

London 6 July 2023





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John Pettigrew

Chief Executive, National Grid







Since acquisition

- New leadership team
- RIIO-ED2 price control agreed
 - Targeting **100-125bps** operational outperformance
- Rolled out new branding
- Integrated corporate and back-office functions
- **£100m** of synergies identified across the Group

Continued **top quartile performance** across all key metrics







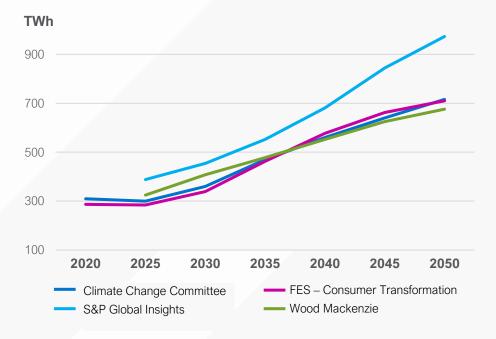






Electrification: driving investment and growth

UK electricity demand to 2050¹



Distribution networks are changing

- Smarter, multidirectional and flexible
- Growing to accommodate electrification
- >30% increase² in annual investment from ED1 to ED2
- Long-term sustainable waves of growth



 Sources: Climate Change Committee, The Sixth Carbon Budget Electricity Generation (p38, Fig A3.4.a); FES – Future Energy Scenarios 2022, Data Workbook (tab ED1); S&P Global Insights - European Electricity Long-Term Forecast March 2023; Wood Mackenzie Europe Power Service, Great Britain Long Term Power Outlook Base Case, May 2023.
 Nominal capital expenditure level



Enhancing our role in the energy transition

- UK's largest energy networks company
- Whole system approach
 - Building resilient, flexible systems
 - Optimising transmission and distribution investment

£100m synergies over 3 years

- ~75% in UK, helping to underpin UK outperformance targets
- ~25% in US, supporting achieved returns













• A balanced and diversified portfolio

- Attractive growth and yield
- Mix of real and nominal regulation within stable jurisdictions
- 70% of Group's assets focused on electricity
- Asset base balanced across UK and US
- Progressive dividend delivered over past 20 years
- Total shareholder return higher than FTSE 100 over the past decade

Geographic and regulatory diversity Geographi Asset base post strategic repositioning¹ and Regulatory Diversity **Energy split Geographical split** US regulated Gas ~40% **UK** regulated ~30% ~50% Electricity NGV and Other ~70% ~10%

1. Calculated as the proportion of actual FY23 asset base post completion of the acquisition of Western Power Distribution, and the sale of the Rhode Island business and majority stake in UK Gas Transmission and Metering





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Electricity Distribution

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Cordi O'Hara

President, National Grid Electricity Distribution









National Grid Electricity Distribution

Key messages

- Strong track record of performance
- Targeting outperformance of 100-125bps in RIIO-ED2
- Long-term waves of investment for decades to come



Cordi O'Hara

President, National Grid Electricity Distribution



Darren Pettifer

CFO, National Grid Electricity Distribution









- Business overview
- The RIIO-ED2 price control
- Our priorities and financial outlook

Q&A

Coffee break

Breakouts

- The Future Electricity System
- Innovating for Growth
- Transforming our Region
 Networking







Safety

FY23 Lost Time Injury Frequency Rate of 0.076

Industry leading customer satisfaction

• FY23 customer satisfaction score of 8.99 out of 10

World class safety and strong reliability performance

- Network reliability of 99.995%
- Average outage once every 2.5 years for 28 minutes

Environment

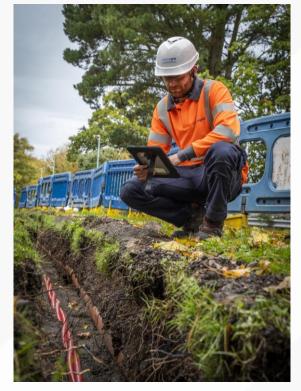
Electricity

Reduced carbon footprint >40% since start of ED1

Financial performance

Excellent ROE outperformance throughout ED1

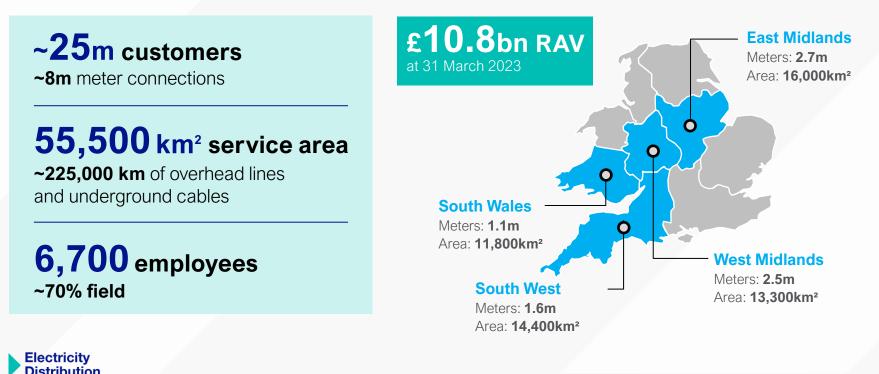




National Grid Electricity Distribution /

national**grid** the local **electric revolution**

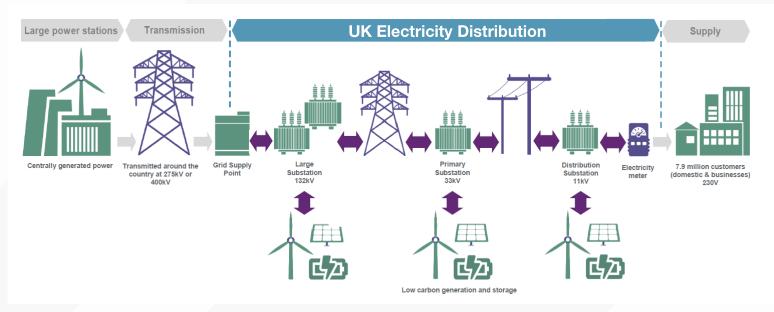
The UK's largest electricity distribution network operator (DNO)



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National Grid Electricity Distribution



- Providing essential power to homes and businesses
- Working with governments and communities to understand and deliver their energy priorities





Delivering for our customers



Demand for greater electrification

Increased investment

Asset health maintenance

Connect low carbon technologies

Enabling the digital grid

Network reinforcement

Twice as many EV connections in the past 2 years than in all previous years combined



Customers could add more than a second home's worth of demand through electric heating and EVs

Our work on asset health will see us replace 3,000km of cable in ED2



Our online EV portal enables customers to get a connection offer in 2 seconds









April 2023 – March 2028

- Baseline allowance for ED2
 - >30% increase in annual totex compared to ED1
- Targeting ROE outperformance of 100-125bps
 - Partly underpinned by synergy benefits
- Focus on totex efficiency
 - Also supports affordability for customers
- Scale and scope of ED2 markedly different to ED1
 - Increase in size and volume of capital projects
 - Supply chain efficiency
 - Comprehensive asset management capabilities required









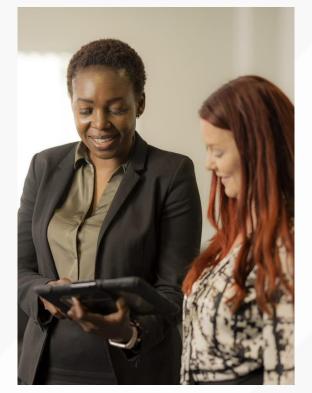
Incentives

Distribution System Operator (DSO)

- National Grid has a deep history of complex system operation
- Already underway developing
 - New DSO and governance
 - Connections reform
 - Expanded local flexibility markets

Vulnerable Customers – leaving no one behind

- Ensuring a fair transition
- >£15m of bill savings for 24,000 customers last year
- Smart energy action plans

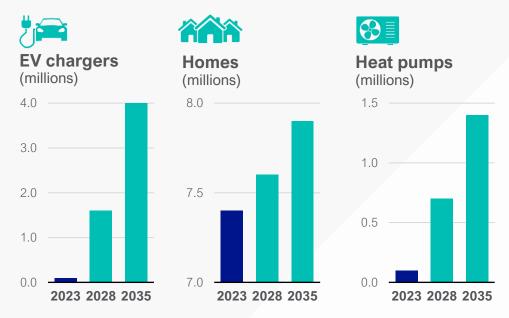








- Decarbonisation driving current and long-term investment
- Electricity demand forecast to double by 2050
- Increased flows on our networks driven by
 - Electrification of transport
 - Growth in domestic housing
 - Decarbonisation of heat



Sustained growth through the 2030s and beyond







Uniquely positioned as the largest electricity distribution business in the UK



Strong foundations and set up well to deliver ED2

- Strong ED1 performance to build on
- Opportunity in ED2 to outperform
 - New incentives
 - Totex outperformance
 - Long-term growth

Targeting **100-125bps ROE** outperformance across ED2







Darren Pettifer

CFO, National Grid Electricity Distribution







Totex allowances

- Baseline allowance for ED2: £8bn nominal¹
 - >30% nominal increase vs ED1 annual spend

Incentives

- Extends customer and reliability incentives from ED1
- New Distribution System Operator and Customer Vulnerability incentives

Financial framework

- Allowed equity return: ~5.3% indexed to risk free rates
- Debt mechanism tracks prevailing interest rates

Uncertainty Mechanisms

• Flex revenue for external factors and outputs delivered









Totex efficiency

• A sharper focus on efficient delivery

Updated real returns

- Move from RPI to CPIH inflation increases cash return
- ROE adjusted annually for risk free rate
 - 1% movement in gilt rate is ~20bps on ROE

Uncertainty Mechanisms

- 38 Uncertainty Mechanisms
 - >50% automatic
 - Includes revenue indexation for equipment and labour
 - 16 reopeners, including cyber, primary reinforcement and connections
- Forecast to represent <5% of totex

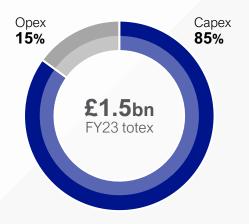
Electricity Distribution







Historic totex



Capital expenditure in ED2





1. Nominal capital expenditure, including capex funded by contributions and uncertainty mechanisms

FY16

FY17

FY18

FY19

FY20

FY21

FY22

FY23

FY24

FY25

FY26

FY27

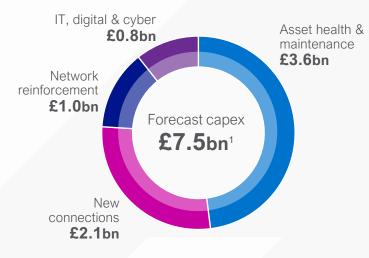
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FY28





Capital expenditure FY2023-28



New load and connections

- Representing **10%** annual growth from FY23 levels
 - 75% demand connections: electric vehicle charging, heat pumps
 - **25%** generation: solar and battery storage

Network reinforcement

- >100% increase compared to ED1
 - Projected total electricity demand increasing by 10% across our network

Asset health and maintenance

- 15% increase vs ED1
 - To maintain world class reliability and enable climate resilience

IT, digital and cyber

>100% increase vs ED1

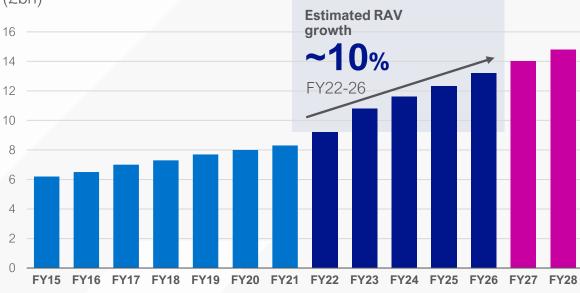


1. Nominal capital expenditure, including capex funded by contributions and uncertainty mechanisms





UK Electricity Distribution RAV (£bn)



UK Electricity Distribution RAV growth

• At top end of 8-10% group asset growth CAGR over FY22-26^{1,2}



1. Compound annual growth rate as part of Group 5 year financial outlook 2. Forward years based on long run CPIH inflation assumptions

Wholesale

Gas transmission & distribution **Electricity Transmission Electricity Distribution** ~£100 Other charges, fees, taxes

Growth plans vital to network reliability and energy transition

- ~£100 of annual household bills
 - Holding bills flat through cost efficiencies²
- Strong efficiency track record through ED1
 - Focused on delivering for our customers

Targeted ROE outperformance

100 - 125bps in RIIO-ED2

Totex efficiency Synergy benefits performance



Typical household bill £2,074

1. Ofgem energy price cap from 1 July 2023, for households without a pre-payment meter 2. In real terms

Incentive



nationalgrid Delivering ROE outperformance the local electric revolution



Our plan to deliver

- Targeted programme of efficiency work rolled out and scaled up during ED2
- Capitalising on common operations structure and systems across our regions

Driving totex efficiency

• Data driven approach provides visibility to unit costs

Minimising Spend

Removing unnecessary spend on labour, materials and unwieldy processes

Performance Strategy

A new drumbeat on performance execution



Changes to our contracts model – how we triage, organise and schedule work, and embed new technology











E100m synergies over 3 years

- 1/3 from UK Electricity Distribution
- 2/3 from across the Group

Procurement savings

- Using broader scale of National Grid
- Saved £4m p.a. in recent High Voltage cable tender



Asset management and maintenance

- More condition rather than timebased maintenance
- Reduce opex whilst maintaining reliability



Reviewing property strategy

- Leverage shared sites and personnel
- Consolidating offices and depots
 through 'Future of Work' programme







- Top performing network for reliability incentives
 - Targeted investment to reduce minutes lost further
- · Aiming to achieve highest levels of customer satisfaction
 - At least 9.3 out of 10
 - Digital developments to better inform customers
 - Reforming connections approach
 - New customer excellence team
- New DSO and Customer Vulnerability incentives
- Further outperformance opportunity on financing
 - In addition to 100-125bps operational outperformance



Expect incentive performance to deliver **30%** of 100-125bp operational performance target









- ED2 framework better revenue adjustments for external uncertainties
- Decarbonisation driving >30% increase in annual investment in ED2
- ROE of at least 8.3% across ED2
 - ~5.3% base return
 - 2.0% assumed long-run CPIH inflation
 - 100-125bps operational outperformance target
- Attractive mix of yield and growth
 - Good visibility of waves of investment over the next decade and beyond











