	163	2,560	7,471
Financing derivatives – payments <sup>2</sup>	(3,421)	(2,029)	(223)	(3,276)	(8,949)
Commodity contract derivatives – receipts <sup>2</sup>	2	3	1	–	6
Commodity contract derivatives – payments <sup>2</sup>	(98)	(26)	(4)	(1)	(129)
<i>Derivative financial assets</i>					
Financing derivatives – receipts <sup>2</sup>	1,928	561	863	1,112	4,464
Financing derivatives – payments <sup>2</sup>	(1,251)	(459)	(783)	(875)	(3,368)
Commodity contract derivatives – receipts <sup>2</sup>	23	9	2	–	34
Commodity contract derivatives – payments <sup>2</sup>	–	(5)	(1)	–	(6)
	(8,079)	(3,727)	(2,753)	(33,741)	(48,300)

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).

## Notes to the consolidated financial statements

### – supplementary information continued

#### 32. Financial risk management continued

##### (c) Currency risk

National Grid operates internationally with mainly the pound sterling as the functional currency for the UK companies and the 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:

	2020					2019				
	Sterling £m	Euro £m	Dollar £m	Other £m	Total £m	Sterling £m	Euro £m	Dollar £m	Other £m	Total £m
Cash and cash equivalents	18	–	55	–	73	97	2	153	–	252
Financial investments	813	–	1,185	–	1,998	965	–	1,016	–	1,981
Borrowings	(12,407)	(4,150)	(13,217)	(1,020)	(30,794)	(10,591)	(4,787)	(12,126)	(1,226)	(28,730)
<b>Pre-derivative position</b>	<b>(11,576)</b>	<b>(4,150)</b>	<b>(11,977)</b>	<b>(1,020)</b>	<b>(28,723)</b>	<b>(9,529)</b>	<b>(4,785)</b>	<b>(10,957)</b>	<b>(1,226)</b>	<b>(26,497)</b>
Derivative effect	(1,169)	4,341	(4,214)	1,175	133	(1,055)	4,803	(5,245)	1,465	(32)
<b>Net debt position</b>	<b>(12,745)</b>	<b>191</b>	<b>(16,191)</b>	<b>155</b>	<b>(28,590)</b>	<b>(10,584)</b>	<b>18</b>	<b>(16,202)</b>	<b>239</b>	<b>(26,529)</b>

The exposure to dollars largely relates to our net investment hedge activities; exposure to euros largely relates to hedges for our future non-sterling capital expenditure.

The currency exposure on other financial instruments is as follows:

	2020					2019				
	Sterling £m	Euro £m	Dollar £m	Other £m	Total £m	Sterling £m	Euro £m	Dollar £m	Other £m	Total £m
Trade and other receivables	306	–	1,403	–	1,709	398	–	1,635	–	2,033
Trade and other payables	(1,177)	–	(2,002)	–	(3,179)	(1,221)	–	(2,085)	–	(3,306)
Other non-current liabilities	(85)	–	(277)	–	(362)	(93)	–	(247)	–	(340)

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. Gains and losses arising from forward points and 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. 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). Hedge accounting for funding is described further in the interest rate risk section below.

### 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.

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 can impact valuations. We are managing the risk by planning to replace LIBOR cash flows with alternative reference rates on our affected contracts.

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:

	2020					2019				
	Fixed rate £m	Floating rate £m	Inflation linked £m	Other <sup>1</sup> £m	Total £m	Fixed rate £m	Floating rate £m	Inflation linked £m	Other <sup>1</sup> £m	Total £m
Cash and cash equivalents	71	10	–	(8)	73	59	104	–	89	252
Financial investments	–	1,966	–	32	1,998	6	1,944	–	31	1,981
Borrowings	(20,969)	(3,085)	(6,740)	–	(30,794)	(19,043)	(3,045)	(6,642)	–	(28,730)
<b>Pre-derivative position</b>	<b>(20,898)</b>	<b>(1,109)</b>	<b>(6,740)</b>	<b>24</b>	<b>(28,723)</b>	<b>(18,978)</b>	<b>(997)</b>	<b>(6,642)</b>	<b>120</b>	<b>(26,497)</b>
Derivative effect	2,259	(1,892)	(234)	–	133	1,740	(1,559)	(213)	–	(32)
<b>Net debt position</b>	<b>(18,639)</b>	<b>(3,001)</b>	<b>(6,974)</b>	<b>24</b>	<b>(28,590)</b>	<b>(17,238)</b>	<b>(2,556)</b>	<b>(6,855)</b>	<b>120</b>	<b>(26,529)</b>

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 IFRS Interest Rate Benchmark Reform amendments related to hedge accounting, with effect from 1 April 2019. The amendments allow existing hedge designations to continue unchanged during the period of uncertainty relating to the timing and method of benchmark migrations.

The amendments will be applied until the earlier point in time where affected cash flows are amended, the relationship is formally discontinued, and any cash flow hedge reserve balance has been released, or formal market conventions ending uncertainty are 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.

## Notes to the consolidated financial statements

### – supplementary information continued

#### 32. Financial risk management continued

##### (e) Hedge accounting

In accordance with the requirements of IFRS 9, certain additional information about hedge accounting is disaggregated by risk type and hedge designation type in the tables below:

	Fair value hedges of foreign currency and interest rate risk	Cash flow hedges of foreign currency and interest rate risk	Cash flow hedges of foreign currency risk	Net investment hedges
Year ended 31 March 2020	£m	£m	£m	£m
<b>Consolidated statement of comprehensive income</b>				
Net losses in respect of:				
Cash flow hedges		(143)	(17)	–
Cost of hedging	5	(7)	–	(30)
Transferred to profit or loss in respect of:				
Cash flow hedges	–	14	–	–
Cost of hedging	1	(1)	–	(45)
<b>Consolidated statement of changes in equity</b>				
Other equity reserves – cost of hedging balances	2	(8)	–	(43)
<b>Consolidated statement of financial position</b>				
Derivatives – carrying value of hedging instruments <sup>1</sup>				
Assets – current	1	–	4	9
Assets – non-current	247	106	8	–
Liabilities – current	(1)	(105)	(8)	(82)
Liabilities – non-current	(39)	(264)	(12)	(19)
<b>Profiles of the significant timing, price and rate information of hedging instruments</b>				
Maturity range	May 2020 – Feb 2040	Jul 2020 – Dec 2039	Apr 2020 – Dec 2024	Jun 2020 – Sep 2027
Spot foreign exchange range:				
GBP:USD	1.64	1.30 – 1.66	1.24 – 1.41	1.21 – 1.49
GBP:EUR	1.19 – 1.24	1.10 – 1.24	1.04 – 1.30	1.14
EUR:USD	1.13 – 1.17	1.13 – 1.14	n/a	n/a
Interest rate range:				
GBP	LIBOR +30bps/+408bps	1.331% – 5.850%	n/a	n/a
USD	LIBOR -44bps/+ 115bps	1.103% – 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

	Fair value hedges of foreign currency and interest rate risk	Cash flow hedges of foreign currency and interest rate risk	Cash flow hedges of foreign currency risk	Net investment hedges
Year ended 31 March 2019	£m	£m	£m	£m
<b>Consolidated statement of comprehensive income</b>				
Net losses in respect of:				
Cash flow hedges <sup>1</sup>	–	(206)	(12)	–
Cost of hedging	(6)	(12)	–	(90)
Transferred to profit or loss in respect of:				
Cash flow hedges <sup>1</sup>	–	166	–	–
Cost of hedging	3	–	–	39
<b>Consolidated statement of changes in equity</b>				
Other equity reserves – cost of hedging balances	(4)	–	–	32
<b>Consolidated statement of financial position</b>				
Derivatives – carrying value of hedging instruments <sup>2</sup>				
Assets – current	17	–	9	–
Assets – non-current	168	78	23	–
Liabilities – current	(9)	(28)	(3)	(43)
Liabilities – non-current	(25)	(134)	(4)	(249)
<b>Profiles of the significant timing, price and rate information of hedging instruments</b>				
Maturity range	Nov 2019 – May 2038	Aug 2019 – Feb 2039	Apr 2019 – Dec 2023	Mar 2020 – Jun 2025
Spot foreign exchange range:				
GBP:USD	1.64 – 1.65	1.52 – 1.66	1.29 – 1.41	1.49
GBP:EUR	1.19 – 1.24	1.14 – 1.24	1.07 – 1.32	1.15
EUR:USD	1.13 – 1.16	1.13 – 1.14	n/a	n/a
Interest rate range:				
GBP	LIBOR +30bps/+561bps	1.795% – 5.850%	n/a	n/a
USD	LIBOR -44bps/+115bps	1.103% – 3.864%	n/a	n/a

- Following a review in the year, we have changed our presentation of spot foreign exchange movements on derivatives designated in cash flow hedges of foreign currency risk and interest rates. This has no net impact on the consolidated statement of comprehensive income. It has resulted in a prior year gross up of £166 million to net losses in respect of cash flow hedges with an equal and offsetting gross up to transferred to profit and loss in respect of cash flow hedges.
- 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

## – supplementary information continued

### 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 2020		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 <sup>1,2</sup>	(1,751)	(31)	(95)	(42)	48	6

1. The carrying value of the hedged borrowings is £1,883 million, of which £72 million is current and £1,811 million is non-current.

2. Included within the hedging instrument notional balance is £1,675 million impacted by Interest Rate Benchmark Reform amendments.

As at 31 March 2019		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 <sup>1</sup>	(1,707)	11	(117)	15	(10)	5

1. The carrying value of the hedged borrowings was £1,810 million, of which £202 million was current and £1,608 million was non-current. Following a review in the year, we have changed our presentation of spot foreign exchange movements on derivatives designated in fair value hedges of foreign currency risk and interest rates. It has resulted in a prior year equal and offsetting impact of £4 million to the balances used for the 'Change in value used for calculating ineffectiveness'.

(ii) Cash flow hedges of foreign currency and interest rate risk:

As at 31 March 2020		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 <sup>1</sup>	(4,127)	(69)	(22)	142	(143)	(1)
Foreign currency risk on forecasted cash flows	(794)	8	–	17	(17)	–

1. Included within the hedging instrument notional balance is £176 million impacted by Interest Rate Benchmark Reform amendments.

As at 31 March 2019		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 <sup>1</sup>	(3,804)	(17)	51	206	(206)	–
Foreign currency risk on forecasted cash flows	(697)	45	–	12	(12)	–

1. Following a review in the year, we have changed our presentation of spot foreign exchange movements on derivatives designated in cash flow hedges of foreign currency risk and interest rates. This has no net impact on the consolidated statement of comprehensive income. It has resulted in a prior year equal and offsetting impact of £167 million to the balances used for the 'Change in value used for calculating ineffectiveness'.

(iii) Net investment hedges of foreign currency risk:

As at 31 March 2020		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 <sup>1</sup>	(3,064)	45	(2,871)	(6)	6	–

1. Included within the hedging instrument notional balance is £nil impacted by Interest Rate Benchmark Reform amendments.

As at 31 March 2019		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	(2,974)	(329)	(2,502)	550	(550)	–



### 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 finance 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. It is possible that 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.

## Notes to the consolidated financial statements

### – supplementary information continued

#### 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.

	2020				2019			
	Level 1 £m	Level 2 £m	Level 3 £m	Total £m	Level 1 £m	Level 2 £m	Level 3 £m	Total £m
<b>Assets</b>								
Investments held at FVTPL	1,278	–	108	1,386	1,311	–	62	1,373
Investments held at FVOCI	83	352	–	435	93	343	–	436
Investments in associates <sup>1</sup>	–	–	103	103	–	–	90	90
Financing derivatives	–	1,257	10	1,267	–	1,050	2	1,052
Commodity contract derivatives	–	9	66	75	–	33	68	101
	1,361	1,618	287	3,266	1,404	1,426	222	3,052
<b>Liabilities</b>								
Financing derivatives	–	(889)	(245)	(1,134)	–	(868)	(216)	(1,084)
Commodity contract derivatives	–	(136)	(64)	(200)	–	(32)	(67)	(99)
Liabilities held at fair value	(741)	–	–	(741)	(667)	–	–	(667)
Contingent consideration <sup>2</sup>	–	–	(74)	(74)	–	–	–	–
	(741)	(1,025)	(383)	(2,149)	(667)	(900)	(283)	(1,850)
	620	593	(96)	1,117	737	526	(61)	1,202

1. Our Level 3 investments include investments relating to Sunrun Neptune 2016 LLC accounted for at FVTPL.

2. Contingent consideration relates to the acquisition of Geronimo (see note 38).

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 cross-currency swaps, inflation-linked swaps and equity options, 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 in associates include our investment in Sunrun Neptune 2016 LLC, which is accounted for at fair value. 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.

### 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 <sup>3,4</sup>		Total	
	2020 £m	2019 £m	2020 £m	2019 £m	2020 £m	2019 £m	2020 £m	2019 £m
At 1 April	(214)	(219)	1	(1)	152	194	(61)	(26)
Net (losses)/gains for the year <sup>1,2</sup>	(20)	4	6	(16)	26	15	12	3
Purchases	–	–	26	44	51	57	77	101
Acquisition of Geronimo	–	–	–	–	(74)	–	(74)	–
Settlements	(1)	1	(31)	(26)	(18)	(4)	(50)	(29)
Reclassification to held for sale <sup>3</sup>	–	–	–	–	–	(110)	–	(110)
<b>At 31 March</b>	<b>(235)</b>	<b>(214)</b>	<b>2</b>	<b>1</b>	<b>137</b>	<b>152</b>	<b>(96)</b>	<b>(61)</b>

1. Loss of £20 million (2019: £4 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. Loss of £17 million (2019: £21 million loss) is attributable to commodity contract derivative financial instruments held at the end of the reporting period.
3. Relates to our put and call options over our interests in Quadgas, that were classified as held for sale at 31 March 2019.
4. Other comprises our investments in Sunrun Neptune 2016 LLC, Enbala 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 Geronimo (see note 38).

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 <sup>3</sup>	
	2020 £m	2019 £m	2020 £m	2019 £m	2020 £m	2019 £m
10% increase in commodity prices <sup>1</sup>	–	–	2	(1)	–	–
10% decrease in commodity prices <sup>1</sup>	–	–	–	2	–	–
+10% market area price change	–	–	(4)	(10)	–	–
-10% market area price change	–	–	4	10	–	–
+20 basis points change in Limited Price Inflation (LPI) market curve <sup>2</sup>	(95)	(88)	–	–	–	–
-20 basis points change in LPI market curve <sup>2</sup>	90	83	–	–	–	–
+50 basis points change in discount rate	–	–	–	–	(3)	(3)
-50 basis points change in discount rate	–	–	–	–	4	3

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 2020.

The impacts disclosed above were considered on a contract-by-contract basis with the most significant unobservable inputs identified.

## Notes to the consolidated financial statements

### – supplementary information continued

#### 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), regulatory gearing and interest cover. For the year ended 31 March 2020, these metrics for the Group were 9.2% (2019: 9.4%), 63% (2019: 66%) and 4.1x (2019: 4.4x), respectively – see pages 28 and 244 – 245. We believe these are consistent with the current credit ratings for National Grid plc in respect of the main companies of the Group, based on guidance from the rating agencies.

We monitor the RAV gearing within NGET and the regulated transmission businesses within NGG. 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 60% to 62.5%. 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%.

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:

- dividends must be approved in advance by the relevant US state regulatory commission;
- subsidiary must have at least two recognised rating agency credit ratings of at least investment grade;
- dividends must be limited to cumulative retained earnings, including pre-acquisition retained earnings;
- 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 on 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; and
- the percentage of equity compared with total capital of the subsidiary must remain above certain levels.

There is a further restriction relating only to The Narragansett Electric Company, which is required to maintain its consolidated net worth above certain levels.

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 2020 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.

### 33. Borrowing facilities

To support our liquidity requirements and provide backup to commercial paper and other borrowings, we agree loan facilities with financial institutions over and above the value of borrowings that may be required. These committed credit facilities have never been drawn, and our undrawn amounts are listed below.

At 31 March 2020, we had bilateral committed credit facilities of £5,495 million (2019: £5,463 million). In addition, we had committed credit facilities from syndicates of banks of £277 million at 31 March 2020 (2019: £264 million). All committed credit facilities were undrawn in 2020 and 2019. An analysis of the maturity of these undrawn committed facilities is shown below:

	2020 £m	2019 £m
Undrawn committed borrowing facilities expiring:		
Less than 1 year	–	–
In 1 to 2 years	1,940	–
In 2 to 3 years	1,668	2,190
In 3 to 4 years	277	1,668
In 4 to 5 years	1,887	1,869
More than 5 years	–	–
	<b>5,772</b>	<b>5,727</b>

Of the unused facilities at 31 March 2020, £5,495 million (2019: £5,463 million) is available for liquidity purposes, while £277 million (2019: £264 million) is available as backup to specific US borrowings. £1,923 million of the undrawn bilateral facilities due to mature in one to two years, were renegotiated between 1 April and 17 June 2020 with new expiry dates to June 2024. Of the £1,887 million of undrawn committed borrowings facilities due to expire within four to five years, £110 million was renegotiated before 31 March 2020, with the expiry extended by a further year, with effect from 1 June 2020.

For the separately regulated business of National Grid Electricity System Operator Limited, the Group has a facility of £550 million (2019: £550 million). This facility is not available as Group general liquidity support and is not represented in the table above.

In addition to the above, the Group has Export Credit Agreements (ECAs) totalling £901 million (2019: £859 million), of which £233 million (2019: £510 million) is undrawn. Subsequent to the year end, two new ECAs totalling £598 million have been made available and have not been drawn.

# Notes to the consolidated financial statements

## – supplementary information continued

### 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 2020 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 Holdings One plc 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.

#### Incorporated in England and Wales

Registered office: 1 – 3 Strand, London WC2N 5EH, UK (unless stated otherwise in footnotes).

Beegas Nominees Limited  
Birch Sites Limited  
Carbon Sentinel Limited  
Droylsden Metering Services Limited  
Gridcom Limited  
Icelink Interconnector Limited  
Landranch Limited  
Lattice Group Employee Benefit Trust Limited  
**Lattice Group Limited**  
Lattice Group Trustees Limited  
Natgrid Limited  
NatGrid One Limited  
NatgridTW1 Limited  
National Grid Belgium Limited<sup>1</sup>  
National Grid Blue Power Limited<sup>1</sup>  
National Grid Carbon Limited  
**National Grid Commercial Holdings Limited**  
National Grid Distributed Energy Limited  
National Grid Electricity Group Trustee Limited  
**National Grid Electricity System Operator Limited**  
**National Grid Electricity Transmission plc**  
National Grid Energy Metering Limited  
National Grid Four Limited<sup>1</sup>  
National Grid Fourteen Limited<sup>1</sup>  
**National Grid Gas Holdings Limited**  
**National Grid Gas plc**  
**National Grid Grain LNG Limited**  
**National Grid Holdings Limited**  
**National Grid Holdings One plc**  
National Grid IFA 2 Limited  
National Grid Interconnector Holdings Limited  
**National Grid Interconnectors Limited**  
National Grid International Limited  
**National Grid Metering Limited**  
National Grid North Sea Link Limited  
National Grid Offshore Limited (previously NG Shetland Link Limited)  
National Grid Partners Limited

National Grid Plus Limited (previously National Grid Offshore Limited)  
**National Grid Property Holdings Limited**  
National Grid Seventeen Limited<sup>1</sup>  
National Grid Smart Limited  
National Grid Ten  
National Grid Thirty Five Limited<sup>1</sup>  
National Grid Thirty Six Limited  
National Grid Twelve Limited  
National Grid Twenty Eight Limited  
National Grid Twenty-Five Limited<sup>1</sup>  
National Grid Twenty Seven Limited  
National Grid Twenty Three Limited  
National Grid UK Limited  
National Grid UK Pension Services Limited  
**National Grid (US) Holdings Limited**  
National Grid (US) Investments 2 Limited  
**National Grid (US) Investments 4 Limited**  
**National Grid (US) Partner 1 Limited**  
National Grid Ventures Limited  
National Grid Viking Link Limited  
National Grid William Limited  
NG Nominees Limited  
NGC Employee Shares Trustee Limited  
**NGG Finance plc**  
Ngrid Intellectual Property Limited  
NGT Telecom No. 1 Limited<sup>1</sup>  
NGT Two Limited  
Port Greenwich Limited  
Stargas Nominees Limited  
Supergrid Electricity Limited  
Supergrid Energy Transmission Limited  
Supergrid Limited  
Thamesport Interchange Limited  
The National Grid Group Quest Trustee Company Limited  
The National Grid YouPlan Trustee Limited  
Transco Limited  
Warwick Technology Park Management Company (No 2) Limited (60.56%)<sup>2</sup>

1. Registered office: c/o KPMG, 15 Canada Square, London E14 5GL, UK

2. Registered office: Shire Hall, PO Box 9, Warwick CV34 4RL, UK

\* In liquidation.

### 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).

Alden Solar, LLC	Greenbrier Creek Solar, LLC
Altona Solar, LLC	Greentown Solar, LLC
Apple River Solar, LLC	Greenwood Solar, LLC
Apple Solar, LLC	Grid NY, LLC <sup>3</sup>
Arapahoe Solar, LLC	Grindstone Wind Farm, LLC <sup>7</sup>
Argenta Solar, LLC	Hale Solar, LLC
Armenia Solar, LLC	Hampton Solar, LLC
Artemisia Solar, LLC <sup>1</sup>	Handley Road Solar, LLC
Ashland Solar, LLC	Hardeman County Solar, LLC
Athens Solar, LLC	Harmony Solar ND, LLC
Audubon Wind Farm, LLC	Harmony Solar ND 2, LLC
Banner Solar, LLC	Harrington Solar, LLC
Bee Hollow Solar, LLC	Hartley Solar, LLC
Benevolent Solar, LLC	Hearth Solar, LLC
Blaze Solar, LLC	Henderson Solar, LLC
Blue Ridge Wind, LLC	Heyworth Solar, LLC
Blues Solar, LLC	Honeybee Solar, LLC
Blue Stone Solar Energy, LLC	Hoosier Solar, LLC <sup>1</sup>
Bluewater Solar, LLC	Hyacinth Solar, LLC <sup>1</sup>
Boone Solar, LLC	Illumination Solar, LLC
<b>Boston Gas Company<sup>2</sup></b>	Innovation Solar, LLC
Brewster Solar, LLC	Irwin Solar, LLC
Brilliance Solar, LLC	Itasca Energy Development, LLC <sup>3</sup>
British Transco Capital Inc. <sup>3</sup>	Itasca Energy Services, LLC
British Transco Finance, Inc. <sup>3</sup>	Jack Rabbit Wind, LLC
Brock Solar, LLC	Jackson County Solar, LLC
Broken Bridge Corp. <sup>4</sup>	Jantz Solar, LLC
Brook Trout Solar, LLC	Junction Solar, LLC
Brookside Solar, LLC	Kankakee Solar, LLC
Burlington Solar, LLC	Keslinger Solar, LLC
Burr Ridge Wind, LLC	KeySpan CI Midstream Limited <sup>3</sup>
Cage Ranch Solar, LLC	KeySpan Energy Corporation <sup>6</sup>
Cage Ranch Solar II, LLC	KeySpan Energy Services Inc. <sup>3</sup>
Cage Ranch Solar III, LLC	<b>KeySpan Gas East Corporation<sup>6</sup></b>
Caldwell Solar, LLC	KeySpan International Corporation <sup>3</sup>
Caldwell Solar II, LLC	KeySpan MHK, Inc. <sup>3</sup>
Canby Solar, LLC	KeySpan Midstream Inc. <sup>3</sup>
Cattle Ridge Wind Farm 2, LLC	KeySpan Plumbing Solutions, Inc. <sup>6</sup>
Cepheus Community Solar Gardens LLC <sup>1</sup>	Kindle Solar, LLC
Claddagh Solar, LLC <sup>1</sup>	KSI Contracting, LLC <sup>3</sup>
Clear Creek Solar, LLC	KSI Electrical, LLC <sup>3</sup>
Clermont Solar, LLC	KSI Mechanical, LLC <sup>3</sup>
Clinton County Solar, LLC	Lake Iris Solar, LLC
Commonwealth Solar, LLC	Lakeside Solar, LLC
Conestoga Wind, LLC	Lamdin Solar, LLC
Copperhead Solar, LLC	Lamplight Solar, LLC
Crocker Wind Farm 2, LLC	Land Management & Development, Inc. <sup>6</sup>
Cygnus Community Solar Garden, LLC <sup>1</sup>	Landwest, Inc. <sup>6</sup>
Daybreak Solar, LLC	Lansing Solar, LLC
Deer Trail Solar, LLC	Lawrence Solar, LLC
Dekalb Solar, LLC	Leola Wind Farm, LLC
Desoto Solar, LLC	Lilac Solar, LLC <sup>1</sup>
Dodson Creek Solar, LLC	Lindy Solar, LLC
Dorado Community Solar Gardens, LLC <sup>1</sup>	Lockport Solar, LLC
Dorsey Road Solar, LLC	Lordsburg Solar, LLC
East Galesburg Solar, LLC	Lydia Solar, LLC
East Macomb Solar, LLC	Madden Creek Solar, LLC
Eastern Hemlock Solar, LLC	Marigold Community Solar Garden, LLC <sup>1</sup>
Elba Solar, LLC	<b>Massachusetts Electric Company<sup>2</sup></b>
Elburn Solar, LLC	Maverick Wind Farm, LLC
Eldena Solar, LLC	Mazon Solar, LLC
Elk Creek Solar, LLC	McFadden Solar, LLC
Elk Creek Solar 2, LLC	Merton Solar, LLC
Empire Solar, LLC	Metro Energy, LLC <sup>6</sup>
EUA Energy Investment Corporation <sup>2</sup>	Metrowest Realty LLC <sup>3</sup>
Falls City Solar, LLC	Miller Creek Solar, LLC
Firstview Wind Farm, LLC	Morning Glory Solar, LLC <sup>1</sup>
Franklin Solar, LLC	Mottville Solar, LLC
Front Range Wind Farm, LLC	Mountain Laurel Solar, LLC
Fulton Solar, LLC	Mustang Ridge Wind Farm, LLC
Galesburg Solar, LLC	Mystic Steamship Corporation <sup>3</sup>
Genesee Solar Energy, LLC	Nantucket Electric Company <sup>2</sup>
Geronimo Energy LLC	National Grid Algonquin LLC <sup>3</sup>
Geronimo E Wind LLC <sup>5</sup>	National Grid Connect Inc. <sup>3</sup>
Geronimo Solar Energy, LLC <sup>1</sup>	National Grid Development Holdings Corp. <sup>3</sup>
Geronimo Stutsman Wind Farm, LLC	National Grid Electric Services, LLC <sup>3</sup>
Geronimo White Pine Solar, LLC	National Grid Energy Management, LLC <sup>3</sup>
Gladiolus Solar, LLC <sup>1</sup>	National Grid Energy Services LLC <sup>3</sup>
Glenwood Solar, LLC	National Grid Energy Trading Services LLC <sup>6</sup>
Glen Rock Solar, LLC	National Grid Engineering & Survey Inc. <sup>6</sup>
Golden Solar, LLC	<b>National Grid Generation LLC<sup>3</sup></b>
Goldendale Solar, LLC	National Grid Generation Ventures LLC <sup>6</sup>
Goldfinch Solar, LLC	National Grid Glenwood Energy Center, LLC <sup>3</sup>
Granite State Power Link LLC <sup>3</sup>	National Grid IGTS Corp. <sup>6</sup>
Grant Solar, LLC	National Grid Insurance USA Ltd <sup>6</sup>
Grant Solar 2, LLC	National Grid Islander East Pipeline LLC <sup>3</sup>
Grayson Solar, LLC	National Grid LNG GP LLC <sup>3</sup>

# Notes to the consolidated financial statements

## – supplementary information continued

### 34. Subsidiary undertakings, joint ventures and associates continued

#### Subsidiary undertakings continued

##### Incorporated in the US continued

National Grid LNG LLC <sup>3</sup>	River Run Solar, LLC
National Grid LNG LP LLC <sup>3</sup>	Riverside Solar, LLC
National Grid Millennium LLC <sup>3</sup>	Rochester Solar, LLC <sup>1</sup>
National Grid NE Holdings 2 LLC <sup>2</sup>	Rock Falls Solar, LLC
<b>National Grid North America Inc.<sup>3</sup></b>	Rock Ridge Wind Farm, LLC
National Grid North East Ventures Inc. <sup>3</sup>	Ross County Solar, LLC
National Grid Partners Inc. <sup>6</sup>	Royal Solar, LLC
National Grid Partners LLC <sup>3</sup>	Royal Solar 2, LLC
National Grid Port Jefferson Energy Center LLC <sup>3</sup>	Royerton Solar, LLC
National Grid Services Inc. <sup>3</sup>	Saginaw Bay Solar, LLC
National Grid Transmission Services Corporation <sup>2</sup>	Sandstone Creek Solar, LLC
National Grid US 6 LLC <sup>3</sup>	Sandstone Creek Solar 2, LLC
National Grid US LLC <sup>3</sup>	Sawmill Wind Farm, LLC <sup>1</sup>
<b>National Grid USA<sup>3</sup></b>	Silver City Solar, LLC
National Grid USA Service Company, Inc. <sup>2</sup>	Scorpius Community Solar Garden, LLC <sup>1</sup>
Nees Energy, Inc. <sup>2</sup>	Serenity Solar, LLC <sup>1</sup>
New Bremen Solar, LLC	Sheas Lake Solar, LLC
New England Electric Transmission Corporation <sup>4</sup>	Sherco Solar, LLC <sup>1</sup>
New England Energy Incorporated <sup>2</sup>	Silver Lake Solar, LLC
New England Hydro Finance Company, Inc. (53.704%) <sup>2</sup>	Sirius Community Solar Gardens, LLC <sup>1</sup>
New England Hydro-Transmission Corporation (53.704%) <sup>4</sup>	Snowdrop Solar, LLC <sup>1</sup>
New England Hydro-Transmission Electric Company Inc. (53.704%) <sup>2</sup>	Somerset Solar, LLC
<b>New England Power Company<sup>2</sup></b>	South Belleville Solar, LLC
Newport America Corporation <sup>9</sup>	South Macomb Solar, LLC
NGNE LLC <sup>3</sup>	Spotlight Solar, LLC
NGV Emerald Acquisition Co. LLC <sup>3</sup>	Spring Brook Solar, LLC
NGV Emerald Energy Venture Holdings LLC <sup>3</sup>	Springfield Solar Farm, LLC
NGV Emerald Holdings LLC <sup>3</sup>	Springfield Wind Farm, LLC <sup>1</sup>
NGV US Distributed Energy Inc. <sup>3</sup> (previously National Grid Green Homes Inc.)	Springville Solar, LLC
NGV US Transmission Inc. <sup>3</sup> (previously Grid America Holdings Inc.)	St. Thomas Solar, LLC
Niagara Falls Solar, LLC	Stockton Solar, LLC
<b>Niagara Mohawk Energy, Inc.<sup>3</sup></b>	Stony Brook Wind, LLC
<b>Niagara Mohawk Holdings, Inc.<sup>6</sup></b>	Stove Creek Solar, LLC
Niagara Mohawk Power Corporation <sup>6</sup>	Sturgis Solar, LLC
Niobrara Wind, LLC	Sugar Maple Solar, LLC
NM Properties, Inc. <sup>6</sup>	Summit Lake Solar, LLC
Nordic Vos, LLC	Sunbeam Solar, LLC
North Adair Solar, LLC	Sunray Solar, LLC
Northeast Renewable Link LLC <sup>3</sup>	Sunrise Solar, LLC
North East Transmission Co., Inc. <sup>3</sup>	Sycamore Creek Solar, LLC
North Fork Wind, LLC	<b>The Brooklyn Union Gas Company<sup>6</sup></b>
North Rock Solar, LLC	<b>The Narragansett Electric Company<sup>9</sup></b>
North Wonder Lake Solar, LLC	Tilton Solar, LLC
Onton Solar, LLC	Torchlight Solar, LLC <sup>1</sup>
Opinac North America, Inc. <sup>3</sup>	Transgas, Inc. <sup>2</sup>
Oreana Solar, LLC	Uintah Solar, LLC
Patriotic Solar, LLC	Upper Hudson Development Inc. <sup>6</sup>
Pennington Solar, LLC	Valley Appliance and Merchandising Company <sup>9</sup>
Peony Solar, LLC	Vermont Green Line Devco, LLC3 (90%)
Perseus Community Solar Garden, LLC <sup>1</sup>	Vibrant Solar, LLC
Philadelphia Coke Co., Inc. <sup>3</sup>	Virgo Community Solar Gardens, LLC <sup>1</sup>
Piper Solar, LLC	Virtue Solar, LLC
Pipestone Solar, LLC	Vivid Solar, LLC
Pleasant Plains Solar, LLC	Vulpecula Community Solar Garden, LLC <sup>1</sup>
Plum Creek Wind Farm, LLC	Wayfinder Group, Inc. <sup>2</sup>
Plum Creek Wind Farm 2, LLC	Wheatfield Solar, LLC
Polaris Community Solar Garden, LLC <sup>1</sup>	Wild Springs Solar, LLC <sup>1</sup>
Port of the Islands North, LLC <sup>6</sup>	Wildcat Ridge Wind Farm, LLC
Prairie Oasis Solar, LLC	Wilder Junction Wind Farm, LLC
Prairie Rose Wind 2, LLC <sup>1</sup>	Wildhorse Creek Solar, LLC
Prairie Wolf Solar, LLC	Willard Solar, LLC
Prosperity Wind Farm, LLC	Wiregrass Solar, LLC
Prosperity Wind Farm 2, LLC	Wonder Lake Solar, LLC
Radiance Solar, LLC <sup>1</sup>	Woodlands Solar, LLC
Red Rock Solar SD, LLC	Yellowbud Solar, LLC
Regal Solar, LLC	
Regulus Community Solar Gardens, LLC <sup>1</sup>	
Rising Solar, LLC	
River North Solar, LLC	



### 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 Stirling Scales, c/o Charles Reagh, 1959 Upper Water Street, Suite 900, Halifax Nova Scotia, B3J 2N2, Canada

KeySpan Energy Development Co.

##### Incorporated in Hong Kong

Registered office: Level 54, Hopewell Centre, 183 Queen's Road East, Hong Kong

National Grid Hong Kong Limited (previously HK NewCo 2019 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 Jersey

Registered office: 44 Esplanade, St Helier, Jersey JE4 9WG, UK

National Grid Jersey Investments Limited\*\*  
NG Jersey Limited\*\*

##### Incorporated in Luxembourg

Registered office: 412F, Route d'Esch, L-2086, Luxembourg, Grand Duchy of Luxembourg

National Grid Luxembourg Sarl (previously 21 June 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.

Registered office: Prins Bernhardplein 200, 1097 JB, Amsterdam, Netherlands  
National Grid Holdings B.V.\*

##### Incorporated in the Republic of Ireland

Registered office: c/o Moore Stephens Nathans, Third Floor, Ulysses House, 23/24 Foley Street, Dublin 1, D01 W2T2, Ireland

National Grid Company (Ireland) Designated Activity Company (previously  
National Grid Insurance Company (Ireland) Designated Activity Company)\*

1. Registered office: c/o Geronimo Energy LLC, 8400 Normandale Lake Blvd, Suite 1200, Bloomington, MN 55437, 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: Lawyers Incorporating Service, 10 Ferry Street, Suite 313, Concord NH 03301, USA.
5. Registered office: National Registered Agents, Inc., 301 S. Bedford St. Suite 1 Madison, WI 53703, USA.
6. Registered office: Corporation Service Company, 80 State Street, Albany NY 12207-2543, USA.
7. Registered office: National Registered Agents, Inc., 30600 Telegraph Road, Suite2345, Bingham Farms, MI 48025-5720, USA.
8. Registered office: 10710 Town Square Drive NE, Suite 201 Minneapolis, MN 55449, USA.
9. Registered office: Corporation Service Company, 222 Jefferson Boulevard, Suite 200, Warwick RI 02888, USA.

\* In liquidation.

\*\* Entered liquidation 29 April 2020.

## Notes to the consolidated financial statements

### – supplementary information continued

#### 34. Subsidiary undertakings, joint ventures and associates continued

##### Joint ventures

A list of the Group's joint ventures as at 31 March 2020 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%)\*\*\*

##### Nemo Link Limited (50%)

NGET/SPT Upgrades Limited (50%)†

St William Homes LLP (50%)‡

##### Incorporated in the US

Registered office: Corporation Service Company, 251 Little Falls Drive, Wilmington, DE 19808, USA (unless stated otherwise in footnotes).

Clean Energy Generation, LLC (50%)

##### **Emerald Energy Venture LLC (51%)**

Goldendale Energy Storage LLC (50%)

Island Park Energy Center, LLC (50%)

Islander East Pipeline Company, LLC (50%)<sup>3</sup>

LI Energy Storage System, LLC (50%)

LI Solar Generation, LLC (50%)

Swan Lake North Holdings LLC (50%)

##### Incorporated in France

Registered office: 1 Terrasse Bellini, Tour Initiale, TSA 41000 – 9291, Paris La Defense, CEDEX, France

IFA2 SAS (50%)

##### Associates

A list of the Group's associates as at 31 March 2020 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%)<sup>3</sup>

Connecticut Yankee Atomic Power Company (19.5%)<sup>4</sup>

Direct Global Power, Inc. (26%)<sup>3</sup>

Energy Impact Fund LP (9.42%)<sup>5</sup>

Greeneru, Inc. (21.6%)<sup>3</sup>

KHB Venture LLC (33%)<sup>6</sup>

Maine Yankee Atomic Power Company (24%)<sup>7</sup>

##### **Millennium Pipeline Company, LLC (26.25%)<sup>3</sup>**

New York Transco LLC (28.3%)<sup>8</sup>

Nysearch RMLD, LLC (22.63%)

Sunrun Neptune Investor 2016 LLC<sup>3\*\*\*</sup>

Yankee Atomic Electric Company (34.5%)<sup>9</sup>

##### 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 2020 is given below.

##### Incorporated in England and Wales

Registered office: 1 More London Place, London SE1 2AF, UK

Energis plc (33.06%)‡

1. Registered office: Friars House, Manor House Drive, Coventry CV1 2TE, UK.

2. Registered office: Berkeley House, 19 Portsmouth Road, Cobham, Surrey KT11 1JG, UK.

3. Registered office: Corporation Trust Company, 1209 Orange, Wilmington DE 19808, New Castle County, USA.

4. Registered office: Carla Pizzella, 362 Injun Hollow Road, East Hampton CT 06424, USA.

5. Registered office: Harvard Business Services, Inc., 16192 Coastal Highway, Lewes DE 19958, Sussex County, 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.

\*\*\* NGV US Distributed Energy Inc. owns 1,000 Class A Membership Interests.

† 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.

### 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 1E. 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.

	2020		2019	
	Income statement £m	Net assets £m	Income statement £m	Net assets £m
Pensions and other post-retirement benefit liabilities (pre-tax) <sup>1</sup> :				
UK discount rate change of 0.5% <sup>2</sup>	6	877	6	1,064
US discount rate change of 0.5% <sup>2</sup>	10	514	16	688
UK RPI rate change of 0.5% <sup>3</sup>	4	670	4	908
UK long-term rate of increase in salaries change of 0.5%	1	39	1	56
US long-term rate of increase in salaries change of 0.5%	2	47	2	46
UK change of one year to life expectancy at age 654	1	545	1	610
US change of one year to life expectancy at age 65	4	456	4	406
Assumed US healthcare cost trend rates change of 1%	31	507	32	503
Pension assets:				
Change in value of unquoted equities by 10%	–	381	–	415
Change in value of unquoted properties by 10%	–	89	–	107
Change in value of unquoted diversified alternatives by 10%	–	152	–	142
Environmental provision:				
10% change in estimated future cash flows	210	210	165	165

1. The changes shown are a change in the annual pension or other post-retirement benefit service charge and change in the defined benefit obligations.
2. 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 £205 million net assets offset from the buy-in policies purchased in the year, where the accounting value of the buy-in asset is set equal to the associated liabilities.
3. 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 purchased during the year would have a £152 million net assets offset to the above.
4. In the UK, the buy-in policies purchased during the year, and the longevity swap entered into previously, would have a £223 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 2020. 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.

## Notes to the consolidated financial statements

### – supplementary information continued

#### 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 2020 and 2019 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 fair value through profit and loss (FVTPL) and fair value through other comprehensive income; 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.

	2020		2019	
	Income statement £m	Other equity reserves £m	Income statement £m	Other equity reserves £m
Financial risk (post-tax):				
UK RPI change of 0.5% <sup>1</sup>	27	–	27	–
UK interest rates change of 0.5%	14	47	16	13
US interest rates change of 0.5%	5	27	11	44
US dollar exchange rate change of 10% <sup>2</sup>	49	216	53	246

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 £1,319 million (2019: £1,119 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:

	2020		2019	
	Income statement £m	Net assets £m	Income statement £m	Net assets £m
Commodity price risk (post-tax):				
10% increase in commodity prices	26	26	26	26
10% decrease in commodity prices	(27)	(27)	(27)	(27)
Assets and liabilities carried at fair value (post-tax):				
10% fair value change in derivative financial instruments <sup>1</sup>	12	12	(3)	(3)
10% fair value change in commodity contract derivative liabilities	9	9	–	–

1. The effect of a 10% change in fair value assumes no hedge accounting.

### 36. Additional disclosures in respect of guaranteed securities

We have preferred shares that are listed on a US national securities exchange and are guaranteed by other companies in the Group. These guarantors commit 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 companies providing the guarantees, we are required to disclose individual financial information for these companies. We have chosen to include this information in the Group financial statements rather than submitting separate stand-alone financial statements.

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. In order to provide preferred shareholders with information on the financial stability of the company providing the guarantee, we are required to disclose individual financial information for these companies. 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 2020. The combined amounts are presented under IFRS measurement principles. Inter-company 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 2020 – IFRS

	National Grid plc and Niagara Mohawk Power Corporation combined £m
<b>Combined statement of financial position</b>	
Non-current loans to other subsidiaries	363
Non-current assets	8,939
Current loans to other subsidiaries	12,435
Current assets	1,378
Current loans from other subsidiaries	(16,226)
Current liabilities	(1,648)
Non-current loans from other subsidiaries	(2,105)
Non-current liabilities	(5,460)
<b>Net liabilities<sup>1</sup></b>	<b>(2,324)</b>
<b>Equity</b>	<b>(2,324)</b>
<b>Combined income statement – continuing operations</b>	
Revenue	2,365
Operating costs	(2,131)
<b>Operating profit</b>	<b>234</b>
Other income from other subsidiaries	3,888
Other income and costs, including taxation	(428)
<b>Profit after tax</b>	<b>3,694</b>

1. Excluded from net liabilities above are investments in other consolidated subsidiaries with a carrying value of £14,362 million.

### 37. Transition to new accounting standards

#### (a) Transition to IFRS 16

The Group has adopted IFRS 16 'Leases', with effect from 1 April 2019. IFRS 16 introduces a single lease accounting model for lessees (rather than the current distinction between operating and finance leases). A contract is, or contains, a lease, if it provides the right to control the use of an identified asset for a specific period of time in exchange for consideration. The new standard results in our operating leases being accounted for in the consolidated statement of financial position as 'right-of-use' assets with corresponding lease liabilities also recognised. It therefore increases both our assets and liabilities (including net debt). It also changes the timing and presentation in the consolidated income statement as it results in an increase in finance costs and depreciation largely offset by a reduction in the previously straight-line operating costs.

#### Transition options

We have applied IFRS 16 using the modified retrospective approach. Comparatives have not been restated on adoption. Instead, on the opening balance sheet date, right-of-use assets (net of accrued rent or rent-free periods, and reported within property, plant and equipment), additional lease liabilities (reported within borrowings) and any associated deferred tax have been recognised, with no cumulative transition adjustment to reflect through retained earnings. 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 as permitted by IFRS 16.

## Notes to the consolidated financial statements

### – supplementary information continued

#### 37. Transition to new accounting standards continued

##### (a) Transition to IFRS 16 continued

We elected to apply the practical expedient to grandfather our previous assessments of whether contracts were previously accounted for as a lease, as permitted by the standard, instead of reassessing all significant contracts as at the date of initial application to determine whether they met the IFRS 16 definition of a lease.

We have elected to apply the practical expedient on transition, which permits right-of-use assets to be measured at an amount equal to the lease liability on adoption of the standard (adjusted for any prepaid or accrued lease expenses).

In addition, we have also elected the option to adjust the carrying amounts of the right-of-use assets as at 1 April 2019 for any onerous lease provisions that had been recognised on the Group consolidated statement of financial position as at 31 March 2019, rather than performing impairment assessments on transition.

##### Impact of transition

At 31 March 2019, the Group disclosed non-cancellable operating lease commitments of £0.3 billion, of which the majority were in the US. A further £0.4 billion of lease liabilities were recognised due to the requirement in IFRS 16 to recognise lease liabilities for the term that we are reasonably certain to exercise lease extension or lease termination options for, rather than only for the period of the minimum contractual term that was used in determining our lease liability commitments. This was partially offset by the £0.2 billion impact of discounting our lease liabilities at the incremental borrowing rate for each lease. The weighted average discount rate applied to lease liabilities recognised on the transition date was 2.8%. There were some immaterial short-term and low-value leases, which will be recognised on a straight-line basis as an expense in the consolidated income statement over the remaining lease term.

As a result, the Group has recognised additional right-of-use assets of £0.5 billion and lease liabilities (which are included within net debt) of £0.5 billion at 1 April 2019. No additional net deferred tax has arisen. The transition adjustment is in addition to the £270 million of finance leases already recognised on the consolidated statement of financial position under IAS 17. There has been no impact on net assets as shown in the table below, which shows the impacted balances from the Group consolidated statement of financial position.

	31 March 2019 As previously reported £m	IFRS 16 transition adjustments £m	1 April 2019 As restated £m
<b>Impact of transition</b>			
<i>Property, plant and equipment – Right-of-use assets</i>			
Land and buildings	2,560	381	<b>2,941</b>
Plant and machinery	36,589	67	<b>36,656</b>
Assets in the course of construction	4,425	–	<b>4,425</b>
Motor vehicles and office equipment	339	20	<b>359</b>
Total property, plant and equipment	43,913	468	<b>44,381</b>
<i>Borrowings – Lease liabilities</i>			
Current	(65)	(48)	<b>(113)</b>
Non-current	(205)	(426)	<b>(631)</b>
Total lease liabilities	(270)	(474)	<b>(744)</b>
<i>Other liabilities</i>			
Trade and other payables	(3,769)	3	<b>(3,766)</b>
Other non-current liabilities	(808)	3	<b>(805)</b>
<b>Net assets</b>	<b>19,369</b>	<b>–</b>	<b>19,369</b>
Equity			
<b>Total equity</b>	<b>19,369</b>	<b>–</b>	<b>19,369</b>

The impact of IFRS 16 on profit after tax as a result of adopting the new standard is not material. However, it has resulted in an increase in operating profit due to the operating costs now being replaced with depreciation and interest charges.

The impact on the cash flow statement has also not been material, although there has been an increase in operating cash flows and decrease in financing cash flows, because repayment of the principal portion of the lease liabilities is now classified as cash flows from financing activities rather than operating cash flows.

##### Ongoing accounting policy

With effect from 1 April 2019, 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, plus any other costs. 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. 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.

### 37. Transition to new accounting standards continued

#### (b) Transition to IFRS 9 and IFRS 15

On 1 April 2018, the Group adopted IFRS 9 and IFRS 15. Both standards were applied using the modified retrospective approach whereby comparative amounts were not restated on transition, but a cumulative adjustment was made to retained earnings in the opening consolidated statement of financial position as at 1 April 2018. The impact of the transition on the opening consolidated statement of financial position is set out in the following table:

Impact of transition	31 March 2018 As previously reported £m	Transition adjustments		1 April 2018 £m
		IFRS 9 £m	IFRS 15 £m	
<b>Non-current assets</b>				
Goodwill	5,444	–	–	<b>5,444</b>
Other intangible assets	899	–	–	<b>899</b>
Property, plant and equipment	39,853	–	–	<b>39,853</b>
Other non-current assets	115	–	–	<b>115</b>
Pension assets	1,409	–	–	<b>1,409</b>
Financial and other investments	899	– <sup>1</sup>	–	<b>899</b>
Investments in joint ventures and associates	2,168	–	–	<b>2,168</b>
Derivative financial assets	1,319	–	–	<b>1,319</b>
Total non-current assets	52,106	–	–	<b>52,106</b>
<b>Current assets</b>				
Inventories and current intangible assets	341	–	–	<b>341</b>
Trade and other receivables	2,798	– <sup>2</sup>	(3)	<b>2,795</b>
Current tax assets	114	–	–	<b>114</b>
Financial and other investments	2,694	– <sup>1</sup>	–	<b>2,694</b>
Derivative financial assets	405	–	–	<b>405</b>
Cash and cash equivalents	329	–	–	<b>329</b>
Total current assets	6,681	–	(3)	<b>6,678</b>
<b>Total assets</b>	<b>58,787</b>	<b>–</b>	<b>(3)</b>	<b>58,784</b>
<b>Current liabilities</b>				
Borrowings	(4,447)	–	–	<b>(4,447)</b>
Derivative financial liabilities	(401)	–	–	<b>(401)</b>
Trade and other payables	(3,453)	–	59 <sup>7</sup>	<b>(3,394)</b>
Contract liabilities	–	–	(53) <sup>7</sup>	<b>(53)</b>
Current tax liabilities	(123)	–	–	<b>(123)</b>
Provisions	(273)	–	–	<b>(273)</b>
Total current liabilities	(8,697)	–	6	<b>(8,691)</b>
<b>Non-current liabilities</b>				
Borrowings	(22,178)	(32) <sup>3</sup>	–	<b>(22,210)</b>
Derivative financial liabilities	(660)	–	–	<b>(660)</b>
Other non-current liabilities	(1,317)	–	567 <sup>7</sup>	<b>(750)</b>
Contract liabilities	–	–	(813) <sup>7</sup>	<b>(813)</b>
Deferred tax liabilities	(3,636)	5 <sup>4</sup>	74 <sup>8</sup>	<b>(3,557)</b>
Pensions and other post-retirement benefit obligations	(1,672)	–	–	<b>(1,672)</b>
Provisions	(1,779)	–	–	<b>(1,779)</b>
Total non-current liabilities	(31,242)	(27)	(172)	<b>(31,441)</b>
<b>Total liabilities</b>	<b>(39,939)</b>	<b>(27)</b>	<b>(166)</b>	<b>(40,132)</b>
<b>Net assets</b>	<b>18,848</b>	<b>(27)</b>	<b>(169)</b>	<b>18,652</b>
<b>Equity</b>				
Share capital	452	–	–	<b>452</b>
Share premium account	1,321	–	–	<b>1,321</b>
Retained earnings	21,599	(99) <sup>5</sup>	(169) <sup>9</sup>	<b>21,331</b>
Other equity reserves	(4,540)	72 <sup>6</sup>	–	<b>(4,468)</b>
<b>Total shareholders' equity</b>	<b>18,832</b>	<b>(27)</b>	<b>(169)</b>	<b>18,636</b>
Non-controlling interests	16	–	–	<b>16</b>
<b>Total equity</b>	<b>18,848</b>	<b>(27)</b>	<b>(169)</b>	<b>18,652</b>

## Notes to the consolidated financial statements

### – supplementary information continued

#### 37. Transition to new accounting standards continued

##### (b) Transition to IFRS 9 and IFRS 15 continued

##### IFRS 9: Financial Instruments

IFRS 9 has changed the rules concerning the classification and measurement of financial instruments, impairment of financial assets, and hedge accounting. Details of the impact of applying IFRS 9 for the year ended 31 March 2019 are set out below.

Adjustments arising in the year ended 31 March 2019 as a result of the transition to IFRS 9:

1. The available-for-sale category for financial assets was replaced with investments held at fair value through profit and loss (FVTPL) and investments held at fair value through other comprehensive income (FVOCI). Changes to the classification and measurement of financial assets did not alter the carrying value of any financial assets held by the Group. The net impact to retained earnings of the reclassification on transition was an £8 million gain.

As described in note 15, all recognised financial assets that are within the scope of IFRS 9 are initially recorded at fair value and subsequently measured at amortised cost or fair value based on the Group's business model for managing the financial assets and the contractual cash flow characteristics of the financial assets. Therefore on 1 April 2018, the Group reclassified its investments as follows:

- Money market funds and fund investments held by captive insurance companies were classified as financial assets at FVTPL because their contractual cash flows are not solely payments of principal and interest;
- Investments in debt securities that have contractual payments that are solely payments of principal and interest, and which are held as part of the liquidity portfolio or to back employee benefit liabilities, were classified as financial assets at FVOCI because they are held in a business model whose objective is to collect the contractual cash flows and to sell the debt instruments;
- The Group has elected to hold investments in equity securities, which are held to back employee benefit liabilities, as financial assets at FVOCI as the Group does not believe that changes in their fair value is reflective of the financial performance of the Group; and
- Loans to joint ventures and associates, cash at bank, and short-term deposits are classified at amortised cost as they have contractual cash flows which are solely payments of principal and interest and the Group holds them to collect contractual cash flows.

Aside from derivative financial instruments, which remain classified as FVTPL, the Group did not previously have any financial assets or liabilities classified at FVTPL.

The table below illustrates those financial assets and liabilities that were reclassified at 1 April 2018:

Financial asset/liability	Note	Original measurement category under IAS 39	New measurement category under IFRS 9	Original carrying amount under IAS 39 £m	Change to measurement basis under IFRS 9 £m	New carrying amount under IFRS 9 £m
Money market funds and fund investments in equities and bonds	15	Available-for-sale investments	Financial assets at FVTPL	2,294	–	2,294
Cash surrender value of life insurance policies and investments in debt securities	15	Available-for-sale investments	Financial assets at FVOCI	343	–	343
Investments in equity securities	15	Available-for-sale investments	Financial assets at FVOCI (equity instruments)	84	–	84
Loans to joint ventures and associates and restricted balances	15	Loans and receivables	Financial assets at amortised cost	872	–	872
Borrowings	21	Financial liabilities at amortised cost	Financial liabilities at fair value through profit and loss	(570)	(32)	(602)

Note that the table above does not include derivative assets, derivative liabilities, trade receivables, cash at bank and short-term deposits, borrowings measured at amortised cost or trade payables. This is because neither the classification nor the measurement of these items has changed on transition to IFRS 9.

2. The change from the incurred loss impairment model of IAS 39 to the expected loss model in IFRS 9 did not have a material impact on the Group's credit loss provision. The Group calculates its impairment provision on trade receivables using a sophisticated provisions matrix. The inclusion of forward-looking information did not have a significant impact on the matrix as the relevant short-term future economic conditions affecting our retail customers in the US are expected to be similar to recent experience.
3. The Group elected to reclassify an existing liability with a carrying value of £570 million from amortised cost to fair value through profit and loss to reduce a measurement mismatch. At transition, the resultant impacts included an increase in the carrying value of the liability of £32 million, a reduction in retained earnings of £40 million and the establishment of an own credit reserve (within other equity reserves) of £7 million.
4. Deferred tax was recognised on the adjustments recorded on the transition to IFRS 9. Reserve impacts are stated net of related deferred tax.
5. Retained earnings included the impact from adjustments 1, 3 and 6.
6. The Group adopted the hedge accounting requirements of IFRS 9, which more closely align with the Group's risk management policies. On transition, it was concluded that all IAS 39 hedge relationships are qualifying IFRS 9 relationships with the treatment of the cost of hedging being the main change. The effect was a reclassification in reserves of a £67 million gain from retained earnings and a £10 million gain from the cash flow hedge reserve, into a new cost of hedging reserve (within other equity reserves). In this reserve, qualifying unrealised gains and losses excluded from hedging relationships are deferred and released systematically into profit or loss to match the timing of hedged items.



### 37. Transition to new accounting standards continued

#### (b) Transition to IFRS 9 and IFRS 15 continued

##### IFRS 15: Revenue from Contracts with Customers

IFRS 15 has primarily changed the accounting for our connection and diversion revenues in our regulated businesses. No practical expedients on transition were applied.

The accounting for revenue under IFRS 15 did not represent a substantive change from the Group's previous practice under IAS 18 for recognising revenue from sales to customers with the exception of the following items:

- Certain pass-through revenues (principally revenues collected on behalf of the Scottish and Offshore transmission operators) were recorded net of operating costs, whereas previously they were recognised gross of operating costs. Had we not adopted IFRS 15, our revenues and operating costs for the year ended 31 March 2019 would have been £1,197 million higher, with no impact to operating profits;
- Contributions for capital works relating to connections for our customers were deferred as contract liabilities on our consolidated statement of financial position on transition, and released over the life of the connection assets. This was a change for our US Regulated business and our UK Gas Transmission business, where previously revenues were recorded once the work was completed. Had we not adopted IFRS 15, our revenues and operating profit for the year ended 31 March 2019 would have been £57 million higher; and
- In the UK, contributions for capital works relating to diversions were recognised as the works are completed. This was a change for the UK regulated businesses where revenues were previously deferred over the life of the asset. Had we not adopted IFRS 15, our revenues and operating profit for the year ended 31 March 2019 would have been £26 million and £23 million lower, respectively.

Adjustments arising in the year ended 31 March 2019 as a result of the transition to IFRS 15:

7. Deferred income from contributions for capital works were reclassified to contract liabilities. In addition, these liabilities for capital works relating to connections have increased as these capital contributions for connections were cumulatively adjusted for on 1 April 2018 and are now deferred and released over the life of the connection assets. This was a change for our US Regulated business and our UK Gas Transmission business where previously revenues were recorded once the work was completed.

Partially offsetting the increase in contract liabilities for connections was the change in accounting treatment for contributions relating to diversions in our UK businesses. These contributions are recognised as revenue as the works are completed where previously revenue was recognised over the life of the assets.

8. Deferred tax was recorded on the incremental amounts recorded against capital contributions and contract liabilities on the transition to IFRS 15. Deferred tax balances have been calculated at the rate substantially enacted at the balance sheet date.
9. The transition adjustment reflected the net of adjustments 7 and 8 above.

## Notes to the consolidated financial statements

### – supplementary information continued

#### 38. Acquisition of Geronimo Energy LLC and Emerald Energy Venture LLC

On 11 July 2019, National Grid Ventures acquired 100% of the share capital of Geronimo Energy LLC (Geronimo) and 51% of Emerald Energy Venture LLC (Emerald), which is jointly controlled by National Grid and Washington State Investment Board (WSIB). Geronimo is a leading developer of wind and solar generation based in Minneapolis in the US, and the acquisition is a significant step in National Grid's commitment to the decarbonisation agenda, towards developing and growing a large-scale renewable generation business in the US, and delivering sustainable, reliable and efficient energy. This is National Grid's first ownership stake in wind generation and an expansion of our activities in solar generation. Whilst Geronimo develops the assets, Emerald has a right of first refusal to buy, build and operate those assets.

The total consideration was £209 million, satisfied by a combination of cash and contingent consideration. The contingent consideration has been recorded within trade and other payables for the amount payable within one year, with the remainder recorded within other non-current liabilities. The fair value of contingent consideration recognised is determined as the present value of our best estimate of the value that we will be required to pay, taking into consideration management's estimates of the volume of successful development activity by Geronimo over the relevant period.

The fair values of the assets and liabilities recognised from both the acquisition of the subsidiary, Geronimo, and the joint venture, Emerald, are set out below.

	£m
Intangible assets	5
Property, plant and equipment	1
Investment in joint venture – Emerald	90
Cash	2
Other identifiable assets and liabilities	30
Total identifiable assets	128
Goodwill	81
Total consideration transferred	209
Satisfied by:	
Contingent consideration – Geronimo	70
Cash consideration – Geronimo	49
Cash consideration – Emerald	90
	209

The goodwill arising from the acquisition comprises the value associated with the potential future projects that will be developed by Geronimo as well as the expertise of the management team that have been acquired, neither of which qualify for recognition as tangible or intangible assets. At the acquisition date, there were no material contingent liabilities.

Subsequent to the acquisition date, we made an additional capital contribution of £50 million into Emerald.

Total acquisition-related costs of £3 million have been recognised within operating costs within the consolidated income statement, of which £1 million was recognised in the year ended 31 March 2020.

Geronimo earns revenue from selling its development stage assets to Emerald and other third parties. Emerald generates revenue from the assets it purchases from Geronimo once they are operational and has no other business (see note 16). Neither entity has generated significant revenues or profits for the period between the acquisition date and the reporting date. Even if the acquisition had completed on 1 April 2019, there would have been no significant revenues or profits.

#### 39. Post balance sheet events

In the period between 31 March 2020 and 17 June 2020, there have continued to be substantial environmental, economic and social changes in both the UK and US. As described elsewhere in these Annual Report and Accounts, these have had, and will continue to have, significant ramifications for the Group. Other than as disclosed in respect of those areas where forward-looking forecasts are relevant (notably goodwill impairment reviews (note 11), expected credit losses on financial instruments including trade receivables (notes 19 and 32) and the presumption of the going concern basis generally (note 1)), none of these developments have impacted or caused adjustment to the financial statements.

## 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 2020 were approved by the Board of Directors on 17 June 2020. 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 EU, 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 an 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 2019 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.

As described further in note 1 to the consolidated financial statements, the Directors have considered the impact of COVID-19 on the Group and on the Company, and have concluded that the Company will have adequate resources to continue in operation for at least 12 months from the signing date of these financial statements. Therefore, they continue to adopt the going concern basis of accounting in preparing the financial statements.

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'.

The Company has adopted IFRS 16 with effect from 1 April 2019. The adoption of IFRS 16 has had no impact on the Company.

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 net realisable value 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.

## Company accounting policies continued

### 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 with a corresponding increase in the carrying value of the investment.

### 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.

### 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 88 to 108.

## Company balance sheet as at 31 March

	Notes	2020 £m	2019 £m
<b>Fixed assets</b>			
Investments	1	14,362	9,923
<b>Current assets</b>			
Debtors (amounts falling due within one year)	2	12,427	12,625
Debtors (amounts falling due after more than one year)	2	398	358
Investments	5	752	895
Cash at bank and in hand		2	75
<b>Total current assets</b>		13,579	13,953
Creditors (amounts falling due within one year)	3	(16,836)	(15,529)
<b>Net current liabilities</b>		(3,257)	(1,576)
<b>Total assets less current liabilities</b>		11,105	8,347
Creditors (amounts falling due after more than one year)	3	(2,620)	(2,648)
<b>Net assets</b>		8,485	5,699
<b>Equity</b>			
Share capital	7	470	458
Share premium account		1,301	1,314
Cash flow hedge reserve		(28)	1
Cost of hedging reserve		(6)	–
Other equity reserves		399	380
Profit and loss account	8	6,349	3,546
<b>Total shareholders' equity</b>		8,485	5,699

The Company's profit after tax for the year was £3,684 million (2019: £202 million loss). Profits available for distribution by the Company to shareholders were in excess of £5 billion at 31 March 2020. The financial statements of the Company on pages 209 to 215 were approved by the Board of Directors on 17 June 2020 and were signed on its behalf by:

**Sir Peter Gershon** Chairman  
**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 2018	452	1,321	2	–	353	4,892	7,020
Loss for the year	–	–	–	–	–	(202)	(202)
<i>Other comprehensive loss for the year</i>							
Transferred from equity (net of tax)	–	–	(1)	–	–	–	(1)
Total comprehensive loss for the year	–	–	(1)	–	–	(202)	(203)
<i>Other equity movements</i>							
Scrip dividend-related share issue <sup>1</sup>	6	(7)	–	–	–	–	(1)
Issue of treasury shares	–	–	–	–	–	18	18
Purchase of own shares	–	–	–	–	–	(2)	(2)
Share awards to employees of subsidiary undertakings	–	–	–	–	27	–	27
Equity dividends	–	–	–	–	–	(1,160)	(1,160)
At 31 March 2019	458	1,314	1	–	380	3,546	5,699
Profit for the year <sup>2</sup>	–	–	–	–	–	3,684	3,684
<i>Other comprehensive (loss)/profit for the year</i>							
Transferred from equity (net of tax)	–	–	(29)	(6)	–	–	(35)
Total comprehensive (loss)/profit for the year	–	–	(29)	(6)	–	3,684	3,649
<i>Other equity movements</i>							
Scrip dividend-related share issue <sup>1</sup>	12	(13)	–	–	–	–	(1)
Issue of treasury shares	–	–	–	–	–	17	17
Purchase of own shares	–	–	–	–	–	(6)	(6)
Share awards to employees of subsidiary undertakings	–	–	–	–	19	–	19
Equity dividends	–	–	–	–	–	(892)	(892)
<b>At 31 March 2020</b>	<b>470</b>	<b>1,301</b>	<b>(28)</b>	<b>(6)</b>	<b>399</b>	<b>6,349</b>	<b>8,485</b>

1. Included within the share premium account are costs associated with scrip dividends.

2. Included within profit for the year is dividend income from subsidiaries of £3,887 million (2019: £nil).

## Notes to the Company financial statements

### 1. Fixed asset investments

	Shares in subsidiary undertakings £m
At 1 April 2018	9,896
Additions	27
At 31 March 2019	9,923
Additions	7,011
Disposals	(2,572)
<b>At 31 March 2020</b>	<b>14,362</b>

During the year there was a capital contribution of £19 million (2019: £27 million) which represents the fair value of equity instruments granted to subsidiaries' employees arising from equity-settled employee share schemes.

Furthermore, the Company made a further investment of £2,000 million in National Grid (US) Holdings Limited, following a rights issue by that company; acquired National Grid (US) Investments 2 Limited from an indirect subsidiary undertaking for £2,420 million; and disposed of its investments in National Grid Holdings One plc and National Grid (US) Investments 2 Limited in exchange for an investment in National Grid Luxembourg Sarl at a cost of £2,572 million.

The Company's direct subsidiary undertakings as at 31 March 2020 were as follows: National Grid (US) Holdings Limited; NGG Finance plc; and National Grid Luxembourg Sarl. 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

	2020 £m	2019 £m
<i>Amounts falling due within one year</i>		
Derivative financial instruments (see note 4)	37	110
Amounts owed by subsidiary undertakings	12,390	12,514
Prepayments and accrued income	–	1
	<b>12,427</b>	12,625
<i>Amounts falling due after more than one year</i>		
Derivative financial instruments (see note 4)	27	–
Amounts owed by subsidiary undertakings	363	358
Deferred tax	8	–
	<b>398</b>	358

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 2018	(1)
Credited to equity	1
At 31 March 2019	–
Charged to equity	8
<b>At 31 March 2020</b>	<b>8</b>

## Notes to the Company financial statements continued

### 3. Creditors

	2020 £m	2019 £m
<i>Amounts falling due within one year</i>		
Borrowings (see note 6)	666	1,275
Derivative financial instruments (see note 4)	278	92
Amounts owed to subsidiary undertakings	15,834	14,104
Other creditors	58	58
	<b>16,836</b>	15,529
<i>Amounts falling due after more than one year</i>		
Borrowings (see note 6)	355	346
Derivative financial instruments (see note 4)	160	228
Amounts owed to subsidiary undertakings	2,105	2,074
	<b>2,620</b>	2,648
<i>Amounts owed to subsidiary undertakings falling due after more than one year are repayable as follows:</i>		
In 1 to 2 years	–	1,077
In 4 to 5 years	443	–
More than 5 years	1,662	997
	<b>2,105</b>	2,074

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:

	2020			2019		
	Assets £m	Liabilities £m	Total £m	Assets £m	Liabilities £m	Total £m
Amounts falling due within one year	37	(278)	(241)	110	(92)	18
Amounts falling due after more than one year	27	(160)	(133)	–	(228)	(228)
	<b>64</b>	<b>(438)</b>	<b>(374)</b>	110	(320)	(210)

For each class of derivative, the notional contract<sup>1</sup> amounts are as follows:

	2020 £m	2019 £m
Interest rate swaps	–	(1,208)
Cross-currency interest rate swaps	(3,804)	(2,900)
Foreign exchange forward contracts	(7,886)	(7,920)
	<b>(11,690)</b>	(12,028)

1. The notional contract amounts of derivatives indicate the gross nominal value of transactions outstanding at the balance sheet date.

### 5. Investments

	2020 £m	2019 £m
Investments in short-term money funds	572	672
Restricted balances – collateral	180	223
	<b>752</b>	895



## 6. Borrowings

The following table analyses the Company's total borrowings:

	2020 £m	2019 £m
<i>Amounts falling due within one year</i>		
Bank loans	46	–
Bonds	2	435
Commercial paper	618	840
	666	1,275
<i>Amounts falling due after more than one year</i>		
Bonds	355	346
	1,021	1,621

The maturity of total borrowings is as follows:

	2020 £m	2019 £m
Total borrowings are repayable as follows:		
Less than 1 year	666	1,275
In 1 to 2 years	355	–
In 2 to 3 years	–	346
In 3 to 4 years	–	–
In 4 to 5 years	–	–
More than 5 years	–	–
	1,021	1,621

The notional amount of borrowings outstanding as at 31 March 2020 was £1,018 million (2019: £1,618 million).

## 7. Share capital

The called-up share capital amounting to £470 million (2019: £458 million) consists of 3,780,237,016 ordinary shares of 12<sup>204/473</sup> pence each (2019: 3,687,483,073 ordinary shares of 12<sup>204/473</sup> 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 2020, the profit and loss account reserve stood at £6,349 million (2019: £3,546 million) of which profits available for distribution by the Company to shareholders were in excess of £5 billion at 31 March 2020. The Company bore no employee costs in either the current or prior year.

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 2020, the sterling equivalent amounted to £2,169 million (2019: £2,152 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 £27,000 (2019: £26,000). 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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# 4.

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## The business in detail

### Key milestones

Some of the key dates and actions in the corporate history of National Grid are listed below. Our full history goes back much further.

#### 1986

British Gas (BG) privatisation

#### 1990

Electricity transmission network in England and Wales transfers to National Grid on electricity privatisation

#### 1995

National Grid listed on the London Stock Exchange

#### 1997

Centrica demerges from BG

Energis demerges from National Grid

#### 2000

Lattice Group demerges from BG and is listed separately

New England Electric System and Eastern Utilities Associates acquired

#### 2002

Niagara Mohawk Power Corporation merges with National Grid in US

National Grid and Lattice Group merge to form National Grid Transco

#### 2004

UK wireless infrastructure network acquired from Crown Castle International Corp

#### 2005

Four UK regional gas distribution networks sold and we adopt National Grid as our name

#### 2006

Rhode Island gas distribution network acquired

#### 2007

UK and US wireless infrastructure operations and the Basslink electricity interconnector in Australia sold

KeySpan Corporation acquired

#### 2008

Ravenswood generation station sold

#### 2010

Rights issue raises £3.2 billion

#### 2012

New Hampshire electricity and gas distribution businesses sold

#### 2016

National Grid separates the UK Gas Distribution business

#### 2017

National Grid sells a 61% equity interest in the UK Gas Distribution business

#### 2019

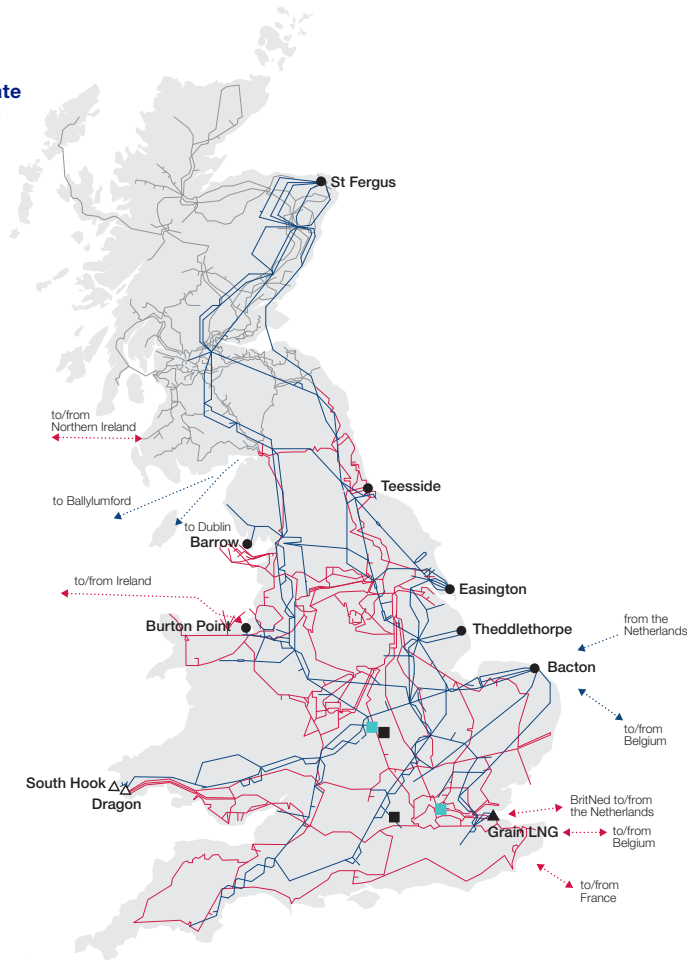
National Grid separates the UK Electricity System Operator business

National Grid sells its remaining 39% equity interest in UK Gas Distribution business

Acquisition of Geronimo

## The business in detail continued

### Where we operate Our UK network



#### UK Transmission<sup>1</sup>

— Scottish electricity transmission system

— English and Welsh electricity transmission system

Approximately 4,481 miles (7,212 kilometres) of overhead line, 1,391 miles (2,239 kilometres) of the underground cable and 347 substations.

— Gas transmission system

Approximately 4,740 miles (7,630 kilometres) of high-pressure pipe and 24 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

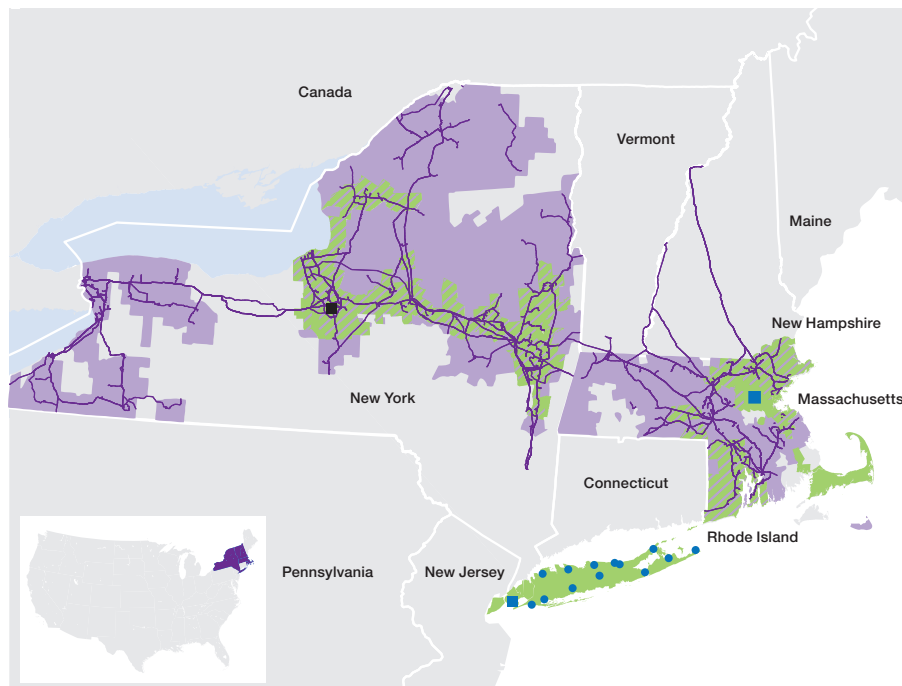
#### Principal offices

■ Owned office space: Warwick and Wokingham

■ Leased office space<sup>2</sup>: Solihull and London

Leased office space totalling 134,704 square feet (12,515 square metres) with remaining terms three to six years.

### Our US network



#### US regulated<sup>1</sup>

— Electricity transmission network

— Gas distribution operating area

— Electricity distribution area

— Gas and electricity distribution area overlap

An electricity transmission network of approximately 9,109 miles (14,659 kilometres) of overhead line, 105 miles (169 kilometres) of underground cable and 396 transmission substations.

An electricity distribution network of approximately 73,004 circuit miles (117,488 kilometres) and 730 distribution substations in New England and upstate New York.

A network of approximately 35,682 miles (57,425 kilometres) of gas pipeline. Our network also consists of approximately 498 miles (801 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

Leased office space totalling approximately 635,000 square feet (58,993 square metres) with remaining terms of five to nine years.

In January 2020, we announced we had executed a lease for 86,000 square feet (7,990 square metres) of office space at 2 Hanson Place, Downtown Brooklyn, New York. The lease is anticipated to commence in January 2021. We will begin to exit our current One MetroTech Brooklyn location in phases at the end of the calendar year 2020. Space anticipated to be vacated is being marketed for sub-lease. The MetroTech lease terminates in February 2025 and will not be renewed.

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.
2. The Warwick (Telent) building lease was terminated on a break clause and was vacated on 24 December 2019.

## UK regulation

Our licences to participate in transmission 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. Licensees and other affected parties can appeal licence modifications which have errors, including in respect of financeability. 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.

The 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;
- innovate so we can continuously improve the services we give our customers, stakeholders and communities; and
- efficiently balance the transmission networks to support the wholesale markets.

The main price controls for electricity and gas transmission networks came into effect on 1 April 2013 for the eight-year period until 31 March 2021. They follow the RIIO (revenue = incentives + innovation + outputs) framework established by Ofgem.

Following the sale of a majority interest in the National Grid UK Gas Distribution business (now known as Cadent) on 31 March 2017, Cadent now has responsibility for operating within the price controls relating to its four gas distribution networks. In November 2018, we announced our decision to exercise our Options for the sale of our remaining 39% share in Cadent and this completed in June 2019.

Our UK gas and electricity transmission and system operator businesses operate under four separate price controls. These comprise two for our electricity operations, one covering our role as Transmission Owner (TO) and the other for our role as System Operator (SO), and two for our gas operations, again one as TO and one as SO. In addition to the 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 also regulation of our electricity interconnector interests.

In 2017 Ofgem, the Department for Business, Energy and Industrial Strategy (BEIS) and National Grid plc agreed to create a legally separate business, the Electricity System Operator (ESO), within the National Grid Group. The ESO became a separate entity within the Group on 1 April 2019.

A primary goal of 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 new price control arrangements for RIIO-2 are therefore an opportunity to implement a new regulatory framework that enables us to meet our stakeholders' expectations.

In April 2018, Ofgem introduced a new regulatory and incentives framework for the ESO. This moved away from the use of targeted, mechanistic incentives towards a 'principles-based' evaluative incentives approach. The new approach includes a set of 'Roles and Principles' designed to set clear expectations about the baseline behaviours we expect from the ESO and a requirement for the ESO to produce a Forward Plan, following stakeholder engagement, demonstrating the activities it

will undertake over the year to add value for consumers. Ofgem's ESO Performance Panel will challenge the ESO on its plans, evaluate its performance and make recommendations to Ofgem. At the end of the year, Ofgem will decide whether to financially reward or penalise the ESO up to a maximum cap and floor (where sales revenues above the cap are returned to transmission system users, and revenues below the floor are topped up by transmission system users, thus reducing the overall project risk) of ±£30 million, informed by the Performance Panel's recommendations, as well as other evidence collected throughout the year.

In 2019, the ESO published a mission and set of ambitious goals accompanied by its Forward Plan and its RIIO-2 business plan to set out what, when and how it delivers. This RIIO-2 business plan reflects the ambition shared by us and Ofgem for the ESO to be innovative, ambitious and agile, responding to stakeholder needs and the changing energy landscape.

Ofgem published terms of reference for a review of system operators on 13 February 2020. The aim of the review is to consider the current and future challenges facing GB System Operation and assess whether the right governance framework is in place to deliver the UK's net zero emissions target at lowest cost to consumers. A report on the outcome of the review will be produced which is expected to be received in June 2020 or later.

Interconnectors derive their revenues from sales of capacity to users who wish to move power between market areas with different prices. Under European legislation, 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 governs 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. 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 European legislation which would facilitate a merchant development.

## 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.

## How is revenue calculated?

Under RIIO, the outputs we deliver are explicitly articulated and our allowed revenues are linked to their delivery. These outputs were determined through an extensive consultation process, which gave stakeholders a greater opportunity to influence the decisions.

There are five output categories for transmission under the current RIIO price controls:

**Safety:** ensuring the provision of a safe energy network.

**Reliability (and availability):** promoting networks capable of delivering long-term reliability, minimising the number and duration of interruptions experienced during the price control period and ensuring adaptation to climate change.

**Environmental impact:** encouraging companies to play their role in achieving broader environmental objectives, specifically, facilitating the reduction of carbon emissions, as well as minimising their own carbon footprint.

**Customer and stakeholder satisfaction:** maintaining high levels of customer satisfaction and stakeholder engagement, and improving service levels.

**Customer connections:** encouraging networks to connect customers quickly and efficiently.



## The business in detail continued

Within each of these output categories are a number of primary and secondary deliverables that reflect what our stakeholders want us to deliver over the remaining price control period and in preparation for future periods. The nature and number of these deliverables vary according to the output category. Some are linked directly to our allowed revenue and some to legislation, while others have only a reputational impact.

Using information we have submitted, along with independent assessments, 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 these outputs, 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 that can result in adjustments to totex allowances if actual input prices or work volumes differ from the assumptions.

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 benefiting our customers.

The extended eight-year length of the first round of RIIO price controls is one of the ways that RIIO has given innovation more prominence. Innovation refers to all the new ways of working that deliver outputs more efficiently. This broad challenge has an impact on everyone in our business.

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, please see the table 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. Regulatory depreciation in electricity and gas transmission permits recovery of RAV consistent with each addition bringing benefit to consumers for a period of up to 45 years. 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, performance against our customer and stakeholder satisfaction targets can have a positive or negative effect of up to 1% of allowed annual revenues. Many of our incentives affect our revenues two years after the year of performance.

During the eight-year period of the RIIO-T1 price control, our regulator included a provision for a mid-period review, which was completed during 2017 and led to some changes in allowances relating to certain specific costs. Further to the mid-period review, National Grid volunteered that £480 million (in 2009/10 prices) of allowances for electricity transmission investments should be deferred. In August 2017, Ofgem determined how the RIIO allowances would be correspondingly adjusted.

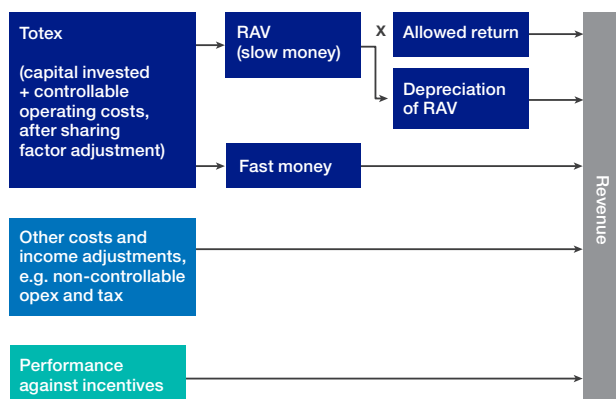
In addition, the RIIO-T1 price controls for transmission included a 're-opener mechanism', in relation to certain specific cost categories where there was uncertainty about expenditure requirements at the time of setting allowances. Both our gas and electricity transmission businesses requested additional funding under this mechanism in May 2018, leading to some changes to the allowed revenues.

### Competition in onshore transmission

Ofgem stated in its final decision on the RIIO-T1 price control for electricity transmission that it would consider holding a competition to appoint the constructor and owner of suitably large new transmission projects, rather than including these new outputs and allowances in existing transmission licensee price controls. In the absence of the legislation needed to support a competition, at the end of July 2018, and after consultation, Ofgem decided to fund the delivery of the Hinkley-Seabank (HSB) electricity transmission project by National Grid through a regulatory model called the 'Competition Proxy Model' (CPM). This regulatory model seeks to replicate the outcome of an efficient competitive process for the financing, construction and operation of the project and to provide National Grid Electricity Transmission with a project-specific revenue allowance over the period of its construction and 25 years of operation, but with reduced allowances reflecting prices that Ofgem has observed in other competitions. Ofgem subsequently updated the analysis which supported this decision, and in October 2019 consulted on a new minded-to position to fund delivery of the HSB project through the Strategic Wider Works (SWW) mechanism under the RIIO price control framework, rather than through the CPM as previously intended. The CPM is intended to be a 'late competition' model.

The ESO, at Ofgem's request, is developing an Early Competition Plan. This plan will set out how a model for Early Competition could be implemented, identifying the process, roles and responsibilities, code and licence changes required along with cost and timescales to implement. Plans are being co-created with stakeholders to ensure developed model(s) are attractive to potential bidders in addition to being achievable and aligned with network planning processes. As part of this work, the ESO is also considering what, if any, role the ESO could have in distribution level competition. The Early Competition Plan is due to be completed by the end of February 2021.

### Simplified illustration of RIIO regulatory building blocks



### Allowed returns

The cost of capital allowed under our current RIIO price controls is as follows:

	Transmission	
	Gas	Electricity
Cost of equity (post-tax real)	6.8%	7.0%
Cost of debt (pre-tax real)	iBoxx 10-year simple trailing average index (1.58% for 2019/20)	
Notional gearing	62.5%	60.0%
Vanilla WACC <sup>1</sup>	3.54%	3.75%

1. Vanilla WACC = cost of debt × gearing + cost of equity × (1-gearing).

Sharing factors are used to share over- and under-spends of allowed totex between the businesses and customers. The sharing figures displayed in the table below are the sharing factors that apply to our electricity and gas transmission businesses, for both TO and SO.

Sharing factors and fast:slow money ratios under our current RIIO price controls are as follows:

	Gas Transmission		Electricity Transmission	
	Transmission owner	System operator	Transmission owner	System operator
Fast <sup>1</sup>	Baseline <sup>3</sup> 35.6% Uncertainty 10%	62.60%	15.00%	72.10%
Slow <sup>2</sup>	Baseline <sup>3</sup> 64.4% Uncertainty 90%	37.40%	85.00%	27.90%
Sharing	44.36%		46.89%	

1. Fast money allows network companies to recover a percentage of totex within a one-year period.
2. Slow money is where costs are added to RAV and, therefore, revenues are recovered slowly (e.g. over 45 years) from both current and future customers.
3. The baseline is the expenditure that is funded through ex-ante allowances, whereas the uncertainty adjusts the allowed expenditure where the level of outputs delivered differ from the baseline level, or if triggered by an event.

## RIIO-2

Ofgem has started work on the next round of RIIO price controls (RIIO-2) for the energy network sectors it regulates, including both gas and electricity transmission. It has consulted on a wide range of topics, including incentives, outputs, the cost of capital and other financial parameters. Decisions that have already been taken include reducing the default price control duration back to five years from eight years, extending the role of competition where appropriate from electricity transmission to other sectors and moving away from RPI to CPIH for inflation measurement when calculating RAV and allowed returns. In addition, Ofgem has proposed a methodology for the baseline-allowed cost of equity which, based on the evidence available, it used in May 2019 to calculate its working assumption for RIIO-2 that is lower than the value under the current RIIO price controls. The RIIO-2 proposals will also apply, in part, to the ESO, but due to the nature of its activities some elements are less applicable to the ESO, and Ofgem has proposed that the duration will remain as a five-year price control, but with business plans (and totex allowances) it will be on a two-year cycle and overall the financial framework for the ESO is likely to be very different.

We and other stakeholders will continue to work with Ofgem to develop the framework and parameters for RIIO-2. We submitted business plans in December 2019 and Ofgem is expected to publish and consult on its draft determination in summer 2020, followed by the final price control determination for transmission companies before the end of 2020.

## US regulation

### Regulators

In the US, public utilities' retail transactions are regulated by state utility commissions. The commissions 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, and focus on services and costs 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.

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

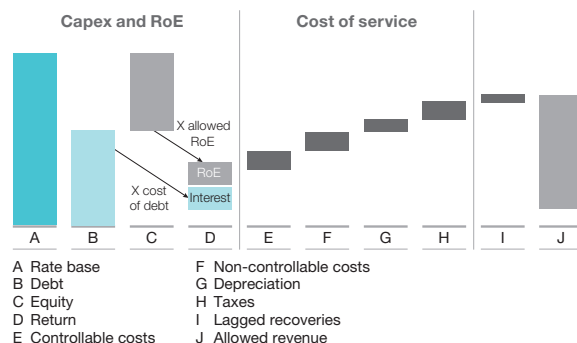
The US regulatory regime is premised on allowing the utility the opportunity to recover its cost of service and earn a reasonable return on its investments as determined by the commission. Utilities submit formal rate filings (rate cases) to the relevant state regulator when additional revenues are necessary to provide safe, reliable service to customers. 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. In the states where we operate, it can take 9 to 13 months for the commission to render a final decision. The utility is required to prove that the requested rate change is prudent and reasonable, and the requested rate plan can span multiple years. Unlike the state processes, the federal regulator has no specified timeline for adjudicating a rate case; typically it makes a final decision retroactive 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. This is typically referred to as its 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 recent 12-month period of operations, 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



## 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 six gas distribution networks (upstate New York, New York City, Long Island, Massachusetts (two) 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.

## The business in detail continued

We bill our customers for their use of electricity and gas services. Customer bills typically cover the cost of 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. This means they are 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 rates from time to time 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 benefiting 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 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 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 safe, reliable and economical service. To achieve these objectives and reduce regulatory lag, we have been requesting structural changes, 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 below in the table on page 226.

Below, we summarise significant, recent developments in rate filings and the regulatory environment. In 2017/18, we made full rate case filings with Niagara Mohawk (electric and gas), in April 2017; Boston Gas and Colonial Gas, in November 2017; and the Narragansett Electric Company, also in November 2017. A joint proposal, setting forth a three-year rate plan for Niagara Mohawk, was approved by the New York State Public Service Commission (NYPSC) in March 2018. 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. An order, establishing new base rates for Boston Gas and Colonial Gas, was approved by the Massachusetts Department of Public Utilities (MADPU) in September 2018. In 2018/19, we made a full rate case filing for Massachusetts Electric in November 2018. In 2019/20, we made a full rate case filing for KEDNY and KEDLI in April 2019. More recently, an order, setting forth a five-year performance-based ratemaking plan, was approved by MADPU in September 2019. These filings are expected to capture the benefit of recent increased investments in asset replacement and network reliability, and reflect long-term growth in costs, including property tax and healthcare costs.

### Massachusetts

#### Massachusetts Electric and Nantucket Electric rate cases

We filed a rate case for Massachusetts Electric and Nantucket Electric with MADPU on 15 November 2018 with new rates effective on 1 October 2019. The Massachusetts Electric rate case is the first for Massachusetts Electric and Nantucket Electric since the case filed in 2015. It updates 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%. MADPU approved a five-year performance-based ratemaking plan, which adjusts distribution rates annually based on a predetermined formula. As part of its decision, MADPU is requiring a management audit addressing the Company's strategic planning processes, staffing decisions and its relationship to National Grid USA Service Company. The audit will take place in two phases beginning in mid-2020 and ending with a final report in 2021. The Company cannot predict the outcome of this proceeding.

#### Merger of Boston Gas Company and Colonial Gas Company

On 16 December 2019, MADPU approved the Company's proposal to legally merge Colonial Gas Company into Boston Gas Company. The two companies had already effectively consolidated their operations, but the legal merger of these two entities allows for certain small efficiencies and cost savings. The legal merger was effective as of 15 March 2020. However, for ratemaking purposes, the Company must still maintain separate rates for customers of legacy Boston Gas Company and legacy Colonial Gas Company, until otherwise approved by MADPU.



### Statewide assessment of gas pipeline safety

In November 2018, MADPU initiated an independent statewide pipeline safety audit of the natural gas distribution systems in Massachusetts and hired an independent auditor. The auditor assessed the safety of the gas systems in the entire state and made recommendations for improvements that may impact operations of Boston and Colonial Gas and pipeline safety compliance requirements in the future. The auditor's final report was issued 29 January 2020, and included 37 recommendations for all the gas companies in Massachusetts as well as state agencies and other stakeholders. The final report also included a number of opportunities specific to Boston Gas and Colonial Gas. MADPU directed the gas companies to file plans in response to the final report. Boston Gas and Colonial Gas filed their plan on 28 February 2020, in which they accepted the final report's recommendations and opportunities, and detailed their actions to assess and address the recommendations and observations. MADPU may take further action on the auditor's final report, but the Company cannot predict what that action may be.

### Gas System Enhancement Plan (GSEP)

On 30 April 2019, MADPU approved our recovery of approximately \$49.5 million in revenue requirements, related to \$269.2 million of anticipated investments in 2019 under an accelerated pipe replacement programme, through rates effective from May 2019 to April 2020. MADPU also raised the cap on GSEP recoveries from 1.5% of revenue to 3% of revenue.

### Grid modernisation

In response to a 2014 regulatory requirement, we filed a Massachusetts electricity grid modernisation plan on 19 August 2015 that proposed multiple investment options. An order from MADPU approving some of the proposed investment was received on 10 May 2018. In its order, MADPU refined their objectives for grid modernisation to be: optimise system performance; optimise system demand and interconnect; and integrate distributed energy resources. We continue to implement our grid modernisation plan, and will be making annual cost recovery and annual update filings in conjunction with the plan in March and April of each year, respectively. We will also file our next proposed three-year grid modernisation plan (for 2021–23) on 1 July 2020.

### Massachusetts large-scale renewable contracts/clean energy contracts

During 2018, pursuant to state legislation enacted in 2016, our Massachusetts electric distribution companies, Massachusetts Electric Company and Nantucket Electric Company, filed with MADPU requests for approval of long-term contracts for their pro rata share of output and associated transmission from hydroelectric generation from Canada (approximately 1,200 MW), and from an offshore wind energy generation project (approximately 800 MW) to be located on the outer continental shelf.

Between April and June 2019, MADPU approved all of these contracts, along with the companies' request to recover the costs and remuneration equal to 2.75% of the annual payments under the contracts. The MADPU approval of the contracts for hydroelectric generation from Canada was appealed to the Massachusetts Supreme Judicial Court in July 2019. Despite COVID-19, the parties have been heard, but the court has no specific deadline to issue a decision, and the contracts will not become effective without a decision from the court affirming final regulatory approval.

Also, the 2016 legislation requires the companies to solicit a total of 1,600 MW of offshore wind energy generation, and a second competitive solicitation was issued in March 2019. In February 2020, Massachusetts Electric Company and Nantucket Electric Company submitted long-term contracts for their pro rata share of offshore wind energy generation (approximately 804 MW) to MADPU, seeking regulatory approval of the contracts, along with a request to recover the costs and remuneration equal to 2.75% of the annual payments under the contracts. While MADPU has no specific deadline to approve the contracts, despite COVID-19, hearings have been scheduled for July 2020.

The contracts will not become effective without regulatory approval.

### Electric vehicle programmes

In September 2018, MADPU approved with modifications a petition filed by Massachusetts Electric Company and Nantucket Electric Company for approval of a three-year pilot Electric Vehicle Market Development Programme (EV Programme). The total allowed cost, including a performance incentive, is approximately \$20 million. The companies submitted their first cost recovery filing in May 2020 with effect from 1 July 2020.

In September 2019 MADPU issued its final order in the Petition of Massachusetts Electric Company and Nantucket Electric Company for Approval of General Increases in Base Distribution Rates for Electric Service, which included approval of limited components of the companies' proposed five-year Phase II Electric Vehicle Programme (Phase II). The total allowed cost for Phase II is approximately \$9 million.

MADPU allowed the companies to file future EV proposals under the umbrella of the grid modification proceedings, which the companies plan to do. Cost recovery for both the EV Programme and Phase II is governed by the Electric Vehicle Programme Provision.

### Solar Massachusetts Renewable Target Program

In September 2018, MADPU approved a petition jointly filed by the Massachusetts electric distribution companies, including Massachusetts Electric Company and Nantucket Electric Company, to offer their customers a new solar programme. Following state legislation enacted in 2016, the Solar Massachusetts Renewable Target (SMART) Programme is required by state regulations issued by the Department of Energy Resources (DOER). The programme's objective is to develop a further 1,600 MW of customer-based solar power, at a lower cost than the prior two solar programmes. It aims to do this by providing on-bill credits and incentive payments, directly from the Company to the customer, at a lower cost than previous programmes. Massachusetts Electric Company's SMART allocation for large solar projects was filled up shortly after SMART opened. In November 2019, the Company has completed its first full year of enrolling projects in SMART and has submitted its proposed 2020 SMART Factor to recover its costs, which MADPU has approved subject to further review and investigation. In April 2020, DOER issued emergency regulations for additional SMART capacity, for review and comment. The SMART regulations require an additional 1,600 MW of customer-based solar power, and DOER has proposed certain changes to the programme incentive structure. About half of the total capacity will be located within the service territories of Massachusetts Electric Company and Nantucket Electric Company, as with the initial SMART programme. The regulations are effective immediately. In May 2020, DOER conducted a virtual public hearing and accepted written comments. Once DOER adopts final regulations, the electric distribution companies must file amended tariffs to allow for the expansion of SMART in summer/autumn 2020.

## The business in detail continued

### New York

#### Downstate New York 2019 rate cases

KEDNY and KEDLI filed a rate case with the NYPSC on 30 April 2019 seeking to increase delivery revenues by \$195 million and \$61 million, respectively, for the year ending 31 March 2021. The filings propose more than \$1.5 billion in capital investments to modernise KEDNY and KEDLI's gas infrastructure by replacing ageing pipelines, implementing safety improvements, enhancing storm hardening and resiliency, and reducing methane emissions. The filings also include proposals to enhance gas safety and promote a sustainable and affordable path towards a low-carbon energy future. We are resuming settlement negotiations in the interest of agreeing on a multi-year rate plan that mitigates bill impacts for our customers while allowing us to maintain safe and reliable service, advance our clean energy goals, and earn a reasonable return. If we are unable to reach a negotiated settlement, the rate cases will continue to a litigated outcome at which time we would then plan to file a new multi-year rate case proposal.

In light of the financial hardships our customers have experienced from COVID-19, we delayed implementation of certain previously approved rate increases. We also delayed filing a rate case this Spring and are exploring options including an extension of the current rate plan or a rate case filing later this Summer.

#### New York regulatory audits

Under the New York Public Service Law, the NYPSC is required to conduct periodic audits of various aspects of public utility activities. In 2018 the NYPSC initiated a comprehensive management and operations audit of our three New York regulated businesses. New York law requires periodic management audits of all utilities at least once every five years.

National Grid's New York regulated business last underwent a New York management audit in 2014, when the NYPSC audited our New York gas business.

In September 2018, the NYPSC selected Saleeby Consulting Group as the independent auditor to perform the audit. The Company was fully committed to the audit with the goal of demonstrating its full capabilities and receiving meaningful feedback that would drive useful recommendations to improve the Company's electric and gas operations for the benefit of its customers. The audit began in November 2018 and ran until August 2019, with a final report due in September 2019. Unexpectedly, in October 2019, the NYPSC employees advised us that they were terminating the contract with the auditors, effective immediately, because of the poor quality of the draft audit report by the auditor, with no fault whatsoever on the part of the Company. NYPSC employees advised their intention to complete the management audit themselves. The audit is expected to be completed sometime in the second half of 2020.

#### Downstate gas settlement

In May 2019, KEDNY and KEDLI stopped fulfilling applications for new and expanded firm service in most of their downstate New York service territories because the available firm gas supplies were insufficient to keep pace with demand. On 11 October 2019, the NYPSC issued an 'Order Instituting Proceeding and to Show Cause' that directed the Companies to provide gas service to a subset of previously denied applicants and show cause why the Companies should not be subject to financial penalties. On 24 November 2019, the Companies reached a settlement that was approved on 26 November 2019 by the NYPSC. The agreement resolves the proceeding opened by the NYPSC relating to the moratorium and provides the necessary framework for resolving the longer-term energy supply issues. Specifically, the settlement provides that KEDNY and KEDLI will lift the moratorium for approximately two years. National Grid will offer \$7 million in customer assistance to address hardships resulting from the moratorium. National Grid also agreed to fund \$8 million for new energy-efficiency and gas-conservation measures designed to relieve stress on the system and reduce peak-day gas usage, as well as \$20 million of clean technology investments and programmes in New York. The settlement provides for the appointment of a monitor to oversee our downstate New York gas supply operations and compliance with the settlement.

We also agreed to develop a range of options to address the natural gas constraints facing the region, which were initially presented in a report on 24 February 2020 outlining the gas capacity constraints affecting the downstate New York service territory and the reasonably available options for meeting long-term customer demand. These options were further presented at a series of six public meetings during March 2020 in the downstate New York service territory. These meetings were designed to facilitate a dialogue with customers, residents, advocates, business leaders and local elected officials on potential solutions. On 8 May 2020, we published a supplemental report with refined forecasts and additional analyses to evaluate the options for addressing the downstate New York supply constraints, including a preliminary assessment of the impacts of COVID-19 on customer demand, as well as a summary of the public's comments and feedback on the potential solutions. In mid-May certain permits were denied in New York and New Jersey for a pipeline solution and therefore we are advancing a portfolio of solutions that were identified in the supplementary report.

#### Advanced Metering Infrastructure

On 15 November 2018, Niagara Mohawk Power Corporation (NMPC) filed a report with the NYPSC detailing the initial outcome of NMPC's Advanced Metering Infrastructure (AMI) research and collaborative sessions. The report, which included an AMI Business Plan, a detailed benefit-cost analysis, and a Customer Engagement Plan, proposed a six-year deployment of electric AMI meters and AMI-compatible gas modules in NMPC's service territory beginning in 2019/20. This investment would modernise both customer and grid-facing components of the Company's distribution system and is considered a key enabler of NMPC's strategy to address the comprehensive state energy goals expressed in New York's Reforming the Energy Vision proceedings. The near-term benefits include greater customer choice and control over energy use; improved system modelling, load forecasting, and capital investment planning; increased system efficiency; and operational efficiencies for outage response. On 4 September 2019, we filed a supplemental report detailing the AMI collaborative's continued work. The filing provided an updated benefit-cost analysis and proposed a six-year, \$640 million (20-year NPV) deployment of electric AMI meters and AMI-compatible gas modules in NMPC's service territory beginning in 2019/20. Our proposal to deploy AMI is currently pending before the NYPSC. If approved by the NYPSC, the Company would replace approximately 1.7 million electric and 640,000 gas metering points.

### Rhode Island

#### Rhode Island combined gas and electric rate case

On 24 August 2018, the Rhode Island Public Utilities Commission (RIPUC) approved the terms of an Amended Settlement Agreement (ASA). We are currently in year two of the Company's multi-year rate plan. The rate plan includes a 9.275% RoE on an equity ratio of 51%. The ASA also requires the Company to file the next rate case so that new rates take effect no later than 1 September 2022, unless the RIPUC consents to an extension of the term and specifies another date upon which rates are to take effect. The Company will file its Rate Year 3 compliance filing on 1 June 2020 for distribution rates for year three of the multi-year rate plan, effective 1 September 2020.

#### 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 30 October 2019, RIPUC issued an Investigation Report regarding the gas service interruption which identified the causes of the outages, which included multiple factors, some of which were outside the control of the Narragansett Electric Company. RIPUC's Report also recommended several gas system improvements, many of which we have addressed already. On 13 December 2019, we filed our response to the RIPUC's Report and continue to meet with RIPUC on a quarterly basis regarding winter reliability issues for Aquidneck Island and Rhode Island.

### Power Sector Transformation/Advanced Metering Functionality

On 27 November 2017, we filed a Power Sector Transformation (PST) Vision and Implementation Plan in conjunction with our combined gas and electric rate case (the PST Plan). The PST Plan proposed a suite of investments, including the full deployment of Advanced Metering Functionality (AMF), which were designed to modernise the state's energy infrastructure. We intend to file our Updated AMF Business Case and Grid Modernisation Plan (GMP) with the RIPUC in the second half of 2020/21. The Updated AMF Business Case will present a detailed plan for full-scale AMF deployment in Rhode Island, using a Rhode Island-only scenario and a combination Rhode Island and New York deployment scenario to demonstrate the cost synergies that can be achieved through a multi-jurisdictional deployment. The estimated cost of the Rhode Island programme is approximately \$414 million over 20 years in nominal terms (assuming a Rhode Island-only deployment), which reflects the estimated useful life of the meters. The GMP will present a ten-year road map to guide the future development of projects and programmes to enhance distribution system planning and operations, which will be separately recovered as part of the Infrastructure, Safety and Reliability Plan or a future rate case.

### Heating Sector Transformation

On 8 July 2019, the Governor signed Executive Order 19-06 launching the Heating Sector Transformation (HST) Initiative to advance the state's development of clean, affordable, and reliable heating technologies. Two state agencies, the Office of Energy Resources (OER) and the Division of Public Utilities and Carriers (Division), were tasked to lead the initiative and instructed to work with government and non-government partners in the development of a report. We engaged with OER, the Division, and external stakeholders through a series of facilitated workshops. On 22 April 2020, the recommendations were provided to the Governor concluding that no one solution was more economically attractive than any other, and the state's decarbonisation solutions should include increased energy efficiency, decarbonised electrification through air and ground source heat pumps, and fuel decarbonisation through renewable natural gas and renewable oil. The document presented guiding principles, rather than technology mandates, for additional policy development proffering that the heating sector policy should remain technology-agnostic while promoting early demonstration and development of promising, carbon-reducing technologies. The report does not specify next steps; however, OER acknowledged it will be conducting an energy and economic analysis to inform actional pathways to meet the Governor's January 2020 Executive Order goal of meeting the state's electricity demand with 100% renewable resources by 2030, which will be linked to decarbonising the heating sector.

### Infrastructure, Safety and Reliability Plans

We filed our 2021 Gas and Electric Infrastructure, Safety and Reliability (ISR) Plans on 20 December 2019 for effect 1 April 2020. The Electric ISR Plan proposes capital spending of \$103.8 million, plus \$10.4 million for vegetation management and total operation and maintenance expense of \$1.8 million. The Gas ISR Plan proposes total capital spending of \$198.6 million. On 17 March 2020, RIPUC approved the Company's Gas and Electric ISR Plans, which include \$200 million and \$104 million of investments, respectively, for 2020/21. The Electric ISR Plan investment also includes \$3.7 million to readily respond to distributed energy resource (DER) interconnections and \$12 million of operation and maintenance expense for vegetation management and inspection and maintenance programmes. RIPUC slightly modified the Electric ISR Plan to move \$2 million for certain strategic DER investments such as advance capacitors and feeder monitor systems from the discretionary category (system capacity and performance) to the non-discretionary category. This means that the Company is allowed to invest in those assets if required by the system needs or customer connections, but we may defer the proactive investment in those technologies until after the Grid Modernisation plan is approved. The RIPUC approved both plans with only a \$1 million reduction to the gas capital spending proposal.

### Rhode Island large-scale renewable contracts

In February 2019, the Company's Rhode Island electric distribution company, the Narragansett Electric Company, filed with the RIPUC for approval of a long-term contract for output from offshore wind energy generation from an approximately 400 MW project to be located on the outer continental shelf. This contract is a voluntary obligation consistent with Governor Raimondo's 1,000 MW clean energy goal for Rhode Island. The bid was submitted in response to the Massachusetts solicitation for offshore wind energy generation, and such bids were shared with Rhode Island. RIPUC approved the contract in May 2019.

In February 2020, the Narragansett Electric Company filed with the RIPUC for approval of a long-term contract for output from an approximately 50 MW solar facility to be located in Connecticut.

The contract resulted from a competitive solicitation issued in 2018 to satisfy the Company's obligations under the Rhode Island Long-term Contracting Standard. RIPUC approved the contract at a virtual open meeting on 27 March 2020 and the Company received its written decision on 11 May 2020.

### 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 16 October 2018, FERC issued a Preliminary Order Directing Brief on our four New England RoE complaints. In this, 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 (MISO TOs). FERC issued an order on rehearing addressing the initial order on 21 May 2020. 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 November 2019 and 21 May 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.

#### Formula Rate 206 proceeding

On 28 December 2015, FERC initiated a proceeding under Section 206 of the Federal Power Act. It found that ISO-New England Transmission, Markets, and Services Tariff is unjust, unreasonable and unduly discriminatory or preferential. FERC found that ISO-New England's tariff lacks adequate transparency and challenge procedures regarding the formula rates for ISO-NE Participating Transmission Owners (ISO-NE PTOs). In addition, the Commission found that the ISO-NE PTOs' current Regional Network Service and Local Network Service formula rates appear to be unjust, unreasonable, unduly discriminatory or preferential, or otherwise unlawful. FERC explained that the formula rates appear to lack sufficient detail to determine how certain costs are derived and recovered in the formula rates. Accordingly, FERC established hearing and settlement judge procedures. Several parties are active in the proceeding, including FERC employees, various interested consumer parties, the New England States Committee on Electricity (NESCOE), and several municipal light departments. In August 2018, the parties to the proceeding agreed to the terms of a settlement and subsequently filed the proposed settlement with the settlement judge in the proceeding. It was opposed by certain municipal parties, making it a contested settlement. On 22 May 2019, FERC rejected the Formula Rate 206 settlement in its entirety and remanded the matter to the Chief Administrative Law Judge for hearing procedures. The parties have continued settlement negotiations and have been granted a suspension of the procedural schedule to attempt to finalise a settlement.

## The business in detail continued

### Summary of US price controls and rate plans

		2016	2017	2018	2019	2020	2021	2022	Rate base (31 Mar 2020)	Equity-to-debt ratio	Allowed Return on Equity	Achieved Return on Equity (31 Mar 2020)	Revenue decoupling <sup>†</sup>	Capital tracker <sup>‡</sup>	Commodity- related bad debt true-up <sup>§</sup>	Pension/OPEB true-up <sup>¶</sup>
<b>New York Public Service Commission</b>	Niagara Mohawk <sup>1</sup> (upstate, electricity)	◆	—	—	—	—	—	—	\$5,881m	48:52	9.0%	8.9%	✓	P	P	✓
	Niagara Mohawk (upstate, gas)	◆	—	—	—	—	—	—	\$1,328m	48:52	9.0%	8.7%	✓	P	P	✓
	KEDNY (downstate) <sup>2</sup>	—	—	—	—	—	—	—	\$4,555m	48:52	9.0%	7.7%	P	P	P	✓
	KEDLI (downstate) <sup>3</sup>	—	—	—	—	—	—	—	\$2,932m	48:52	9.0%	9.7%	P	P	P	✓
<b>Massachusetts Department of Public Utilities</b>	Massachusetts Electric/Nantucket Electric	—	—	—	—	—	—	—	\$2,858m	53:47	9.6%	10.3%	✓	P	✓	✓
	Massachusetts Gas	—	—	—	—	—	—	—	\$3,108m	53:47	9.5%	7.8%	✓	P	✓	✓
<b>Rhode Island Public Utilities Commission</b>	Narragansett Electric	—	—	—	—	—	—	—	\$895m	51:49	9.28%	11.9%	✓	✓	P	✓
	Narragansett Gas	—	—	—	—	—	—	—	\$944m	51:49	9.28%	8.8%	✓	✓	P	✓
<b>Federal Energy Regulatory Commission</b>	Narragansett	—	—	—	—	—	—	—	\$788m	50:50	10.57%	11.1%	n/a	✓	n/a	✓
	Canadian Interconnector	—	—	—	—	—	—	—	\$52m	100:0	13.0%	13.0%	n/a	✓	n/a	✓
	New England Power	—	—	—	—	—	—	—	\$1,844m	64:36	10.57%	11.0%	n/a	✓	n/a	✓
	Long Island Generation	—	—	—	—	—	—	—	\$456m	47:53	9.9%	14.1%	n/a	✓	n/a	✓

1. Both transmission and distribution, excluding stranded costs.  
2. KeySpan Energy Delivery New York (the Brooklyn Union Gas Company).  
3. KeySpan Energy Delivery Long Island (KeySpan Gas East Corporation).

- +— 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. 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 to either 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

Working with management, including the Chief Executive and Chief Financial Officer, we have evaluated the effectiveness of the design and operation of our disclosure controls and procedures as at 31 March 2020. 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, has 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 13a-5(f) and 15d-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 2020.

Deloitte LLP, which has audited our consolidated financial statements for the year ended 31 March 2020, has also audited the effectiveness of our internal control over financial reporting.

During the year, there were no changes in our internal control over financial reporting that have materially affected it, or are reasonably likely to materially affect it.

### Risk factors

Management of our risks is an important part of our internal control environment, as we describe on pages 22 – 25. 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 258. An overview of the key inherent risks we face is provided below.

### Risk factors

#### 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 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.

#### 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. The suspension of debt collection and customer termination activities across our service area in response to such pandemics is 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.



## Internal control and risk factors continued

### 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; 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, such as the impact of the COVID-19 pandemic (including on our operations and as a result of large-scale working from home by our employees), 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.

### 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 any changes arising as a result of emergency legislation to address the COVID-19 pandemic and the UK's exit from the European Union), including 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 engage in the energy policy debate, 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 RIIIO-2 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 219 – 226, which explain our regulatory environment in detail.

### 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 the US 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 and the delivery of our growth ambition include 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.

### 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.

### 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, the principal schemes are DB 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 (including as a result of the COVID-19 pandemic).

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.

## 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, 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.

## 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 (including as a result of the COVID-19 pandemic).

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 228.

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 (including personnel on sick leave or otherwise unable to work on an extended basis because of the COVID-19 pandemic) or an inability to attract, integrate, engage and retain appropriately qualified personnel, 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.



## 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.

#### 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 68.

#### 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 88 – 107).

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 £35 billion or any other amount approved by shareholders by an ordinary resolution at a general meeting. At the Company's AGM for 2020, shareholders will be asked to approve, by ordinary resolution, an increase in this amount (which has remained unchanged since the 2009 AGM) to £45 billion to enable the funding of growth over the medium-term in an efficient manner.

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. 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 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.

#### (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. 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. Consistent with the UK government restrictions in relation to the COVID-19 pandemic, the Company's AGM for 2020 will take place as a closed meeting.

### 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 Depositary (The Bank of New York Mellon) 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 16 May 2019 to 17 June 2020, the Company received a total of \$1,835,589.41 in reimbursements from the Depositary consisting of \$1,225,480.47 and \$610,108.94 received in October 2019 and February 2020 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 Bank of New York Mellon at the contact details on page 257.

### 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.

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.

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 2019/20 final dividend will be charged a fee of \$0.02 per ADS by the Depositary prior to distribution of the cash dividend.

### 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 [www.sec.gov](http://www.sec.gov).

### Events after the reporting period

In the period between 31 March 2020 and 17 June 2020, there have continued to be substantial environmental, economic and social changes in both the UK and US. As described further in the Strategic Report, these have had, and will continue to have, significant ramifications for the Group. Other than in respect of those areas where forward-looking forecasts are relevant (notably goodwill impairment reviews (note 11), expected credit losses on financial instruments including trade receivables (notes 19 and 32) and the presumption of the going concern basis generally (note 1)), none of these developments have caused adjustment to the financial statements.

### 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 234 and 235 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).

### Material interests in shares

As at 31 March 2020, 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 <sup>1</sup>	Date of last notification of interest
BlackRock, Inc.	238,695,907	6.85	3 December 2019
The Capital Group Companies, Inc.	145,094,617	3.88	16 April 2015

1. This number is calculated in relation to the issued share capital at the time the holding was disclosed.

As at 17 June 2020, no further notifications have been received.

The rights attached to ordinary shares are detailed on page 231. 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 17 June 2020, the share capital of the Company consists of ordinary shares of 12<sup>204473</sup> pence nominal value each and ADSs, which represent five ordinary shares each.

### Authority to purchase shares

Shareholder approval was given at the 2019 AGM to purchase up to 10% of the Company's share capital (being 341,188,512 ordinary shares). The Directors intend to seek shareholder approval to renew this authority at the 2020 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 2019 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 <sup>1</sup>	277,263,224	£34,467,394.44	7.52 <sup>1</sup>
Shares purchased and held in Treasury during the year	–	–	–
Shares transferred from Treasury during the year (to employees under employee share plans)	5,331,440	£662,766.75 <sup>2</sup>	0.14 <sup>3</sup>
Maximum number of shares held in Treasury during the year	277,263,224	£34,467,394.44 <sup>2</sup>	7.33 <sup>3</sup>

1. Called-up share capital: 3,687,483,073 as at 31 March 2019.

2. Nominal value: 12<sup>204473</sup>p.

3. Called-up share capital of 3,780,237,016 ordinary shares as at the date of this report.

As at the date of this report, the Company held 270,105,462 ordinary shares as treasury shares. This represented 7.15% of the Company's called-up share capital.

### Authority to allot shares

Shareholder approval was given at the 2019 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.

## Shareholder information continued

### 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.

### 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.

### Shareholder analysis

The following table includes a brief analysis of shareholder numbers and shareholdings as at 31 March 2020.

	Number of shareholders	% of shareholders	Number of shares	% of shares
1–50	170,394	21.39	5,185,345	0.14
51–100	202,748	25.46	14,246,560	0.38
101–500	331,032	41.57	68,966,441	1.82
501–1,000	46,110	5.79	32,119,610	0.85
1,001–10,000	43,274	5.43	106,072,161	2.81
10,001–50,000	1,727	0.22	31,718,701	0.84
50,001–100,000	235	0.03	17,096,831	0.45
100,001–500,000	441	0.05	106,039,599	2.81
500,001–1,000,000	144	0.02	102,719,196	2.72
1,000,001+	300	0.04	3,296,072,572	87.19
<b>Total</b>	<b>796,405</b>	<b>100</b>	<b>3,780,237,016</b>	<b>100</b>

### Taxation

The discussion in 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 United States; (ii) a corporation created or organised under the laws of the United States, 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 United States 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 or ordinarily 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 discussion 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 United States; 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 United States 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 ending 31 March 2019. 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, 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 investor 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 in total each month, for a fixed period of three years, five years or both. Contributions are taken from net salary. At the end of the three or five years, 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 ordinary shares in National Grid each month. The shares are placed in a UK resident trust.

#### US Incentive Thrift Plans

Thrift Plans are open to all US employees of participating National Grid companies; these are tax-advantaged savings plans (commonly referred to as 401k plans). These are defined contribution (DC) pension plans that give participants the opportunity to invest up to applicable federal salary limits. The federal limits for calendar year 2019 were: for pre-tax contributions, a maximum of 50% of salary limited to \$19,000 for those under the age of 50 and \$25,000 for those aged 50 and above; 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 \$56,000. For the calendar year 2020, participants may invest up to the applicable federal salary limits: for pre-tax contributions, this is 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; 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 \$57,000.

#### 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 \$18,888, 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 2020, the Company had borrowing facilities of £4.2 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, the US or the EU. 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: [www.nationalgrid.com](http://www.nationalgrid.com) (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. 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 2020, 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. Due to current ongoing contractual negotiations that the Company has with Costain plc, the situational conflict that Paul Golby has by virtue of being a Non-executive Director of the Company and Chairman of Costain plc has been kept under constant review during the year and Paul Golby has been recused of all discussions in relation to contractual issues with Costain plc. He has also confirmed to us in writing that the same arrangements are in place in Costain plc.

### 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 Nominations 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 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 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 of Association, 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.

### Employees

We negotiate with recognised unions. It is our policy to maintain well developed communications and consultation programmes. Other than the implementation of the Massachusetts workforce contingency plan in June 2018 there have been no material disruptions to our operations from labour disputes during the past five years. The agreement under dispute between the Company and the Massachusetts Gas unions was satisfactorily renegotiated in January 2019. 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 52 – 54.

### Human rights

Respect for human rights is incorporated into our employment practices and our core values, which are integral to our Code of Ethical Business Conduct. The way in which we conduct ourselves allows us to build trust with the people with whom we work. As a global utility company, we earn this trust by doing things in the right way, complying with the laws of the countries in which we do business while building our reputation as a responsible company that 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, our commitment is guided by our Global Supplier Code of Conduct (GSCoC) that integrates human rights into the way we do business throughout our supply chain alongside other areas of sustainability. This Code outlines our values and expectations to ensure we treat people with respect and protect their human rights, protect the environment and preserve natural resources and positively impact the interests of the communities we serve and from which we procure goods and services. Through our GSCoC, we expect our suppliers to act in accordance with the highest ethical standards and comply with all the relevant laws, regulations and licences relating to their business, as well as adhere to the Principles of the United Nations Global Compact, the International Labour Organization (ILO) minimum standards, the Ethical Trading Initiative (ETI) Base Code, the UK Modern Slavery Act 2015, Trafficking and Violence Protection Act 2000 and, for our UK suppliers, the requirements of the Living Wage Foundation.

### 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 140
Publication of unaudited financial information	Not applicable
Details of long-term incentive schemes	Not applicable
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	Not applicable
Parent participation in a placing by a listed subsidiary	Not applicable
Contracts of significance	Not applicable
Provision of services by a controlling shareholder	Not applicable
Shareholder waivers of dividends	Page 234
Shareholder waivers of future dividends	Page 234
Agreements with controlling shareholders	Not applicable

### Material contracts

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 that contains any provision under which any member of the Group has any obligation or entitlement that is material to the Group at the date of this report.

### 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. 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 in the UK or the EU during the year, including donations as defined for the purposes of the Political Parties, Elections and Referendums Act 2000. National Grid USA and its affiliated New York and federal political action committees (PAC) made political donations in the US totalling \$46,050 (£36,978) during the year. National Grid USA's affiliated New York PAC 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.

### Property, plant and equipment

This information can be found in note 13 property, plant and equipment on pages 150 – 152, note 21 borrowing on pages 161 – 163 and where we operate on page 218.

### Research, development and innovation activity

Investment in research and development during the year for the Group was £14 million (2018/19: £19 million; 2017/18: £13 million). Due to the way in which we work with a large number of partners on new ideas, our disclosed research and development expenditure is lower than the overall contribution we make to the industry. 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 2019/20.

Continued collaboration and stakeholder engagement have driven the research programmes for ET innovation. Our engagement with stakeholders as part of webinars, podcasts, formal meetings, conferences and dissemination events has been instrumental to developing our strategies including our overall innovation strategy as well as technology and asset-related innovation strategies.

As a result, our project portfolio has been developed around the themes of delivering cleaner and cheaper energy. Our commitment to the 'Net Zero' target for 2050 has provided the focus for our research programme on carbon emission reduction. We have started cross-sector collaboration in order to drive a whole-system approach to decarbonising key sectors such as heat, transport and industry. Our Zero2050 project in South Wales has brought diverse stakeholders from utilities, industry, academia, SMEs, consultants and government together to design a pathway to decarbonisation for South Wales that delivers best value to consumers.

## Other disclosures continued

We are also increasing research into decarbonising our own operations and preparing our network for the changes we need to make to accommodate a fully decarbonised energy sector. We have worked with our partners on several projects, investigating ways to eliminate greenhouse gases from our gas-insulated equipment as well as the reduction of our carbon footprint relating to our construction work. Our future network will need to accommodate more renewable energy sources and other converter-based connections and equipment. Providing the infrastructure for a secure, efficient and reliable network requires an increased understanding of network stability with reduced inertia in the system. We have started four projects investigating the impacts of reduced inertia, potential controller interactions and reduced fault levels. As part of these projects we are developing our capabilities to accurately model the electricity transmission network and are developing schemes to mitigate the impacts on system stability and protection performance.

The second key aspect that our stakeholder engagement has highlighted is the delivery of cheaper energy. This has been implemented in our research programme on optimised asset management and monitoring as well as the digitisation of operational technology, considering in particular, cyber security in a context of increasing cyber threats.

As a key enabler for future innovation we have continued the delivery of our Deeside Centre for Innovation. Significant progress has been made with the completion of the control building, good progress on the construction of the overhead line test area and detailed design for the substation area, which notably includes a trial for construction with cement-free concrete.

The ESO has been innovating to make sure the electricity network operates safely and efficiently around the clock. Innovation is key to creating a sustainable, low-carbon electricity system for the future that will help the UK meet its net zero commitments. We refresh our strategy and innovation priorities annually, based on consultation with our stakeholders and this ensures we continue to focus innovation funding only on the most effective projects which can deliver consumer benefits. Next year will see us continue delivering large-scale ESO-led innovation projects, including Distributed ReStart, a £10 million Network Innovation Competition (NIC) project with SP Energy Networks and specialist energy consultancy TNEI. In a world first, this project will develop and demonstrate coordination of DERs to provide a safe and effective Black Start service at lower cost to consumers.

Gas Transmission innovation has continued to focus on developing innovation programmes across core areas such as net zero, safety, reliability and asset health, and embedding these in the business, while also preparing to deliver the energy network of the future and facilitate UK decarbonisation. Highlights from the year include:

- expanding our focus on hydrogen with a number of new projects, including Hydrogen Injection into the NTS, looking at the requirements to carry out a physical trial of hydrogen in the NTS;
- the Monitoring of Real-Time Fugitive Emissions project, looking at developing a robust measurement protocol and a new, low-cost, distributed sensor scheme to monitor fugitive emissions;
- the Spatial GB Clean Heat model, a National Grid-led collaborative project with the gas distribution networks to develop an integrated, cross-vector heat decarbonisation model of the whole heating system within GB to optimise future investment plans;
- launching a number of innovation calls with the Energy Innovation Centre (EIC), reaching out to innovators and small and medium-sized enterprises (SMEs) to find new technologies and solutions to some of our biggest challenges on the NTS;
- the GRAID ART project, which will investigate the addition of Acoustic Resonance Technology (ART) onto the GRAID robotic platform to enhance our underground pipeline inspections, provide robust data about their condition and reduce maintenance and repair costs;
- the installation of the Composite Transition Pieces at Peterborough and Huntingdon; these innovative seal units make it quicker, cheaper and safer to assess pipelines for corrosion.

Research and Development (R&D) work in the US focused on the advancement of products, processes, systems 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. This collaboration has also helped inform our strategic direction in response to jurisdictional requests for electric modernisation (Grid Modernisation in Massachusetts, Rhode Island and Reforming the Energy Vision (REV) in New York). We continue to focus our R&D on increasing public safety, protecting our workforce and reducing the cost of the work we perform.

In 2019/20, 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. Below are a few examples of our R&D projects:

### US Electricity:

- In Massachusetts under our 'Solar Phase II' programme, we contracted and built 15.27 MW of company-owned photovoltaics facilities. The objective is to better understand the real-world impact advanced technologies can bring to the grid; such as reduced customer interconnection costs and time; increasing hosting capacity; and improving the distribution system's overall power quality and reliability. We partnered with the Electric Power Research Institute (EPRI), Sandia National Laboratories (Sandia) and Fraunhofer Gesellschaft (Fraunhofer);
- With the EPRI, we explored the value of customised smart inverter settings and advanced metering at the Point of Common Coupling (PCC) and published our findings in a white paper titled 'Recommended Smart Inverter Settings for Grid Support and Test Plan: Interim Report'. We also worked with them to calculate the severity of PV Arc Flashes, of which the team shared their findings in a paper titled 'DC Arc Flash on Photovoltaic Equipment';
- With National Grid's support, Sandia initiated an Advanced Distribution Management Systems (ADMS) to optimise commands to allow PV penetration of 50% or greater. Our work was published in a paper titled 'Optimal Distribution System Voltage Regulation using State Estimation and DER Grid-Support Functions';
- Under the support of the US Department of Energy, the Fraunhofer CSE-led project, called 'SunDial', we created a system that optimally manages facility loads and energy storage charging and discharging with PV to mitigate potential problems due to intermittency and large ramps in generation;
- In the 'Solar Phase III' programme, we developed seven additional sites each equipped with a unique combination of smart inverters, energy storage, advanced metering, plant level control, and other equipment with features beyond today's industry standards. We will be testing these new technologies on a variety of distribution circuits; and
- Last year, we completed two New York REV pilot projects:
  - Fruit Belt Neighbourhood Solar and Community Resilience. This year we have completed an additional New York REV demonstration project; and
  - The Distributed System Platform (DSP) REV demonstration project tested a small-scale distribution system energy market involving customer-owned DERs to support the Distribution System Operator (DSO) concept.



- We continued to progress our Smart City REV demonstration project in partnership with the city of Schenectady. Phase 1, which involves procurement, deployment and initial operation of all selected technologies, has progressed beyond 90% completion. Now we are collaborating on the establishment and assessment of functional performance characteristics, including feedback from city stakeholders to evaluate the public acceptance and the overall value proposition. Phase 2 of the project is currently in the technology procurement phase, which will then be deployed in the remaining areas of the city.
- National Grid is heavily engaged on several programmes, including bulk system renewables, DERs integration, planning and asset management, energy storage, asset management for transmission and distribution, system automation and integrating emerging technologies.
- To proactively monitor environmental conditions within underground structures (manholes) we have piloted the installation of manhole monitoring technology produced by CNIGuard. Underground infrastructure can be susceptible to the accumulation of water, debris and salt that can result in the degradation of assets. This can result in failure of the assets thereby increasing the operation and loading on parallel equipment. National Grid has installed nine units in Providence, Rhode Island and 11 in Brockton, Massachusetts and will be installing 12 in Albany, NY, 12 in Brockton, Massachusetts and 12 in Providence, Rhode Island in the second quarter of 2020.
- National Grid is preparing to demonstrate online monitoring technology at transmission substations and lines in our New England service area. These technologies will allow the Company to utilise the capacity of lines and transformers more efficiently and focus maintenance efforts on the assets which are at the greatest risk.
- Over the next 10 years we will be deploying up to 170 digital substations in New England and New York as we transition to fully digital substations on our transmission network, which will utilise the IEC 61850 communications standard. The digital substation reduces construction and operation costs, engineering and construction time, increases system flexibility, and helps facilitate the large-scale incorporation of renewable power.

#### US gas:

- 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. We are currently transitioning the technology to the field for live testing.
- We have been working with a Canadian valve manufacturer to develop a service isolation valve to locally and remotely isolate a gas service. The application has become necessary due to recent industry incidents in the US. The valve has passed all industry and National Grid required testing and can be installed on service lines up to 11 bar of pressure. The valve can take a switched signal from any source and locally isolate the gas service. Signals include flood, fire, seismic, under-pressurisation, over-pressurisation and methane. The valve can also be closed via a wireless signal from National Grid. We are currently building 75 units to be deployed in the New York State service territory. We are in conversations with our regulators to expand the testing to 1,000 units as a solution to hurricane Sandy flooding issues.
- To enhance the functionality of the service isolation valve, we have been working to develop and deploy enhanced residential methane detectors (RMDs). With the deployment of the 75 service isolation valves, we are installing European manufactured RMDs that are powered by 120 V and hard wired to the valve control. We are working with several manufacturers on enhancements: first to power the unit with long-term batteries (current technology limits battery life to three years); and second, to introduce wireless communication to the valve controller (as current technology requires wiring from the RMD to the isolation valve). We are developing an RMD with communications technology that would allow installation of the RMD in remote locations in residential flats, and installation of the RMD in locations where gas is being used to signal if gas escapes.

The Company is utilising all the R&D efforts described above, to create the Grid modernisation plans for all jurisdictions.

#### Unresolved SEC staff comments

There are no unresolved SEC staff comments required to be reported.

## 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 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 Return on Equity (RoE), UK and US regulatory 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 and, prior to the adoption of IFRS 15, payments to other UK network owners. 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. Any over- or under-recovery of these costs is returned to, or recovered from, our customers.

	2020			2019			2018		
	Gross revenue £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	3,702	(1,528)	2,174	3,351	(1,397)	1,954	4,154	(2,243)	1,911
UK Gas Transmission	927	(242)	685	896	(227)	669	1,091	(257)	834
US Regulated	9,205	(3,460)	5,745	9,846	(3,978)	5,868	9,272	(3,804)	5,468
NGV and Other	736	–	736	876	–	876	776	–	776
Sales between segments	(30)	–	(30)	(36)	–	(36)	(43)	–	(43)
<b>Total</b>	<b>14,540</b>	<b>(5,230)</b>	<b>9,310</b>	<b>14,933</b>	<b>(5,602)</b>	<b>9,331</b>	<b>15,250</b>	<b>(6,304)</b>	<b>8,946</b>

### 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 28 – 37 and reconciled below.

Adjusted results, also referred to as Headline 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 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.

Underlying results – further adapts our adjusted results 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 totex-related allowances and adjustments). For 2019/20, as highlighted on page 241, our underlying results exclude £147 million (2018/19: £108 million) of timing differences. We have not excluded major storm costs this year as costs were below our \$100 million storm cost timing threshold (2018/19: £93 million). 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 movements.

Reconciliation of statutory, adjusted and underlying profits and earnings – at actual exchange rates – continuing operations

Year ended 31 March 2020	Statutory £m	Exceptionals and remeasurements £m	Adjusted £m	Timing £m	Major storm costs £m	Underlying £m
UK Electricity Transmission	1,316	4	1,320	(146)	–	1,174
UK Gas Transmission	347	1	348	54	–	402
US Regulated	880	517	1,397	239	–	1,636
NGV and Other	237	5	242	–	–	242
<b>Total operating profit</b>	<b>2,780</b>	<b>527</b>	<b>3,307</b>	<b>147</b>	<b>–</b>	<b>3,454</b>
Net finance costs	(1,113)	64	(1,049)	–	–	(1,049)
Share of post-tax results of joint ventures and associates	87	1	88	–	–	88
<b>Profit before tax</b>	<b>1,754</b>	<b>592</b>	<b>2,346</b>	<b>147</b>	<b>–</b>	<b>2,493</b>
Tax	(480)	47	(433)	(45)	–	(478)
<b>Profit after tax</b>	<b>1,274</b>	<b>639</b>	<b>1,913</b>	<b>102</b>	<b>–</b>	<b>2,015</b>

Year ended 31 March 2019	Statutory £m	Exceptionals and remeasurements £m	Adjusted £m	Timing £m	Major storm costs £m	Underlying £m
UK Electricity Transmission	778	237	1,015	77	–	1,092
UK Gas Transmission	267	36	303	38	–	341
US Regulated	1,425	299	1,724	(223)	93	1,594
NGV and Other	400	–	400	–	–	400
<b>Total operating profit</b>	<b>2,870</b>	<b>572</b>	<b>3,442</b>	<b>(108)</b>	<b>93</b>	<b>3,427</b>
Net finance costs	(1,069)	76	(993)	–	–	(993)
Share of post-tax results of joint ventures and associates	40	–	40	–	–	40
<b>Profit before tax</b>	<b>1,841</b>	<b>648</b>	<b>2,489</b>	<b>(108)</b>	<b>93</b>	<b>2,474</b>
Tax	(339)	(149)	(488)	36	(24)	(476)
<b>Profit after tax</b>	<b>1,502</b>	<b>499</b>	<b>2,001</b>	<b>(72)</b>	<b>69</b>	<b>1,998</b>

Year ended 31 March 2018	Statutory £m	Exceptionals and remeasurements £m	Adjusted £m	Timing £m	Major storm costs £m	Underlying £m
UK Electricity Transmission	1,041	–	1,041	14	–	1,055
UK Gas Transmission	487	–	487	18	–	505
US Regulated	1,734	(36)	1,698	(136)	142	1,704
NGV and Other	231	–	231	–	–	231
<b>Total operating profit</b>	<b>3,493</b>	<b>(36)</b>	<b>3,457</b>	<b>(104)</b>	<b>142</b>	<b>3,495</b>
Net finance costs	(882)	(119)	(1,001)	–	–	(1,001)
Share of post-tax results of joint ventures and associates	49	(5)	44	–	–	44
<b>Profit before tax</b>	<b>2,660</b>	<b>(160)</b>	<b>2,500</b>	<b>(104)</b>	<b>142</b>	<b>2,538</b>
Tax	889	(1,473)	(584)	42	(51)	(593)
<b>Profit after tax</b>	<b>3,549</b>	<b>(1,633)</b>	<b>1,916</b>	<b>(62)</b>	<b>91</b>	<b>1,945</b>

## Other unaudited financial information continued

### Reconciliation of adjusted and underlying profits – 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
<b>Year ended 31 March 2019</b>						
UK Electricity Transmission	1,015	–	1,015	77	–	1,092
UK Gas Transmission	303	–	303	38	–	341
US Regulated	1,724	25	1,749	(226)	94	1,617
NGV and Other	400	1	401	–	–	401
<b>Total operating profit</b>	<b>3,442</b>	<b>26</b>	<b>3,468</b>	<b>(111)</b>	<b>94</b>	<b>3,451</b>
Net finance costs	(993)	(11)	(1,004)	–	–	(1,004)
Share of post-tax results of joint ventures and associates	40	–	40	–	–	40
<b>Profit before tax</b>	<b>2,489</b>	<b>15</b>	<b>2,504</b>	<b>(111)</b>	<b>94</b>	<b>2,487</b>
	At constant currency					
	Adjusted at actual exchange rate £m	Constant currency adjustment £m	Adjusted £m	Timing £m	Major storm costs £m	Underlying £m
<b>Year ended 31 March 2018</b>						
UK Electricity Transmission	1,041	–	1,041	14	–	1,055
UK Gas Transmission	487	–	487	18	–	505
US Regulated	1,698	94	1,792	(144)	150	1,798
NGV and Other	231	(4)	227	–	–	227
<b>Total operating profit</b>	<b>3,457</b>	<b>90</b>	<b>3,547</b>	<b>(112)</b>	<b>150</b>	<b>3,585</b>
Net finance costs	(1,001)	(38)	(1,039)	–	–	(1,039)
Share of post-tax results of joint ventures and associates	44	1	45	–	–	45
<b>Profit before tax</b>	<b>2,500</b>	<b>53</b>	<b>2,553</b>	<b>(112)</b>	<b>150</b>	<b>2,591</b>

### Earnings per share calculations from continuing operations – at actual exchange rates

The table below reconciles the profit before 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
<b>Year ended 31 March 2020</b>					
Statutory	1,274	(1)	1,273	3,461	36.8
Adjusted (also referred to as Headline)	1,913	(1)	1,912	3,461	55.2
Underlying	2,015	(1)	2,014	3,461	58.2
	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
<b>Year ended 31 March 2019</b>					
Statutory	1,502	(3)	1,499	3,386	44.3
Adjusted (also referred to as Headline)	2,001	(3)	1,998	3,386	59.0
Underlying	1,998	(3)	1,995	3,386	58.9
	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
<b>Year ended 31 March 2018</b>					
Statutory	3,549	(1)	3,548	3,461	102.5
Adjusted (also referred to as Headline)	1,916	(1)	1,915	3,461	55.3
Underlying	1,945	(1)	1,944	3,461	56.2

### Timing and regulated revenue adjustments

As described on pages 219 – 226, 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, the balance must be returned to customers in subsequent periods, and if we collect less than the allowed level of revenue, we may recover the balance from customers in subsequent periods. 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 £147 million (2018/19: £108 million over-collection). Our closing balance at 31 March 2020 was £256 million over-recovered. In the UK, there was a cumulative over-recovery of £24 million at 31 March 2020 (2019: under-recovery of £59 million). In the US, cumulative timing over-recoveries at 31 March 2020 were £240 million (2019: £466 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 RII 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 are also recovering revenues in relation to certain costs incurred (for example pension contributions made) in prior years.

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, timing and regulated revenue adjustments totalled a recovery of £92 million in the year (2018/19: £115 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 Gas Transmission £m	US Regulated £m	Total £m
1 April 2019 opening balance <sup>1</sup>	(127)	59	471	403
Over/(under) recovery	146	(54)	(239)	(147)
<b>31 March 2020 closing balance to (recover)/return<sup>3</sup></b>	<b>19</b>	<b>5</b>	<b>232</b>	<b>256</b>

	UK Electricity Transmission £m	UK Gas Transmission £m	US Regulated £m	Total £m
1 April 2018 opening balance <sup>1</sup>	(41)	97	245	301
Over/(under) recovery	(77)	(38)	226	111
<b>31 March 2019 closing balance to (recover)/return<sup>2,3</sup></b>	<b>(118)</b>	<b>59</b>	<b>471</b>	<b>412</b>

	UK Electricity Transmission £m	UK Gas Transmission £m	US Regulated £m	Total £m
1 April 2017 opening balance <sup>1</sup>	(30)	111	108	189
Over/(under) recovery	(14)	(18)	143	111
<b>31 March 2018 closing balance to (recover)/return<sup>2,3</sup></b>	<b>(44)</b>	<b>93</b>	<b>251</b>	<b>300</b>

1. Opening balances have been restated to reflect the finalisation of calculated over/(under)-recoveries in the UK and the US.

2. US over/(under) recovery and all US Regulated balances have been translated using the average exchange rate for the year ended 31 March 2020.

3. The over-recovered closing balance at 31 March 2020 was £264 million (translated at the closing rate of \$1.24:£1). 31 March 2019 was £407 million (translated at the closing rate of \$1.30:£1). 31 March 2018 was £279 million (translated at the closing rate of \$1.40:£1).

## Other unaudited financial information continued

### 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 contribute property assets to the joint venture in exchange for cash and accordingly do not consider these transactions to be in the nature of capital investment.

Year ended 31 March	At actual exchange rates			At constant currency		
	2020 £m	2019 £m	% change	2020 £m	2019 £m	% change
UK Electricity Transmission	1,043	925	13	1,043	925	13
UK Gas Transmission	249	308	(19)	249	308	(19)
US Regulated	3,228	2,650	22	3,228	2,688	20
NGV and Other	559	438	28	559	439	27
<b>Group capital expenditure</b>	<b>5,079</b>	<b>4,321</b>	<b>18</b>	<b>5,079</b>	<b>4,360</b>	<b>16</b>
Equity investment, funding contributions and loans to joint ventures and associates <sup>1</sup>	56	127	(56)	56	128	(56)
Acquisition of Geronimo and Emerald	209	–	n/a	209	–	n/a
Increase in financial assets (National Grid Partners)	61	58	5	61	59	3
<b>Group capital investment</b>	<b>5,405</b>	<b>4,506</b>	<b>20</b>	<b>5,405</b>	<b>4,547</b>	<b>19</b>

1. Excludes £15 million (2019: £47 million) equity contribution to the St William Homes LLP joint venture.

### Net debt

See note 29 on page 178 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	2020 £m	2019 <sup>1</sup> £m	2018 <sup>1</sup> £m
<b>Interest expense (income statement)</b>	<b>1,119</b>	<b>1,066</b>	<b>1,128</b>
Hybrid interest reclassified as dividend	(39)	(51)	(51)
Capitalised interest	122	135	128
Pensions interest adjustment	16	(4)	(49)
Interest on lease rentals adjustment	–	11	16
Unwinding of discount on provisions	(77)	(74)	(75)
Other interest adjustments	–	1	12
<b>Adjusted interest expense</b>	<b>1,141</b>	<b>1,084</b>	<b>1,109</b>
<b>Net cash inflow from operating activities</b>	<b>4,715</b>	<b>4,389</b>	<b>4,710</b>
Interest received on financial instruments	73	68	57
Interest paid on financial instruments	(957)	(914)	(853)
Dividends received	75	201	213
Working capital adjustment	(269)	(40)	(118)
Excess employer pension contributions	176	260	211
Hybrid interest reclassified as dividend	39	51	51
Lease rentals	–	34	86
Difference in net interest expense in income statement to cash flow	(187)	(186)	(178)
Difference in current tax in income statement to cash flow	67	(13)	(206)
Current tax related to prior periods	(45)	(52)	(22)
Cash flow from discontinued operations	(97)	(71)	(207)
<b>Funds from operations (FFO)</b>	<b>3,590</b>	<b>3,727</b>	<b>3,744</b>
<b>FFO interest cover ((FFO + adjusted interest expense)/adjusted interest expense)</b>	<b>4.1x</b>	<b>4.4x</b>	<b>4.4x</b>

1. Numbers for 2019 and 2018 reflect the calculations for the total Group as based on the published accounts for the respective years.

### 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.

Year ended 31 March	2020 £m	2019 £m	2018 £m
<b>Funds from operations (FFO)</b>	<b>3,590</b>	3,727	3,744
Hybrid interest reclassified as dividend	(39)	(51)	(51)
Ordinary dividends paid to shareholders	(892)	(1,160)	(1,316)
<b>RCF (excluding share buybacks)</b>	<b>2,659</b>	2,516	2,377
Repurchase of shares	–	–	(178)
<b>RCF (net of share buybacks)</b>	<b>2,659</b>	2,516	2,199
Borrowings	<b>30,794</b>	28,730	26,625
Less:			
50% hybrid debt	(1,054)	(1,039)	(1,050)
Cash and cash equivalents	(73)	(252)	(329)
Financial and other investments	(1,278)	(1,311)	(2,304)
Underfunded pension obligations	<b>1,442</b>	845	857
Operating leases adjustment	–	248	408
Derivative balances removed from debt	(116)	141	(479)
Currency swaps	<b>203</b>	38	117
Nuclear decommissioning liabilities reclassified as debt	<b>6</b>	18	5
Collateral – cash received under collateral agreements	(785)	(558)	(878)
Accrued interest removed from short-term debt	(246)	(223)	(195)
<b>Adjusted net debt (includes pension deficit)</b>	<b>28,893</b>	26,637	22,777
<b>RCF (excluding share buybacks)/adjusted net debt</b>	<b>9.2%</b>	9.4%	10.4%
<b>RCF (net of share buybacks)/adjusted net debt</b>	<b>9.2%</b>	9.4%	9.7%

### 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

Year ended 31 March	2020 £m	2019 £m	2018 £m
Adjusted operating profit	<b>1,320</b>	1,015	1,041
Movement in regulatory 'IOUs'	(99)	174	51
Deferred taxation adjustment	<b>63</b>	64	70
RAV indexation (average 3% long-run inflation)	<b>406</b>	391	374
Regulatory vs IFRS depreciation difference	(459)	(394)	(377)
Fast money/other	<b>26</b>	72	69
Pensions	(52)	(51)	(49)
Performance RAV created	<b>119</b>	90	83
<b>Regulated financial performance</b>	<b>1,324</b>	1,361	1,262

## Other unaudited financial information continued

### UK Gas Transmission

Year ended 31 March	2020 £m	2019 £m	2018 £m
Adjusted operating profit	348	303	487
Movement in regulatory 'IOUs'	67	68	(91)
Deferred taxation adjustment	25	8	18
RAV indexation (average 3% long-run inflation)	185	179	173
Regulatory vs IFRS depreciation difference	(77)	(42)	(29)
Fast money/other	(17)	(10)	(11)
Pensions	(34)	(33)	(32)
Performance RAV created	(24)	(30)	(16)
<b>Regulated financial performance</b>	<b>473</b>	<b>443</b>	<b>499</b>

### Regulated financial performance – US

#### US Regulated

Year ended 31 March	2020 £m	2019 £m	2018 £m
Adjusted operating profit	1,397	1,724	1,698
Bad debt provision (COVID-19) <sup>1</sup>	117	–	–
Major storm costs	–	93	142
Timing	239	(223)	(136)
US GAAP pension adjustment	(4)	(80)	(73)
<b>Regulated financial performance</b>	<b>1,749</b>	<b>1,514</b>	<b>1,631</b>

1. US Regulated financial performance includes an adjustment reflecting our expectation for future recovery of COVID-19 related bad and doubtful debt costs.

### Total regulated financial performance

Year ended 31 March	2020 £m	2019 £m	2018 £m
UK Electricity Transmission	1,324	1,361	1,262
UK Gas Transmission	473	443	499
US Regulated	1,749	1,514	1,631
<b>Total regulated financial performance</b>	<b>3,546</b>	<b>3,318</b>	<b>3,392</b>

**US timing, major storms and movement in UK regulatory 'IOUs'** – Revenue related to performance in one year may be recovered in later years. Revenue may be recovered in one year but be required to be returned to customers in future years. 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.

**3% 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 3% (long-run RPI inflation assumption).

**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 is comprised 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 5% and 7% 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. 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' includes the under or over-recovery of revenues that National Grid's UK regulated 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.

The investment in 'NGV and other businesses' includes net assets excluding pensions, tax and items related to the UK Gas Distribution sale.

Year ended 31 March (£m at constant currency)	RAV, rate base or other business assets		Total Regulated and other balances	
	2020 £m	2019 <sup>1</sup> £m	2020 £m	2019 <sup>1</sup> £m
UK Electricity Transmission	14,133	13,537	13,769	13,291
UK Gas Transmission	6,298	6,155	6,305	6,099
US Regulated	20,644	18,407	22,435	20,394
Total regulated	41,075	38,099	42,509	39,784
NGV and other businesses	4,105	3,351	3,591	2,672
<b>Total Group regulated and other balances</b>	<b>45,180</b>	<b>41,450</b>	<b>46,100</b>	<b>42,456</b>

1. 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 2019, and finalisation of US balances.

US rate base and Total Regulated and other balances for 31 March 2019 have been restated in the table above at constant currency. At actual currency the values were £17.6 billion and £19.5 billion respectively.

Other business assets and other balances for NGV and Other businesses for 31 March 2019 have been restated in the table above for the impact of IFRS 16 leases, constant currency and to exclude out 39% share of our investment in Quadgas. At actual currency excluding IFRS 16 leases the values were £2.8 billion and £2.7 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 assumption of 3% RPI inflation, 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 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.

## Other unaudited financial information continued

Year ended 31 March	2020 £m	2019 £m	2018 £m
Regulated financial performance	3,546	3,318	3,392
Operating profit of other activities	269	424	255
<b>Group financial performance</b>	<b>3,815</b>	<b>3,742</b>	<b>3,647</b>
Share of post-tax results of joint ventures and associates	88	40	238
Non-controlling interests	(1)	(3)	(1)
Adjusted Group interest charge	(1,069)	(1,037)	(980)
Group tax charge	(433)	(488)	(639)
Tax on adjustments	(117)	(34)	27
Group financial performance after interest and tax	2,283	2,220	2,292
Opening rate base/RAV	37,459	35,045	32,446
Share of Cadent RAV	–	–	512
Opening other balances	3,304	2,298	1,787
Opening goodwill	5,938	5,852	5,626
Opening capital employed	46,701	43,195	40,371
Opening net debt	(27,194)	(24,345)	(21,770)
Opening equity	19,507	18,850	18,601
<b>Return on Equity</b>	<b>11.7%</b>	<b>11.8%</b>	<b>12.3%</b>

### UK and US regulated RoE

Year ended 31 March	Regulatory Debt: Equity assumption	Achieved Return on Equity		Base or Allowed Return on Equity	
		2020 %	2019 %	2020 %	2019 %
UK Electricity Transmission	60/40	13.5	13.7	10.2	10.2
UK Gas Transmission	62.5/37.5	9.8	9.5	10.0	10.0
US Regulated	Avg. 50/50	9.3	8.8	9.4	9.4

#### UK regulated RoE

UK regulated 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 RPI inflation is equal to a long-run assumption of 3%. 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.

This is an important measure of UK regulated business performance, and our operational strategy continues to focus on this metric. This measure can be used to determine how we are performing under the RII framework and also helps investors to compare our performance with similarly regulated UK entities. Reflecting the importance of this metric, it is also a key component of the APP scheme.

The UK RoE is underpinned by the UK RAV. For the reasons noted above, no reconciliation to IFRS has been presented, as we do not believe it would be practical.

#### US regulated RoE

US regulated RoE is a measure of how a business is 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.

This is an important measure of our US regulated business performance, and our operational strategy continues to focus on this metric. 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 this metric, it is also a key component of the APP scheme.

The US return is based on a calculation which gives proportionately more weighting to those jurisdictions which have a greater rate base. For the reasons noted above, no reconciliation to IFRS for the RoE measure has 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 US Regulated segment, and the 'return' used to derive the US RoE. In outlining these differences, we also include the result for the US regulated Operating Companies (OpCo) entities aggregated under US GAAP.

In respect of 2018/19 and 2017/18, this measure is the aggregate operating profit of our US OpCo entities' publicly available financial statements prepared under US GAAP. For 2019/20, this measure represents our current estimate, since local financial statements have yet to be prepared.

	2020 £m	2019 £m	2018 £m
<b>Underlying IFRS operating profit for US regulated segment</b>	<b>1,636</b>	1,594	1,704
Weighted average £/\$ exchange rate	<b>\$1.2868</b>	\$1.305	\$1.358
	2020 \$m	2019 \$m	2018 \$m
<b>Underlying IFRS operating profit for US regulated segment</b>	<b>2,105</b>	2,081	2,313
<i>Adjustments to convert to US GAAP as applied in our US OpCo entities</i>			
Adjustment in respect of customer contributions	(50)	(50)	(151)
Pension accounting differences <sup>1</sup>	(13)	(10)	(101)
Environmental charges recorded under US GAAP	(94)	(117)	(106)
Storm costs and recoveries recorded under US GAAP	(9)	(112)	(113)
Other regulatory deferrals, amortisation and other items	3	121	(146)
<b>Results for US regulated OpCo entities, aggregated under US GAAP<sup>2</sup></b>	<b>1,942</b>	1,913	1,696
<i>Adjustments to determine regulatory operating profit used in US RoE</i>			
Levelisation revenue adjustment	(122)	(48)	82
Adjustment for COVID-19 related provision for bad and doubtful debts <sup>3</sup>	150	–	–
Net other	51	(1)	40
<b>Regulatory operating profit</b>	<b>2,021</b>	1,864	1,818
Pensions <sup>1</sup>	19	(95)	–
Regulatory interest charge	(491)	(457)	(395)
Regulatory tax charge	(408)	(345)	(520)
<b>Regulatory earnings used to determine US RoE</b>	<b>1,141</b>	967	903
	2020 \$m	2019 \$m	2018 \$m
US equity base (average for the year)	<b>12,331</b>	11,045	10,092
US RoE	<b>9.3%</b>	8.8%	8.9%

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 deb costs.

#### 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 on page 32. Value Added per share is calculated by dividing Value Added by the weighted average number of shares (3,461 million) set out in note 8 on page 145.

Value Growth of 10.4% (2018/19: 11.5%) is derived from Value Added by adjusting Value Added to normalise for a 3% long-run RPI inflation rate. In 2019/20, the numerator for Value Growth was £2,068 million (2018/19: £2,166 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 March 2019 are presented at historical exchange rates and have not been restated for opening balance adjustments.

As at 31 March	2020 £m	2019 £m	
UK RAV	20,431	19,692	
US rate base	20,644	17,565	
Other invested capital included in gearing calculation	4,105	2,815	
Total assets included in gearing calculation	45,180	40,072	
Net debt (including 100% of hybrid debt)	(28,590)	(26,529)	change
Group gearing (based on 100% of net debt)	63%	66%	3% pts
Group gearing (excluding 50% of hybrid debt from net debt)	61%	64%	3% pts

## Commentary on consolidated financial statements for the year ended 31 March 2019

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 2020 financial review included on pages 28 – 37.

### Analysis of the income statement for the year ended 31 March 2019

#### Revenue

Revenue for the year ended 31 March 2019 decreased by £317 million to £14,933 million. This decrease was driven by lower revenues in our UK Electricity Transmission business and in our UK Gas Transmission business, partially offset by higher revenues in our US Regulated and NGV and Other businesses. US Regulated revenues were £574 million higher year-on-year, principally due to the impact of new rate plans, the benefit of foreign exchange and recovery of prior year timing under-collections, partially offset by the collection of lower tax allowances and the impact of IFRS 15. UK Electricity Transmission revenues decreased by £803 million, (related to IFRS 15, which reduced both revenues and costs by £1.0 billion), partly offset by higher BSIS pass-through costs and return of prior year timing over-collections. UK Gas Transmission revenues were £195 million lower, driven by the return of allowances related to Avonmouth. Revenue from NGV and Other businesses increased by £100 million, primarily driven by sales in our Commercial Property business.

#### Operating costs

Operating costs for the year ended 31 March 2019 of £12,063 million were £306 million higher than the prior year. This increase in costs included a £608 million increase in exceptional items and remeasurements, which is discussed below. Excluding exceptional items and remeasurements, operating costs were £302 million lower, driven by the impact of IFRS 15, which reduced costs (and related revenues) for payments to other network owners by £1,043 million, partially offset by higher pass-through costs, increased rates and property taxes, higher depreciation as a result of continued asset investment and the impact of movement in exchange rates.

#### Net finance costs

For the year ended 31 March 2019, net finance costs before exceptional items and remeasurements were £8 million lower than 2017/18 at £993 million, mainly as a result of the impact of the stronger US dollar and lower pension net interest expense due to lower pension net liabilities and other interest gains, partially offset lower gains on the sale of financial assets and the impact of higher UK RPI inflation. Net finance costs in 2018/19 included remeasurement losses of £76 million on derivative financial instruments used to hedge our borrowings, compared to £119 million of remeasurement gains in 2017/18.

#### Tax

The tax charge on profits before exceptional items and remeasurements of £488 million was £96 million lower than 2017/18. This reduction was primarily due to a full year's benefit in 2018/19 from the Tax Cut & Jobs Act which reduced the US corporate tax rate from 35% to 21% with effect from 1 January 2018.

#### Exceptional items and remeasurements

Operating costs for the year ended 31 March 2019 included £283 million of costs arising from the workforce contingency plan related to the Massachusetts Gas labour dispute, £204 million of restructuring charges in our UK and US businesses and £137 million related to the impairment of nuclear connection development costs following the cancellation of the NuGen and Horizon projects. These were partially offset by a net £52 million gain on remeasurement of commodity contracts. In the previous year, operating costs included a £26 million gain on settlement of outstanding balances related to the LIPA Management Services Agreement, together with a net £10 million gain on remeasurement of commodity contracts.

Finance costs for the year ended 31 March 2019 included a net loss of £76 million on financial remeasurements of derivative financial instruments used to hedge our borrowings, compared to a gain of £119 million on financial remeasurements in 2017/18.

Share of post-tax results of joint ventures and associates before exceptional items for the year ended 31 March 2019 of £40 million was £4 million lower, principally due to higher costs in St William.

### 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 a 'business performance' basis, described further in note 5. See page 242 for a reconciliation of adjusted basic EPS to EPS.

The above earnings performance translated into an increase in adjusted EPS in 2018/19 of 3.7p (7%).

#### 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.

	2018/19	2017/18	% change
Weighted average (income statement)	1.31	1.36	4%
Year-end (statement of financial position)	1.30	1.40	7%

The movement in foreign exchange during 2018/19 has resulted in a £355 million increase in revenue, a £62 million increase in adjusted operating profit and a £63 million increase in operating profit.

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### Analysis of the adjusted operating profit by segment for the year ended 31 March 2019

#### UK Electricity Transmission

For the year ended 31 March 2019, revenue in the UK Electricity Transmission segment decreased by £803 million to £3,351 million, and adjusted operating profit decreased by £26 million to £1,015 million. Revenue was significantly impacted by the adoption of IFRS 15, with revenues collected from customers but passed on to the Scottish and Offshore transmission operators are now excluded from both revenue and operating costs, compared to £1,027 million in 2017/18. Excluding pass-through costs, net revenue was £43 million higher, reflecting higher baser allowances including the impact of inflation and increased incentives income, partially offset by the return of outstanding timing balances along with higher adjustments this year to return the benefits of efficiencies and lower required outputs to customers. Regulated controllable costs were £11 million higher, reflecting inflation, increased headcount and workload, and initiative spend. Depreciation and amortisation was £18 million higher, reflecting the continued capital investment programme. Other costs were £41 million higher, principally relating to provision against income recognised on early termination of connections.

Capital expenditure decreased by £74 million compared with 2016/17 to £925 million reflecting reduced activity on Western Link and completion of the London Power Tunnels project.

### UK Gas Transmission

Revenue in the UK Gas Transmission segment decreased by £195 million to £896 million, and adjusted operating profit decreased by £184 million to £303 million.

After deducting pass-through costs, net revenue was £165 million lower than 2017/18, reflecting the refund of revenues previously received in respect of the proposed Avonmouth pipeline project that is no longer required. Regulated controllable costs were £2 million lower than 2017/18, with efficiency savings offsetting the higher IT run-the-business costs and the impact of inflation. Pension costs were £9 million higher mainly related to the Guaranteed Minimum Pension equalisation ruling. Depreciation and amortisation costs were £13 million lower following a detailed review of asset lives in the year. Other operating costs were £25 million higher than 2017/18, as a result of the release of unused provisions in the prior year.

Capital expenditure marginally decreased to £308 million, £2 million lower than last year.

### US Regulated

Revenue in our US Regulated business increased by £574 million to £9,846 million, and adjusted operating profit increased by £26 million to £1,724 million.

The stronger US dollar decreased revenue and operating profit in 2018/19. Excluding the impact of foreign exchange rate movements, revenue increased by £202 million. Of this increase, £21 million was due to increases in pass-through costs charged on to customers. Excluding pass-through costs, net revenue increased by £181 million at constant currency, principally reflecting increased revenue allowances under rate plans in upstate and downstate New York and in Massachusetts, partially offset by the impact of US tax reform (as the billing tariffs now reflect lower tax requirements) and the impact of IFRS 15, under which customer connection revenues are now recognised over the life of the asset rather than on completion of the works.

We incurred £93 million of major storm costs in 2018/19 through a number of heavy winter storms that caused substantial damage to our electricity networks, compared to £142 million in 2017/18. Excluding these costs and the impact of foreign exchange movements, regulated controllable costs increased by £106 million, reflecting workload increases agreed with regulators and the impact of inflation. Bad debt expense increased by £42 million at constant currency, reflecting higher levels of receivables and cash collection studies. Depreciation and amortisation was £40 million higher in 2018/19 at constant currency as a result of ongoing investment in our networks. Other operating costs were £41 million higher at constant currency, due to more expenditure on 'minor' storms (non-deferrable) and increased cost of removal.

Capital expenditure in the US Regulated business increased to £2,650 million in 2018/19, £226 million more than in 2017/18. At constant currency, this represented a £129 million increase in investment driven by higher investment in new and replacement gas mains and gas business enablement investment, partially offset by the impact of the Massachusetts Gas labour dispute.

### NGV and Other

Revenue in NGV and Other increased by £100 million to £876 million, and adjusted operating profit increased by £169 million to £400 million. This reflects higher revenues and profit on disposal of property sites in the UK and lower costs to setting up our new business and the absence of the impairment of land value in 2017/18.

Capital expenditure in NGV and Other was £107 million higher than 2017/18 at £438 million, including the increased investment in a second French Interconnector and in the North Sea Link interconnector to Norway.

## Summary consolidated 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 2020. 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 2020, 2019, 2018, and 2016 where relevant and has been prepared under IFRS as issued by the IASB and as adopted by the EU.

Summary income statement (£m)	2020	2019	2018 <sup>1</sup>	2017	2016 <sup>2</sup>
Continuing operations					
Revenue	14,540	14,933	15,250	15,035	13,212
Operating profit					
Before exceptional items, remeasurements	3,307	3,442	3,457	3,773	3,214
Exceptional items, remeasurements	(527)	(572)	36	(565)	11
Profit before tax					
Before exceptional items, remeasurements	2,346	2,489	2,500	2,807	2,417
Exceptional items, remeasurements	(592)	(648)	160	(623)	(88)
Profit after tax from continuing operations					
Before exceptional items, remeasurements	1,913	2,001	1,916	2,141	1,813
Exceptional items, remeasurements	(639)	(499)	1,633	(331)	89
(Loss)/profit after tax from discontinued operations					
Before exceptional items, remeasurements	5	57	145	606	576
Exceptional items, remeasurements	(14)	(45)	(143)	57	116
Gain on disposal of UK Gas Distribution after tax	–	–	–	5,321	–
Total profit for the year	1,265	1,514	3,551	7,794	2,594
Profit for the year attributable to equity shareholders					
Before exceptional items, remeasurements	1,917	2,055	2,060	2,747	2,386
Exceptional items, remeasurements	(653)	(544)	1,490	(273)	205
Gain on disposal of UK Gas Distribution after tax	–	–	–	5,321	–
Total	1,264	1,511	3,550	7,795	2,591
<b>Earnings per share</b>					
Basic – continuing operations (pence)	36.8	44.3	102.5	48.1	50.4
Diluted – continuing operations (pence)	36.6	44.1	102.1	47.9	50.2
Basic – total (pence)	36.5	44.6	102.6	207.1	68.7
Diluted – total (pence)	36.3	44.4	102.1	206.2	68.4
Weighted average number of shares – basic (millions)	3,461	3,386	3,461	3,763	3,774
Weighted average number of shares – diluted (millions)	3,478	3,401	3,476	3,780	3,790
<b>Dividends per ordinary share</b>					
Paid during the year (pence)	47.83	46.52	128.97	43.51	43.16
Approved or proposed during the year (pence) <sup>3</sup>	48.57	47.34	45.93	128.65	43.34
Paid during the year (\$)	0.615	0.607	1.751	0.555	0.664
Approved or proposed during the year (\$)	0.625	0.618	0.624	1.642	0.635

1. Items previously reported for 2018 have been re-presented to reflect our investment in Quadgas HoldCo Limited being presented as a discontinued operation in the current year.

2. Items previously reported for 2016 have been re-presented to reflect UK Gas Distribution being presented as a discontinued operation.

3. Following the disposal of UK Gas Distribution, 2017 includes a special interim dividend of 84.375 pence per share that was paid on 2 June 2017

Summary statement of net assets (£m)	2020	2019	2018	2017	2016
Non-current assets	61,288	55,017	52,106	52,266	52,622
Current assets	5,801	7,946	6,681	13,574	6,312
Total assets	67,089	62,963	58,787	65,840	58,934
Current liabilities	(8,564)	(9,129)	(8,697)	(10,511)	(7,721)
Non-current liabilities	(38,941)	(34,465)	(31,242)	(34,945)	(37,648)
Total liabilities	(47,505)	(43,594)	(39,939)	(45,456)	(45,369)
Net assets	19,584	19,369	18,848	20,384	13,565
<b>Total shareholders' equity</b>	<b>19,562</b>	<b>19,349</b>	<b>18,832</b>	<b>20,368</b>	<b>13,555</b>



## 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 240 – 249.**

### 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

#### **BAME**

Black, Asian and Minority Ethnic (being the UK term used to refer to members of non-white communities).

#### **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.

#### **Board**

The Board of Directors of the Company (for more information see pages 66 and 67).

#### **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.

#### **BritNed**

BritNed Development Limited.

### C

#### **Cadent**

Cadent Gas Limited, the Company's former UK Gas Distribution business. A 61% equity interest in it was sold to the Consortium on 31 March 2017, and the sale of the remaining 39% to the Consortium completed on 28 June 2019.

#### **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.

#### **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.

#### **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.

#### **Consortium**

The Consortium that purchased Cadent. It comprised Macquarie Infrastructure and Real Assets, Allianz Capital Partners, Hermes Investment Management, CIC Capital Corporation, Qatar Investment Authority, Dalmore Capital, and Amber Infrastructure Limited/International Public Partnerships.

#### **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 2020, which was \$1.29 to £1. The average rate for the year ended 31 March 2019 was \$1.31 to £1, and for the year ended 31 March 2018 was \$1.36 to £1. Assets and liabilities as at 31 March 2019 have been retranslated at the closing rate at 31 March 2020 of \$1.24 to £1. The closing rate for the balance sheet date 31 March 2019 was \$1.30 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.

#### **COVID-19**

COVID-19 or coronavirus disease is an infectious disease caused by a newly discovered coronavirus which spreads through droplets of saliva or discharge from the nose when an infected person coughs or sneezes.

#### **CPIH**

The UK Consumer Prices Index including Owner Occupiers' Housing Costs as published by the Office for National Statistics.

### D

#### **Dth**

Decatherm, being an amount of energy equal to 1 million British thermal units (BTUs), equivalent to approximately 293 kWh.

#### **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**

Depositary means the Bank of New York Mellon acting as 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 66 and 67 of this document.

## Definitions and glossary of terms continued

### 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.

### Dollars or \$

Except as otherwise noted, all references to dollars or \$ in this Annual Report and Accounts relate to the US currency.

## 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 209 – 215, 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.

### Geronimo

Geronimo, a leading developer of wind and solar generation based in Minneapolis in the US, which National Grid acquired in July 2019.

### Grain LNG

National Grid Grain LNG Limited.

### Great Britain

England, Wales and Scotland.

### Group Value Growth

Group Value Growth is Group-wide value added expressed as a proportion of Group equity. See page 32 for an explanation of Value Added.

### GW

Gigawatt, an amount of power equal to 1 billion watts (10<sup>9</sup> watts).

### GWh

Gigawatt hours, an amount of energy equivalent to delivering 1 billion watts (10<sup>9</sup> watts) of power for a period of one hour.

## H

### Hinkley-Seabank (HSB)

A project to connect the new Hinkley Point C nuclear power station to the electricity transmission network.

### 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.

### Injury frequency rate (IFR)

The number of lost time injuries (LTIs) per 100,000 hours worked in a 12-month period.

### 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.

## M

### MADPU

The Massachusetts Department of Public Utilities.

### MW

Megawatt, an amount of power equal to 1 million watts.

### MWh

Megawatt hours, an amount of energy equivalent to delivering 1 million watts (10<sup>6</sup>) 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 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 Geronimo, electricity interconnectors, the Grain LNG terminal and energy metering, as well as being tasked with investment in adjacent businesses, distributed energy opportunities and the development of new and evolving technologies.

### National Transmission System (NTS)

The gas National Transmission System in Great Britain.

### 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 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.

### 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 12<sup>204473</sup> 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.

### 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.

## Definitions and glossary of terms continued

### 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 that started on 1 April 2013.

### RIIO-2

The regulatory framework for energy networks expected to be issued by Ofgem to start on 1 April 2021.

### 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.

### SF<sub>6</sub>

Sulphur hexafluoride is an inorganic, colourless, odourless and non-flammable greenhouse gas. SF<sub>6</sub> 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 SF<sub>6</sub> is 23,900 times more potent than that of CO<sub>2</sub>.

### Share premium

The difference between the amount shares are issued for and the nominal value of those shares.

### STEM

Science, technology, engineering and mathematics.

### Stranded cost recoveries

The recovery of historical generation-related costs in the US, related to generation assets that are no longer owned by us.

### 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

### Tax Convention

Tax Convention means 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 HMRC.

### Tonne

A unit of mass equal to 1,000 kilogrammes, equivalent to approximately 2,205 pounds.

### Tonnes carbon dioxide equivalent (CO<sub>2</sub>e)

A measure of greenhouse gas emissions in terms of the equivalent amount of carbon dioxide.

### 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 principles 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.

### 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 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 249.

## 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) 121 415 0931. Calls from outside the UK will be charged at the applicable international rate.



Visit [help.shareview.co.uk](http://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



[www.mybnymdr.com](http://www.mybnymdr.com)

Email: [shrrelations@cpushareownerservices.com](mailto: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:  
<http://investors.nationalgrid.com>

### 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 the company or person contacting you is properly authorised by the Financial Conduct Authority (FCA) before getting involved. Be ScamSmart and visit [www.fca.org.uk/scamsmart](http://www.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:

18 June 2020	2019/20 full-year results
1 July 2020	ADRs go ex-dividend for 2019/20 final dividend
2 July 2020	Ordinary shares go ex-dividend for 2019/20 final dividend
3 July 2020	Record date for 2019/20 final dividend
9 July 2020	Scrip reference price announced
22 July 2020 (5pm London time)	Scrip election date
27 July 2020	2020 AGM
19 August 2020	2019/20 final dividend paid to qualifying shareholders
12 November 2020	2020/21 half-year results
25 November 2020	ADRs go ex-dividend for 2020/21 interim dividend
26 November 2020	Ordinary shares go ex-dividend for 2020/21 interim dividend
27 November 2020	Record date for 2020/21 interim dividend
3 December 2020	Scrip reference price announced
14 December 2020 (5pm London time)	Scrip election date for 2020/21 interim dividend
13 January 2021	2020/21 interim dividend paid to qualifying shareholders

### Dividends

The Directors are recommending a final dividend of 32.00 pence per ordinary share (\$2.0126 per ADS) to be paid on 19 August 2020 to shareholders on the register as at 3 July 2020. Further details on dividend payments can be found on page 37. 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 2019/20 final dividend will be charged a fee of \$0.02 per ADS by the Depositary prior to the distribution of the cash dividend.

### Have your dividends paid directly into your bank or building society account:

- your dividend reaches your account on the payment day;
- it is more secure – cheques sometimes get lost in the post; and
- 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 [www.shareview.co.uk](http://www.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 offer 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 [www.shareview.co.uk](http://www.shareview.co.uk) or call Equiniti on 0800 169 7775.

**Internet and telephone share dealing:** Equiniti also offer telephone and online share dealing at live prices. For full details together with terms and conditions, please visit [www.shareview.co.uk](http://www.shareview.co.uk). You can call Equiniti on 03456 037037 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 [www.sharegift.org](http://www.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 300 0430 or visit [www.shareview.co.uk/ISA](http://www.shareview.co.uk/ISA).

## Cautionary statement

This document comprises the Annual Report and Accounts for the year ended 31 March 2020 for National Grid 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 – 107 and 216 – 252 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. These forward-looking statements 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. Many of these assumptions, risks and uncertainties relate to factors that are beyond our ability to control or estimate precisely, such as the impact of COVID-19 on our operations, our employees, our counterparties, our funding and our regulatory and legal obligations, but also more widely in terms of 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 proposals relating to the RII0-2 price as well as increased economic uncertainty resulting from COVID-19; 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; 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 the breach 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.

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 227 – 230 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.

The contents of any website references in this document do not form part 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, who offset 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 CO<sub>2</sub> and global warming effects. Additional to the carbon benefits is the flora and fauna this land preserves, including a number of species identified at risk of extinction on the IUCN Red List of Threatened Species.

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