Sustainable business update

What we’re doing today, tomorrow and in the coming years to help Britain achieve Net Zero
Welcome

The energy and cost of living crises are causing major challenges for the UK energy sector and its customers: how to achieve Net Zero and ensure secure and affordable energy in the context of rising energy prices?

At EDF, we aim to be part of the solution, working with the industry, policymakers and other stakeholders to answer this question. This update explains our strategy to help Britain achieve Net Zero affordably, securely and responsibly.

Wholesale energy prices have surged over the last year due to increasing global demand and tightening supply, notably due the Russian invasion of Ukraine. This is having an unprecedented impact on the bills of households and businesses.

We are doing everything we can to help customers through the crisis and work with the Government, the regulator and others to ensure support is there for those who need it.

At the same time we remain committed to our long-term goal to help Britain achieve Net Zero. Fortunately, the answers to both climate change and avoiding further energy crises are the same: use energy efficiently and produce what is used from low-carbon, non-fossil sources.

Low-carbon energy

We welcome the Government’s Energy Security Strategy; Britain is right to take control of its energy future, with a step change in ambition for electricity from wind, nuclear and solar, and greater energy efficiency. As the country’s biggest zero carbon generator, we are perfectly placed to help.

We are enabling over £50 billion of investment to generate more than 15GW of zero carbon electricity by 2035.

Customers

We take our responsibility for the welfare of customers very seriously. The cost of living crisis means we are already seeing an increase in customers worried about debt. We have doubled the money we set aside to help vulnerable customers to £10 million in 2022, and provide support through partnerships with a range of charities and others.

We are also helping customers to understand and reduce their energy consumption and bills, by offering smart meters and insight through the Energy Hub, as well as energy efficiency solutions such as insulation and efficient heating solutions.

This year we brought forward an additional £20 million spend on energy efficiency for vulnerable customers.

For the long-term, we are investing in innovative, affordable, low-carbon energy solutions, including electric vehicles, storage, onsite generation and tools to control energy use.

Responsible business

The transition to a low-carbon economy must be safe, just and positive for our people, the communities we are part of, and the environment. We have set goals to continue to provide a great place to work, and continue to make a broader positive social contribution, which we work with partners to achieve.

We have achieved a lot, but there is much more to do.

As the last 12 months have shown, there will be challenges along the way; these are also opportunities at EDF to make a positive difference, and I want to thank you for your ongoing engagement on these important issues.

Simone Rossi, CEO EDF

Fortunately, the answers to both climate change and avoiding further energy crises are the same: use energy efficiently and produce what is used from low-carbon, non-fossil sources.
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Sustainable business datasheet >
Our purpose is to help Britain achieve Net Zero

We are the country's biggest zero carbon electricity generator\(^1\) and support customers in decarbonising their energy usage.

We are leading the transition to a decarbonised energy system across our seven business areas:

- **Generating** electricity and delivering decommissioning responsibly
- **Supplying** electricity and gas and energy solutions to domestic and business customers
- **Leading on new nuclear** in the UK by building a power station at Hinkley Point C\(^2\)
- **Developing further new nuclear** power stations, including Sizewell C
- **Developing, constructing and operating wind, solar and battery** assets through EDF Renewables UK
- **Technical services**, energy and low-carbon solutions at customer sites through Imtech
- **Electric mobility**, including majority ownership in PodPoint, a leading UK charging point company

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\(^1\)The Government Department BEIS recognises electricity from wind, solar and nuclear fuel produces zero carbon dioxide emissions at the point of generation.

\(^2\)In partnership with China General Nuclear Corporation.
Our strategy and Net Zero roadmap
Our purpose is to help Britain achieve Net Zero. In 2020, we made a commitment to help the UK achieve Net Zero emissions by 2050. It is now more important than ever that we do this in an affordable, secure and responsible way.

Our purpose is a UK articulation of the EDF Group raison d’être: to build a net zero energy future with electricity and innovative solutions and services, to help protect and nurture the environment and drive well-being and economic development. It underpins our strategy and decision-making, and helps our activities be compatible with achieving our objectives in a sustainable and fair way.

We are working to achieve Net Zero in a sustainable way – environmentally, economically and socially.

We are committed to driving progress in-line with the UN’s Sustainable Development Goals, the ambitions set at COP26; initiatives such as Race to Zero, and the UK Government’s Net Zero and Energy Security Strategies.

Recent energy price increases, driven by global gas prices and the war in Ukraine, are strongly impacting the UK operating environment, creating affordability challenges for customers and significant financial pressures on energy suppliers. We are highly engaged with the Government and Ofgem to identify solutions to help ensure energy is affordable and that regulation drives a resilient, competitive energy market that brings benefits to customers, whilst supporting customers, colleagues and communities through this challenging period.

Ensuring energy security without an excessive cost on household and business finances, or the planet, requires a low-carbon, efficient energy system.

We are a leading investor and industrial developer of wind, nuclear and solar generation alongside energy storage, efficiency and other new technologies to support the transition to a low-carbon economy.
OUR AIMS AND OBJECTIVES

Helping our customers achieve Net Zero

We want to do as much as we can to be part of the solution to the affordability crisis and we have a long standing commitment to helping vulnerable and fuel-poor households.

As one of the largest energy suppliers in Great Britain, we aim to be a UK leader in key low-carbon customer solutions, supporting business and residential customers to become more efficient and switch to low-carbon lifestyles. We do this amongst other things, by supplying heat pumps, energy efficiency upgrades, smart meters, electric vehicle (EV) charging solutions, renewable PPAs\(^3\) and solar panels.

WE support customers during the affordability crisis. We are engaging with Government and the industry to help identify and promote ways to make energy affordable.

By 2030, we will help customers avoid 5MtCO\(_2\)e per annum through low-carbon solutions we help them to install.\(^4\) This is equivalent to the emissions from heating more than 2 million UK homes for a year.

Our Goals

We support customers during the affordability crisis. We are engaging with Government and the industry to help identify and promote ways to make energy affordable.

In support of the British Energy Security Strategy, our goal is to develop over 15GW of zero carbon electricity by 2035.

We will reduce the carbon intensity at the point of generation to 0g CO\(_2\)e/MWh during 2023.

Helping our customers achieve Net Zero

Zero carbon electricity

We are Britain’s biggest zero carbon electricity generator, operating, developing and constructing a fleet of nuclear, wind and solar.

We aim to accelerate the shift to safe, reliable and efficient low-carbon energy generation and storage.

Together Sizewell B, Sizewell C and Hinkley Point C could deliver reliable low-carbon power for more than 15 million homes, and we have an expanding portfolio of renewables with almost 5GW of projects in planning and development.

We are making a strong socio-economic contribution, supporting customers, local economies and communities, and the STEM skills of tomorrow’s energy innovators.

We will be Net Zero by 2050 and have a fully electric light-vehicle fleet by 2030.

50% of senior leaders will have diverse characteristics (gender, ethnicity, sexual orientation and disability) by 2030.

We aim to maintain >80% pride score in our annual employee survey.

UN SUSTAINABLE DEVELOPMENT GOALS

\(^3\) A Renewable Power Purchase Agreement (PPA) is a mechanism to purchase electricity directly from a renewable energy generator, such as a wind farm

\(^4\) Carbon emissions avoided per year by installing low-carbon customer solutions, which include smart meters, EV charging point, heat pumps and solar PVs
We are Britain’s biggest generator of zero carbon electricity. We produced around 17% of the nation’s electricity in 2021.

1GW of gross renewables capacity in operation and almost 5GW in planning.

In-line with our goals, we reduced the carbon intensity at the point of generation by nearly 30% in 2021.

30% increase in electric light-vehicle fleet between 2020 and 2021.

£18 billion of projected economic value to the UK from our Hinkley Point C project, with 3,800 British businesses involved and 15,000 new jobs created to date.

Employee pride
Based on MyEDF employee engagement survey

Diversity and Inclusion index
Based on MyEDF employee engagement survey

5 At time of publication
6 EDF Renewables UK and Ireland
7 Based on MyEDF employee engagement survey

EDF Sustainable business update
EDF takes responsibility for the UK nuclear fleet

EDF Group commits to stopping coal-based electricity and decommissioning starts at our Cottam coal powered station

Acquired Pivot Power, Energy Superhub developer

Commissioning of Dorenell wind farm in Scotland

EDF takes responsibility for the UK nuclear fleet

EDF Group develops climate change adaptation strategy and publishes first complete greenhouse gas emissions assessment

Commissioning of Dorenell wind farm in Scotland

EDF takes responsibility for the UK nuclear fleet

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First year of electricity generation from Unit 1 of Hinkley Point C (1.6GW)

100% EDF light-vehicle fleet switched to electric

Over 5 million tonnes of CO2 avoided per annum through low-carbon customer solutions

EDF Group reduces direct and indirect emissions 50% (vs. 2013) and scope 3 emissions 28% (vs. 2019)

EDF in the UK has helped to enable investment in over 15GW wind, nuclear and solar

UK and EDF group to achieve Net Zero

Indicative date for final investment decision on Sizewell C

Carbon intensity at the point of generation reduced to 0gCO2e/kWh following the closure of West Burton A, our last coal plant

Decision on life extension of Sizewell B nuclear station to 2055

Neart na Gaoithe offshore wind farm to come online

Start of electricity generation from Unit 1 of Hinkley Point C (1.6GW)

100% EDF light-vehicle fleet switched to electric

Over 5 million tonnes of CO2 avoided per annum through low-carbon customer solutions

EDF Group reduces direct and indirect emissions 50% (vs. 2013) and scope 3 emissions 28% (vs. 2019)

EDF in the UK has helped to enable investment in over 15GW wind, nuclear and solar

UK and EDF group to achieve Net Zero

2009

2011

2019

2020

2021

2022

2023

2024

2027

2030

2035

2050

Five years after getting the go-ahead, 22,000 people are working on Hinkley Point C and £3.2 billion has been spent directly with local businesses in the South West

EDF leads Ofgem supplier delivery progress for ECO3 energy efficiency programme

EDF launches Energy Hub consumption insight platform for smart metered customers

New partnership between EDF Renewables UK and Vantage RE for Blyth offshore wind farm

Investment in, and partnership with, heat pump installer CB Heating, supporting the development of a Heat Pump Installers Network Academy

Partnership between EDF Renewables UK and DP Energy for Gwynt Glas floating wind Celtic Sea project

Installation of the first major solar project for EDF Renewables in the UK, Sutton Bridge solar farm, with generation to start by late 2022

Planning consent granted for Sizewell C

Pivot Power opens Europe’s most powerful EV charging hub, completing Energy Superhub Oxford

EDF in the UK has helped to enable investment in over 15GW wind, nuclear and solar

UK and EDF group to achieve Net Zero

EDF Sustainable business update
Britain’s Net Zero future
The UK energy sector is facing two major challenges: achieving Net Zero and ensuring secure, affordable energy in the context of rising energy prices and cost of living.

Our strategy aims to deliver both low-carbon and affordable energy for the UK. Our investment in nuclear, renewables, storage, low-carbon hydrogen, and low-carbon customer solutions such as heat pumps, energy efficiency and electric transport, supports customers in reducing their carbon footprint and energy bills.

In April 2022, the Government published the UK’s [Energy Security Strategy](#) to reinforce the commitment to decarbonisation and to greater energy security and independence — commitments reinforced by the new Government in September 2022. In addition the Government has set out ambitious plans across key sectors, such as the Ten Point Plan for a Green Industrial Revolution, the Energy White Paper, North Sea Transition Deal, Industrial Decarbonisation Strategy, Transport Decarbonisation Plan, Hydrogen Strategy, and the Heat and Buildings Strategy.

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**Key UK Government energy priorities**

- **Nuclear power** (24GW by 2050)
  - Hinkley Point C 2xEPR (3.2GW)
  - Sizewell C 2xEPR (3.2GW)
  - Potential for further developments in a range of nuclear technologies and services
- **Low-carbon hydrogen** (10GW by 2030)
- **Renewables-dominated mix with major role for offshore wind** (50GW by 2030)
  - Wind and Solar
  - Large batteries; high volume grid-connection hubs (Pivot Power) UK & Ireland
- **Greener buildings** (600k heat pump installations p.a. by 2028)
  - Technical services, energy and low-carbon solutions at customer sites
- **Shift to zero emission vehicles** (phaseout of petrol/diesel vehicles 2030)
  - Majority stake in Pod Point, a leading UK EV charging firm
- **Nuclear generation and defueling**
- **Closure of remaining coal generation**

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[Energy supplier](#) to 6m business and residential customer accounts
- Energy supplier to 6m business and residential customer accounts
- Energy solutions to help customers decarbonise

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[HELPING BRITAIN ACHIEVE NET ZERO](#)
To achieve Net Zero, the UK needs to switch to low-carbon energy. The UK electricity system is predicted to double by 2050 as transport, heating and industry electrify.

We welcome the Government’s ambition for further investment in wind, nuclear and solar. Nuclear generation can valuably contribute to meeting Britain’s energy needs, producing low-carbon power round the clock and through periods of low wind and sun. It will also help reduce the UK’s dependence on volatile international gas markets.

**Nuclear**

The British Energy Security Strategy plans to deliver new and advanced nuclear power to help meet projected electricity demand.

We are supporting this ambition by investing in EPR® technology nuclear at Hinkley Point C in Somerset (3.2GW capacity) and a similar 3.2GW EPR project at Sizewell C in Suffolk. In 2022, the Government gave planning consent for Sizewell C and committed £700 million to support the project’s continued development.

Together Sizewell B, Sizewell C and Hinkley Point C could deliver reliable low-carbon power for more than 15 million homes.

We are working on extending the operational life of Sizewell B by at least 20 years, from 2035 to 2055, and we are supporting the wider UK new nuclear programme with skills and sites to explore new nuclear technologies.

We are committed to ensuring nuclear excellence, preserving and developing technical skills and capabilities, and sustaining safe, reliable and commercially viable operations.
Renewables, storage & flexibility
The British Energy Security Strategy includes faster development of offshore wind and considers contribution from onshore wind and solar. It also encourages all forms of flexibility with sufficient large-scale, long-duration electricity storage to balance the system.

Through EDF Renewables UK and Ireland, we have an operating portfolio of 1GW of battery, onshore and offshore wind, and are expanding our portfolio to almost 5GW of projects in planning and development, including wind, battery and solar. Major projects include the construction of the Neart na Gaoithe offshore wind farm in the Firth of Forth and the development of the Gwynt Glas floating offshore wind project in the Celtic Sea. We are also supporting the development of renewables by other generators by offering a range of renewable power purchase agreements (PPAs) to business and public sector customers.

We are enhancing the flexibility of the electricity system by developing Energy Superhubs through Pivot Power. Pivot Power combines large-scale batteries and high-volume power connections to enable rapid EV charging. Through EDF Energy Trading Service, in 2021, we optimised 325MW of batteries, some of them owned by Pivot Power, and signed long term contracts for more than 600MW.

Hydrogen
The British Energy Security Strategy increased the UK’s ambition for low-carbon hydrogen capacity, subject to affordability. Renewables and nuclear can produce low-carbon hydrogen and synthetic fuel, helping to decarbonise hard-to-treat sectors such as industry, heavy transport and aviation.

We are developing hydrogen production from renewable electricity. The pioneering project, Tees Green Hydrogen, will use electricity from nearby Teesside Offshore Wind Farm along with a new solar farm, to power its hydrogen electrolyser. We also entered a partnership with British Steel, to decarbonise their steel production in Teesside by replacing natural gas with hydrogen in the beam mill.

We are developing projects to improve the efficiency of hydrogen production with the use of nuclear heat. At Sizewell C, we have put forward proposals for a hydrogen hub, to provide clean fuel for freight, public transport and other uses.

Fossil generation
We are decommissioning the Cottam coal power station (closed in 2019), implementing sustainable decommissioning and deconstruction approaches such as circular economy principles. In August 2021, we completed the sale of the West Burton B 1,332MW CCGT alongside a 49MW battery on the same site.

Two of the four units at West Burton A, our last coal plant, entered decommissioning in 2021. A key element of a just and low-carbon transition is workforce support and we continue to work closely with our trade unions in this respect.

The Government plans to stop using coal for electricity generation from October 2024, but in the short-term, coal can help support Britain’s security of supply. Following a request from the Government in 2022, the remaining two units at West Burton A will remain open until 31 March 2023, to provide an emergency service to the National Grid ESO.

We have an operating portfolio of 1GW of battery and renewables and are expanding our portfolio to almost 5GW of projects in planning and development.

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9 See https://www.pivot-power.co.uk/who-we-are/
10 Combined cycle gas turbine
Heating
The Government’s *Heat and Building Strategy* (October 2021) sets out how the UK will decarbonise homes, commercial, industrial and public sector buildings, including a target of installing 600,000 heat pumps each year by 2028.

The Government provides grants to encourage property owners to install low-carbon heating systems such as heat pumps, through the *Boiler Upgrade Scheme*.

We are supporting this by advancing our heat pump offer, notably through the strategic investment and partnership with CB Heating. This will offer our customers end-to-end heat pump installation services through CB Heating’s Heat Pump Installer Network (HPIN).

Transport
The Government’s Transport Decarbonisation Plan sets out the commitments and actions needed to decarbonise the transport system, including no new diesel and petrol cars and vans from 2030 and all new cars and vans to be zero emission at the tailpipe from 2035.

To help accelerate the switch to EVs, we provide customers with everything they need to go electric:

- EV tariffs
- charge point installations
- a car leasing package

We continue to support the roll out of EV charging infrastructure and retain a majority stake in Pod Point through its 2021 floatation on the London stock exchange. The number of Pod Point charge points increased by 85% between 2020 and 2021 and passed the milestone of 175,000 points installed at end June 2022.
Helping our customers achieve Net Zero
We are one of the biggest UK energy suppliers with 3.7 million residential and business customers. All our home customers with fixed tariffs get zero carbon electricity as standard. We want to do as much as we can to be part of the solution to the affordability crisis and we have a long standing commitment to helping vulnerable and fuel-poor households.

We help households, businesses and public sector customers be more efficient and reduce their carbon footprint with smarter and innovative solutions. We do this by, amongst other things, supplying heat pumps, energy efficiency upgrades, smart meters, EV charging solutions, PPAs and solar panels.

We are one of the largest suppliers of electricity and gas to residential and business customers across the UK. We also offer a range of energy supply options to help business customers meet their differing requirements, including a nuclear backed option and a selection of renewable backed options, some of which link customers to specific technologies or locations. You can find more information here on the solutions we offer to help businesses and public sector organisations achieve Net Zero.

In 2021, we launched our Net Zero White Paper to help our business customers understand and plan their journeys to Net Zero. We keep our business customers informed through a programme of activities, including the discussion platform Talk Power, providing updates on the energy market, sharing knowledge on Net Zero and clarifying the options available to businesses.

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**GOAL...**

We support customers during the affordability crisis. We are engaging with the Government and the industry to help identify and promote ways to make energy affordable.

**PROGRESS...**

To address rising energy prices, the Government is providing significant support to help households and businesses. We are engaging with Ofgem and the Government to ensure that these measures are delivered in a fair and simple way to customers.

In August 2022 we contacted over 100,000 of our most vulnerable customers to outline additional support packages, including smart prepayment meters to help beat the price cap by up to £100, as well as our new Fresh Start campaign, designed to support those with existing debt.

We spent £5 million in financial support to customers in need in 2021 and we are doubling this support to £10 million in 2022 through the Customer Support Fund and Warm Home Discount.

On top of this, we have allocated £20 million on energy efficiency measures for fuel-poor households in 2022 through the ECO scheme. With our partner Income Max, we are helping to identify an additional £3.6 million of household support.

Following cessation of trading by Green Network Energy, Utility Point and Zog in 2021, we stepped in to take on their combined 590,000 residential customers through Ofgem’s supplier of last resort process.
Efficiency
Energy efficiency is key to achieving Net Zero at lower cost. Integrating digital technologies such as smart meters, and changing consumer behaviour is critical. We roll out smart meters to help customers understand their energy consumption and how to reduce their emissions. Our Energy Hub uses smart meter data to give customers free online access to their energy use and personalised tips to save energy and reduce their carbon footprint and bills by up to £100. From 2025, market-wide access to half-hourly smart meter data will enable a more flexible and resilient energy system by providing customers with flexible products and services.

Britain’s ageing housing stock is in urgent need of energy efficiency updates. A recent study of over 21 million homes (by EDF in partnership with property data platform Sprit), revealed that 58% of properties across England and Wales only meet insulation standards of 1976 or older and only a third of households have ever updated their insulation. We have teamed up with installers so customers can purchase loft and cavity wall insulation to reduce heat loss and save energy.

We are also delivering on our regulatory obligations on energy efficiency installations through the ECO scheme for fuel-poor customers and the roll-out of smart meters to homes and small businesses. We have led the delivery of ECO3 and were the first to have hit our overall target. We have commenced the delivery of our new energy efficiency obligation (ECO4) ahead of the market to support vulnerable households as quickly as possible and ensure their homes are winter ready.

In 2021, we installed 40,000 measures through the ECO scheme, and since October 2018 we have delivered close to £248 million in lifetime bill savings.

We’ve helped our customers throughout the pandemic and the ensuing wholesale gas price increases, giving reassurance that their energy is safe and offering extra help and advice on managing finances and saving energy at home. We’re finding new, engaging ways to educate and help our household customers change their behaviour and adopt ways to save money and live a low-carbon lifestyle, for example through the “How Green is your Birthday” campaign.

We have maintained our industry leading customer service with a ‘Great’ rating on Trustpilot and were ranked 1st out of 20 energy suppliers by Citizens Advice. To evolve our offering and build further on our industry-leading customer service, we have partnered with Kraken Technologies to migrate our residential and SME customers onto their EnTech platform. Starting in 2023, the platform will help us to meet our customers’ future energy requirements.
PROGRESS...

To align with EDF Group and emerging sector practice and methodology, we have launched a new ambition on emissions avoided through low-carbon solutions we offer to customers.

**Mobility**

We’re developing our EV offer to give our customers what they need to drive electric. We offer electric car leasing deals, charging points for homes and businesses, and zero carbon electricity tariffs for EVs. We are also engaging with the regulator to maximise the benefit from EVs to the energy system, including smart charging.

We are continuing to support the roll out of EV charging infrastructure. In 2021 Pod Point installed over 66,000 charge points, up 85% on 2020.

**Heating**

Through accredited installers and funding options we offer customers efficient, low-carbon air source heat pumps as an alternative to gas, oil and LPG, alongside other lower carbon heating and insulation offers. In 2022 we invested in and entered a strategic partnership with CB Heating to advance our heat pump offering for customers. This will also help upskill engineers across the country via the Heat Pump Installer Network (HPIN), which aims to train 500 installers by 2023.
Helping Britain’s Businesses and Public Sector achieve Net Zero

By continuously investing in and enabling access to zero carbon energy and technology, we are here to support your journey to Net Zero.

**We’re Britain’s biggest generator of Zero Carbon Electricity**
- Zero Carbon for Business
- Renewable for Business
- Select Renewable
- Corporate PPAs

**Simplify and enhance energy monitoring through EDF’s end-to-end Metering Solutions**
- Meter financing, installation and maintenance
- Half-hourly and AMR* metering
- Optimise metering strategy
- Tailored submetering
- Portfolio management and reporting

**Developing new Renewable Generation**
- Generate your own energy with solar PV
- Reduce costs and increase resilience
- Financing, installation, operation and maintenance

**Zero Carbon Supply**

**PPA Solutions**

**Metering and Data**

**Electric Vehicle Solutions**

**Solar PV Solutions**

**Carbon Offsettings**

**Market-leading solutions to support your transition to e-mobility**
- EV charging options to meet your business needs
- Consultation, feasibility, installation, maintenance and supply

**Access Carbon Offsettings to help meet your carbon strategy and obligations**
- Offset your carbon footprint
- A broad range of projects to meet your strategic priorities

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*Automatic Meter Reading

EDF Sustainable business update
HELPING OUR CUSTOMERS ACHIEVE NET ZERO

CASE STUDY

**Zero carbon energy for businesses and the public sector**

**Tesco**
We’ve developed with Tesco a multi-party Corporate Power Purchase Agreement (CPPA) structure that will support the development of 9 new renewable generation projects: 4 wind and 5 solar farms. The CPPA ensures strong authenticity of carbon credentials and is helping Tesco meet its targets of 100% renewable electricity by 2030 and net zero operations by 2035. With Tesco’s long-term commitment to purchase power at an agreed price from renewable generators, the deal has provided the financial security to support the construction of each site, as these projects are financed without public subsidies.

Through our partnership with solar PV specialists, we have enabled Tesco to realise a plan to generate solar power from the roofs of 14 of its stores, providing zero carbon power and reducing their electricity bills. The 15,000 installed solar panels generated over 4GWh of electricity in the first year of operation alone.

**JPMorgan Chase**
We collaborate with JPMorgan Chase, a financial holding company, to power their offices with 100% renewable electricity and reduce direct emissions from their operations. To ensure that the electricity consumed is matched in real-time with renewable generation, we monitor consumption and production using blockchain-based energy tracking technology from ClearTrace, a leading energy tracking software company. Matching will take place through source-specific access to our PPA portfolio. Such innovative agreements will enable organisations to take a real-time view of their energy sourcing and associated carbon footprint, and this one is thought to be a first for UK large business electricity supply.

**Scottish Fire and Rescue Service**
We supported the Scottish Fire and Rescue Service (SFRS) to tackle their two largest sources of emissions: the energy used to power their portfolio of buildings and their large fleet of emergency vehicles. We have been supplying the public sector organisation with renewable electricity since 2017. To further address the emissions associated with buildings, solar panels have been installed on select sites. The panels installed so far are expected to save around £90,000 per year and 150 tonnes of carbon. We’re also helping SFRS transition to electric vehicles and installing charging stations across numerous sites.
We made use of the innovation allowance in ECO3 to deliver a solution to installing non-combustible cavity wall insulation in tower blocks.

We worked with our partner to submit an application to Ofgem to approve a solution that involved technicians abseiling off tower blocks to install cavity wall insulation into individual flats.

Since obtaining approval by Ofgem in July 2020, we have funded the installation of cavity wall insulation in 1633 flats in 18 tower blocks in Newcastle.

This has resulted in the residents saving a combined notional £12 million in heating bills over the lifetime of the measures.\textsuperscript{14}

**Imtech’s contribution to Net Zero**

Imtech, jointly owned by EDF Energy and Dalkia\textsuperscript{15}, is one of the UK’s leading technical services businesses. It notably provides energy saving infrastructure solutions for clients and supports organisations in securing grant funding via the Public Sector Decarbonisation Scheme.

Imtech’s technical expertise helps organisations, including the NHS, to decarbonise their estates through energy performance solutions and achieve their Net Zero ambitions.

The measures include heat pump installation, low temperature distribution networks, insulation, solar panels, and digital solutions to drive energy efficiency and carbon reductions. Imtech for instance deployed 6MW of heat pump technology in 4 hospitals.

These initiatives are expected to save 300,000 tonnes of CO\textsubscript{2} for NHS Trusts in London and in the North of England – equivalent to the emissions of more than 70,000 cars driven for a year.

\textsuperscript{14} Subject to final Ofgem approval

\textsuperscript{15} Subsidiary of EDF Group
Zero carbon electricity generation
We are Britain’s biggest zero carbon electricity generator, operating, developing and constructing a fleet of wind, nuclear, solar and battery storage. Our aim is to accelerate the shift to an electricity system based on safe, reliable and efficient low-carbon nuclear, renewable energy and storage.

Together, Hinkley Point C and Sizewell C could provide zero carbon electricity to meet 14% of UK demand, powering around 12 million homes.

We are working on extending the operational life of the Sizewell B PWR power station (1.2GW) by at least 20 years, from 2035 to 2055. By 2028 Sizewell B will be the only operating nuclear power station from the existing fleet. We will make a final decision on the extension in 2024, which would be followed by the required capital investment in the plant, safety enhancements and obtaining necessary approvals.

We are responsible for defueling all seven Advanced Gas-cooled Reactor (AGR) power stations over the next 10+ years under an agreement with the UK Government signed in June 2021.

Our largest onshore wind farm in Europe is the 177MW Dorenell in Scotland, providing power for around 106,000 homes since 2019. We are building the 450MW Neart na Gaoithe offshore wind farm that will have the potential to supply around 375,000 Scottish homes from 2024. Through a joint venture with DP Energy, we are developing Gwynt Glas floating offshore wind farm that is expected to generate up to 1GW of zero carbon energy in the Celtic Sea.

We had two successful project bids into the Contract for Difference auction in July 2022: the 200MW Stornoway and the 100MW Stranoch wind farms.

EDF Renewables is constructing its first major solar project in the UK. The 49.9MW Sutton Bridge Solar Farm will generate renewable electricity to more than 9,800 households from late 2022 onwards.

Our largest onshore wind farm in Europe is the 177MW Dorenell in Scotland, providing power for around 106,000 homes since 2019. We are building the 450MW Neart na Gaoithe offshore wind farm that will have the potential to supply around 375,000 Scottish homes from 2024. Through a joint venture with DP Energy, we are developing Gwynt Glas floating offshore wind farm that is expected to generate up to 1GW of zero carbon energy in the Celtic Sea.

GOAL...
In support of the British Energy Security Strategy, our goal is to develop over 15GW of zero carbon electricity by 2035.

PROGRESS...
Nuclear
Since taking on the UK nuclear fleet in 2009, EDF has invested £6 billion and generated >30% more low-carbon electricity than originally expected. By 2035, we plan to enable investment in 15GW of wind, nuclear and solar generation. This is around 20% of the current energy needs in the UK.

Renewables
Through EDF Renewables UK and Ireland, we have an operating portfolio of 38 renewable energy sites including battery, onshore and offshore wind (together totalling 1GW). We have an expanding portfolio with almost 5GW of projects in planning and development, including wind, battery and solar.

Other low-carbon technologies
The scale and baseload nature of nuclear gives it the potential to transform the development of hydrogen as a fuel. Low-carbon heat from nuclear stations can also be used power Direct Air Capture (DAC) to remove CO₂ from the atmosphere. (see case study).
Lifecycle carbon analysis (LCA) of nuclear plants

Nuclear has zero direct combustion emissions, but to understand the entire lifecycle of our stations from construction, operations and fuel production through to decommissioning, we commissioned environmental specialists Ricardo, and verification consultants WSP, to perform LCAs.

The LCA study considered our nuclear projects: Sizewell C and Hinkley Point C, and our existing nuclear plants at Sizewell B and Torness. This helps us to understand the carbon impact of our nuclear generation plants to inform our approach to reducing emissions and quantify our requirements to get to Net Zero.

Results show that the lifecycle emissions of these nuclear plants are much lower than for gas and low even compared to other low-carbon technologies.

<table>
<thead>
<tr>
<th>Source: IPCC global median values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Direct combustion emissions at point of generation (gCO2e/kWh)</td>
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</table>

<table>
<thead>
<tr>
<th>Technology</th>
<th>Hinkley Point C</th>
<th>Sizewell C</th>
<th>Sizewell B</th>
<th>Torness</th>
</tr>
</thead>
<tbody>
<tr>
<td>Construction</td>
<td>0.6</td>
<td>0.6</td>
<td>1.9</td>
<td>0.3</td>
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<tr>
<td>Operation</td>
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<td>5.5</td>
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<td>1.9</td>
<td>1.9</td>
<td>3.5</td>
<td>4.6</td>
</tr>
<tr>
<td>Decommissioning</td>
<td>1.0</td>
<td>1.0</td>
<td>2.2</td>
<td>2.7</td>
</tr>
</tbody>
</table>

Results show that the lifecycle emissions of these nuclear plants are much lower than for gas and low even compared to other low-carbon technologies.
Innovation and nuclear

We are leading a consortium of academic and industrial partners to explore ways of using low-carbon heat from Sizewell C to power a Direct Air Capture (DAC) system to remove carbon dioxide (CO2) from the atmosphere. In July 2022, the consortium was awarded £3 million funding by the Government to develop plans for DAC. CO2 can be stored or recycled into synthetic fuel for use by industries that are difficult to decarbonise – like agriculture and aviation.

The system could capture up to 1.5 million tonnes of CO2 a year, enough to offset most of the annual emissions of the UK’s rail network.

If commercially viable, we will explore the potential to scale this technology across further UK projects.

As the Hartlepool nuclear power station approaches end of generation, the UK looks to new nuclear technologies to decarbonise industry. Teesside, where the station is located, is home to one of the UK’s largest industrial clusters of chemical and steel works. To support the decarbonisation potential at this unique location, we have been awarded a contract to produce Pre-Feed studies for the potential development of advanced modular high-temperature gas reactors at Hartlepool that could generate both electricity and heat for various uses such as industrial processes or hydrogen production.
Developing battery storage technology in Energy Superhubs
We are investing in battery storage as an enabler of a cleaner, sustainable and flexible low-carbon electricity system. Large-scale batteries facilitate the integration of variable renewable sources by storing energy and balancing demand with supply.

In July 2022, Pivot Power activated a cutting-edge hybrid battery near Oxford. It combines a 50MW/50MWh lithium-ion battery with a 2MW/5MWh vanadium flow battery. The battery provides flexibility to the grid by storing renewable energy at times of high supply and discharging electricity when the sun doesn’t shine or the wind doesn’t blow.

The aim is to demonstrate how the different technologies can be combined for maximum benefit to provide services to the grid and accelerate net zero.

Earlier in 2022, Pivot Power won planning approval for two new grid-scale 50MW/100MWh battery storage facilities in Luton and in Cornwall. Construction is expected to begin in 2023 and 2024, respectively.

Innovating on long-duration storage
We have received £2 million in funding from BEIS Net Zero Innovation Portfolio to develop four innovative methods of long-duration storage:

1. The first project will store electricity as hydrogen in a chemical form using depleted uranium hydride (UH3). The project will see EDF R&D lead a consortium combining expertise in engineering and materials from the University of Bristol.

2. Our R&D team will support the delivery of a demonstration project to establish the feasibility of developing storage-enabled solar power resources.

3. Pivot Power will work alongside e-Zinc, with support from Frontier Economics, to ‘metalize energy’, deploying technology that stores energy in zinc, an inexpensive and widely available metal that has a high energy density.

4. EDF Thermal Generation and R&D will partner with io consulting and Hydrostor to explore how electricity, converted into compressed air, can be stored in our existing gas storage facilities.
Responsible business
We’re transforming our business in a way that is safe, fair for people and positive for the environment, society and the economy. In-line with the UN Sustainable Development Goals for the electric utilities sector, we have four key aims:

▶ We believe all harm is preventable and so we strive for Zero Harm. Every job will be done safely, no matter how important or urgent it is.
▶ We minimise the environmental impact of our operations to ensure a cleaner, healthier and more resilient environment that benefits society and the economy.
▶ We aim to provide a great place to work, by enhancing equality, diversity and inclusion for our colleagues and supply chain.
▶ We are making a strong socio-economic contribution, supporting customers, local economies and communities, and the STEM skills of tomorrow’s energy innovators.

PROTECTING THE PLANET

GOAL...
We will be Net Zero by 2050 and have a fully electric light-vehicle fleet by 2030.
By 2030, EDF Group aims to reduce its direct and indirect emissions associated with the electricity sold by 50% (versus 2017) and reduce its scope 3 emissions by 28% (versus 2019).

PROGRESS...
Our scope 1 emissions decreased by 41% between 2020 and 2021. We are working with our supply chain partners and customers to reduce indirect emissions (scope 3) and achieve Net Zero by 2050 across our operations, the supply chain and our customers.
EDF Group is part of the EV100 initiative and committed to converting its entire global fleet to electric vehicles by 2030. We are progressing our plans to contribute to this with the EDF Energy UK fleet; 10.7% of the light-vehicle fleet is electric.
80% of the Hinkley Point C construction site now has access to mains electricity, or is connected to the grid, reducing emissions and improving air quality. Over 100 diesel generators were removed from the site in 2021 and more than 50% of lighting towers across site are now solar or hybrid powered.
PROTECTING THE PLANET

GOAL...
We implement biodiversity action plans at 100% of our nuclear generation sites.

PROGRESS...
Biodiversity action plans are in place at 100% of our nuclear generation sites.

Current plans for the Sizewell C project include a net gain in biodiversity of 19% over the long-term.

A GREAT PLACE TO WORK

GOAL...
50% of senior leaders will have diverse characteristics (gender, ethnicity, sexual orientation and disability) by 2030.

We aim to maintain >80% pride score in our annual employee survey.

PROGRESS...
In 2021, 20% of our senior leaders had diverse characteristics. 50% of new starters and 53% of people on our mentoring program have one or more diverse characteristics.

62% of our group talent pipeline are female.

Employee pride: 83% / Diversity and Inclusion index: 81%

POSITIVE SOCIAL CONTRIBUTION

GOAL...
We will be a leader in nuclear skills development with at least 57% of our Hinkley Point C project contracts awarded to UK-based companies and 1,000 apprentices trained.

We aim to create 25,000 job opportunities directly during the construction of Hinkley Point C.

PROGRESS...
£18 billion of projected economic value to the UK from our Hinkley Point C project with 3,800 British businesses involved and 15,000 new jobs created to date.

More than 980 apprentices trained to support Hinkley Point C project to date (Hinkley Point C and contractors).

64% of the value of Hinkley Point C’s contracts will go to UK-based companies.

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17 Employees who show both positive performance over time and a strong potential to grow further towards higher responsibilities as senior business leaders
18 Employee pride and Diversity and Inclusion index are based on MyEDF employee engagement survey
We follow the corporate governance practices of EDF SA Group, with its compliance obligations under the French Afep-MEDEF Code. The Group has multiple overarching internal policies that are tested on an annual basis.

Our Chief Executive Officer is the UK member of the EDF Group Executive Committee. Our Director of Strategy & Corporate Affairs is the UK Executive Team representative for the EDF Group CSR Strategic Committee, which provides strategic management and coordination of all Corporate Social Responsibility (CSR) issues.

The overriding objective of our Board of Directors is to provide a management framework within which we can operate to the highest ethical and health and safety standards in order to preserve and enhance our investments.

The Board utilises standing sub-committees to consider particular matters in detail. For example, the EDF UK Company Health and Safety Committee is responsible for demonstrating a strong and active health and safety leadership from the top of the organisation and achieving our Zero Harm ambition. For more information on our corporate governance and policies please visit https://www.edfenergy.com/about/governance.

Health and Safety
We believe all harm is preventable and so we strive for Zero Harm. This ambition means making sure our workplaces are safe and healthy for everyone: our employees and anyone working on our behalf.

Zero Harm is part of our culture and the way we operate. We launched the ambition in 2007, recognising that safety needs to be a ‘non-negotiable, enduring priority’ and that everyone deserves to go home from work unharmed.

We take a rigorous approach to risk assessing our arrangements against the EDF Group BEST Framework (Building Excellence in Safety Together), to ensure we align with best practices and we learn from our peers. Maintaining a strong safety track record of our fleet, and instilling public confidence in nuclear is also a key way to help solve the climate crisis.
We maintain a strong safety track record across our UK fleet, we install smart meters safely, and we build new nuclear safely.

In comparison with recent major construction projects in the UK, Hinkley Point C is leading on construction health and safety performance and works towards achieving best practice. Each project milestone is designed to uphold standards, achieve Zero Harm and continue learning and improving. The lessons we learn from Hinkley Point C will help with the Sizewell C project.

Health and well-being is vital for our company, so we have expanded our ‘Zero Harm to people’ safety culture, to support mental health and well-being. Our “Alongside You” programme seeks to share support, provide resources on physical and mental health, and promote a culture where we all look out for each other in an inclusive manner.

Throughout the pandemic, prevention of the spread of the disease and the protection of our colleagues and contractors has remained of paramount importance. In 2022, the ongoing impact of the cost of living crisis and the mental health and well-being of our colleagues, for example those in customer facing roles, is also identified as a key priority for the company.

Net Zero
EDF Group has joined the “Business Ambition for 1.5 degrees” initiative and made commitments to achieve carbon neutrality by 2050, both in direct and indirect emissions (scopes 1, 2 and 3), with milestones set for 2030. By 2030, EDF Group aims to reduce its direct and indirect emissions by 50% compared to the 2017 level of emissions and to reduce its scope 3 emissions by 28% compared to the 2019 level. The SBTi organisation certified this approach in 2020 as going beyond the 2°C set out in the Paris Agreement.

We are committed to delivering the goals as part of EDF Group and have reiterated our commitment with the adoption of Helping Britain Achieve Net Zero (HBANZ) as our purpose.
PROTECTING THE PLANET

As we transition to a decarbonised future, we need to tackle our own environmental impact and leave nature in a better state than before.

As a large organisation with multiple sites, many of which sit on Britain’s coastline, we have a duty of care to protect and nurture the environment around us and to use resources wisely.

Our Environment Policy sets out how we minimise the environmental impact of our operations to ensure a cleaner, healthier and more resilient environment that benefits society and our economy. We seek to reduce our carbon emissions, waste, water use and negative impacts we have on biodiversity, whilst complying with all relevant environmental legislations, permits and other requirements. All employees and contract partners working with EDF share a responsibility for zero harm to themselves and the environment, and strive to deliver continuous improvement.

**Net Zero operations**

We’ve changed our ways of working to minimise our operational greenhouse gas emissions from our buildings, fleet, and business travel. Measures include installation of LED lighting across sites, replacement of diesel use with electric lighting, optimising cooling water pump usage, and improved monitoring of energy consumption across sites. We have also carried out lifecycle carbon analysis for some of our nuclear power stations, to determine where and how we can reduce our impacts (see page 24 for more info).

We are converting our business-need cars and vans to electric. At the end of 2021, more than 10% of our light-vehicle fleet was electric and we had installed 169 Pod Point chargers at 13 of our sites.

One of the most effective ways of reducing environmental impacts and supporting energy security is by extending the life of assets. We’re looking into the viability of extending the life of Sizewell B by 20 years (to 2055). We are committed to converting 100% of the fleet to EVs by 2030.

**Key facts:**

- More than 99% of the water we use for cooling processes is drawn from the sea or estuaries, where there is no risk of water shortage
- 100% of our generation sites certified to ISO 14001
- At Hinkley Point C:
  - 102 solar and hybrid tower lights on the project
  - Steel reinforcement made from 98% recycled steel
  - 100,00 lorry loads expected to be taken off local roads and replaced with sea transportation
PROTECTING THE PLANET

Minimising the impact of construction
Sustainable transport and sustainable use of materials (including water) is particularly important during the construction of new power stations.

By considering these issues early during planning, and applying circular economy principles to construction at Hinkley Point C, we are removing more than 100,000 lorry loads from local roads over the lifetime of the project using marine transport and the steel reinforcement contains 98% recycled materials.

We also capture circular economy opportunities during decommissioning, with £1.6 million saved by redeploying equipment from our Cottam site.

At Hinkley Point C, 80% of the construction site now has access to mains electricity or is connected to the grid, reducing emissions and improving air quality. Over 100 diesel generators were removed from the site in 2021 and more than 50% of lighting towers across site are now solar or hybrid powered.

We will take lessons from the construction of Hinkley Point C and apply industry best practice to minimise the impacts of future projects.

At Sizewell C we are exploring the use of hydrogen to power buses and plant equipment to reduce the use of diesel during construction. The hydrogen needed for the construction could be powered by an electrolyser that produces hydrogen using electricity from neighbouring Sizewell B nuclear plant or renewables in the area.

Biodiversity
We protect and enhance the land around our sites with biodiversity action plans in place at all our generation sites.

Hinkley Point C is committed to leaving local nature in a better state than before. The project has more than 50 environmental specialists and has donated more than £540k to environmental projects.

We have a Biodiversity Standard setting a framework of actions for EDF UK. We are reviewing this as part of EDF Group’s new commitment to Act4Nature.

Current plans for the Sizewell C project include a net gain in biodiversity of 19% over the long-term.

Climate adaptation
We assess climate related risks as part of the requirements to safely operate a nuclear station, as part of periodic safety reviews (PSR). We also carry out Climate Change Resilience Assessments as part of the planning and development consent for our new nuclear builds.

We are further developing our plans to ensure the resilience of our assets under a changing climate, and delivering on EDF Group target to deploy adaptation plans at all concerned entities.

Our carbon footprint
In 2021, EDF’s UK emissions increased by 18% to 14.9 million tonnes CO2eq.

Our scope 1 emissions from generation decreased 41% due to decreases in generation at West Burton A (coal) and West Burton B (gas). Our scope 3 emissions increased, mainly due to the growth in our number of gas customer accounts, primarily from Ofgem’s supplier of last resort processes, in the context of overall increased UK domestic gas demand. There was also an increase in scope 3 emissions related to new route-to-market services for other generators and from Hinkley Point C as construction progressed.

EDF UK Greenhouse gas emissions

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**EDF Sustainable business update**
At Hinkley Point C, around 50 environmental specialists are enhancing local biodiversity and habitats, helping nature to thrive on land previously used for agriculture. This includes the creation of a newly restored area on the site’s southern boundary and support for a local wetland reserve. The space has been designed and landscaped to attract wildlife by creating bird boxes, a badger barn and habitats for breeding water voles, and by planting native shrubs and trees. Hinkley Point C has also been monitoring birds at the river and the coast close to the site and supports the restoration of the salt marsh habitat.

The Sizewell C project expects to achieve a 19% net gain in biodiversity in the long-term. We have already started this habitat creation. New habitats were created specifically for foraging marsh harriers. An independent Environmental Trust promoting wildlife and the environment will be established in Suffolk and £78 million will be invested through this trust.

At EDF Renewables UK, we recently launched a new research programme that looks at increasing the benefits large-scale solar farms can have on biodiversity, soil health and carbon, wildlife habitats and farmland management in the UK. The research programme will focus on the proposed Longfield Solar Farm and develop biodiversity improvement plans for habitat restoration and management. We will be testing the biodiversity improvements of a range of measures, such as planting hedgerows, creating wildflower meadows, and installing beehives. We have invited academic partners to submit proposals and expect to roll out the programme by next year.

Over 55,000 trees and shrubs have been planted on the Sizewell estate over the last decade, transforming previously arable land into rich new habitats for wildlife.
Radioactive waste

We carefully and safely manage radioactive waste produced by our nuclear plants. There are 3 categories of radioactive waste:

 › **Low-level waste** counts for around 94% of the volume of the UK’s radioactive waste but for only 1% the total radioactivity. It is mostly made up of paper, wood and machinery components. Using the waste hierarchy, we recycle or use high-temperature incinerators, so low-level waste sent for disposal is minimised. Any remaining waste is compacted, sealed into containers, encased in cement, and stored at a low-level waste repository in Cumbria. As the radioactivity of low-level waste is relatively short-lived, it does not require very long-term storage solutions.

 › **Intermediate-level waste** counts for around 6% of UK’s radioactive waste volume. It comes mostly from the fuel reprocessing and reactor components, much of which will be removed during decommissioning. It requires special shielding and handling. It is stored securely within the power stations, ready for the Government’s planned long-term geological disposal facility in England and Wales or other disposal routes in Scotland after a period of decay storage.

 › **High-level waste** counts for around less than 0.1% of UK’s radioactive waste volume, and is about 95% of the total radioactivity. It is safely treated or stored ready for the planned geological disposal facility for wastes in England and Wales. For Scotland, high-level waste is to be packaged and stored ahead of development of a near surface repository.


Hunterston B nuclear station stopped generating electricity in January 2022 and has started defueling, which consists of removing all the used nuclear fuel. Low-level waste will be managed using existing disposal routes, as in place for wastes produced during generation. Some intermediate-level wastes requiring long-term storage will be processed, packaged and stored in the Magnox waste stores at Hunterston A, pending the availability of the near surface disposal facility in Scotland. Other intermediate-level waste will continue to be stored in engineered storage vaults, as it was during the operational period. These vaults are within the reactor safestore structure, and the waste will remain safely stored until final site clearance activities up to 80 years after end of generation.

Spent fuel, which is high-level waste, is removed from the Hunterston B site during and after operations and transported to Sellafield where it is stored safely in the centralised UK depositary awaiting the Government’s development of a final geological disposal facility.
Climate change adaptation

For British nuclear power stations, ensuring resilience to climate change is a part of standard, legally required management of potential vulnerabilities to extreme weather. Ability to safely operate and close down the stations under a wide range of potential current or future circumstances is a key principle already in the design of the stations, and periodic safety reviews of operating stations ensure risk assessments and management plans continue to reflect the evolving understanding of the potential impacts of climate change.

For Hinkley Point C, and Sizewell C, we carried out site specific Climate Change Resilience and In-Combination Climate Change Impact assessments as part of the Development Consent Order process, informed by national UK Climate Projections. These assessments identify the potential consequences of climate change and appropriate mitigation or adaptation measures.

The design life of the wall will be around 100 years to allow for both power station operation and subsequent decommissioning.

Such measures include a sea wall we have constructed east and west of Hinkley Point C to protect the coastline from erosion and coastal flooding. The construction of this 13.5 metre high concrete structure – reflecting combined risks of changes in peak tidal range, storm surge and wave action – will allow for a later increase in height if flood risk grows due to climate change in the future. The design life of the sea wall at Hinkley Point C is around 100 years to allow for both power station operation and subsequent decommissioning. A coastal flood defence of 10.2 metres in height will be built at Sizewell C. If required later, its adaptive design will enable to raise the height to 14.2 metres. The difference in the design requirements and height are due to site-specific marine conditions, such as the larger tidal range in the Bristol Channel near Hinkley Point C, compared to the North Sea coast near Sizewell.
As we transition our business towards a low-carbon economy, we maintain the highest standards of human rights, labour standards, ethical conduct, and occupational health and safety for all our workers, including our supply chain, offshore and outsourced partners. We engage, inform and consult with our people to give them a voice and make sure their interests are factored into our decision-making. Employees who possess a diverse range of talents and perspectives and feel engaged in their roles are fundamental to our long-term success. Hence equity, diversity, inclusion and belonging are key to our people agenda, enabling people from all backgrounds to feel safe and welcome to be their true selves at work.

**Equity, diversity, inclusion and belonging**

We have set ambitious targets to ensure diversity and inclusion across our workforce. By 2030

<table>
<thead>
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<th>Category</th>
<th>Target</th>
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<tbody>
<tr>
<td>Women at senior leadership level</td>
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<td>Ethnic minority employees</td>
<td>8%</td>
</tr>
<tr>
<td>Senior leaders with diverse characteristics</td>
<td>50%</td>
</tr>
</tbody>
</table>

We are showing progress across all indicators. In 2021, we started monitoring the diversity of our leadership in terms of Gender, Ethnicity, Sexual Orientation and Disability. We are looking for 50% of our senior leaders to have one or more of these diverse characteristics by 2030 (20% 2021). In 2021, around 50% of our new starters had one or more of these diverse characteristics. We ensure that diverse candidates come through to interview and have diverse interview panels.

**Diverse representation key performance indicators**

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<td>35%</td>
<td>30%</td>
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<tr>
<td>Female employees</td>
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<td>Senior leaders with diverse characteristics</td>
<td>50%</td>
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**LOOKING BACK**

In 2020 we launched “Everyone’s Welcome” — our vision for being a positive and inclusive place to work. Following engagement with employee networks, led by our RACE and LGBTQ+ networks in particular, we issued a Standards of Behaviour statement in 2021 outlining the expectation that all employees have access to a respectful working environment, and that behaviour not in-line with our vision will not be tolerated. We also launched “Alongside You” — a support hub for Mental Health and Well-being to bring together all of our resources to support our people through the pandemic. As a result, our employee engagement survey results for our minority diversity demographic groups have improved.

**Key facts:**

- > 80% of our employees are proud about working for EDF
- 20% of our senior leaders had diverse characteristics in 2021
- > 30% of female employees, and > 18% of senior leadership positions occupied by women
To advance gender diversity within our own organisation and the energy sector, we benchmark ourselves and are certified level 4 to the Gender Equality European & International Standard ‘GEEIS and GEEIS-DIVERSITY’. Our CEO is a member of the Energy Leaders Coalition and we are members of Powerful Women, signatories to the Women in Nuclear (WiN) charter and the TechSheCan pledge to support us in the actions we take to reach our ambitions.

We are proud signatories to BiTC’s Race at Work Charter to ensure that ethnic minority employees are represented at all levels in our organisation.

We are Stonewall Diversity Champions and signatories to the Trans Rights are Human Rights campaign to raise awareness of LGBTQ+ issues and support and advance the careers of LGBTQ+ people in our businesses.

We also focus on accessibility. As a result of our response during the pandemic, we’ve seen a big improvement in feelings of inclusion from our disabled employees and those who identify as vulnerable people, working parents and those who care for others.

As part of EDF Energy’s Valuable 500 Commitment we have made our digital platforms more accessible for disabled customers, employees and those who work with us. We’ve brought in meeting web accessibility guidelines for our customers and introduced a dyslexic-friendly font for all our digital communications. We’ve recently recertified as a Disability Confident level 2 employer and we use tools such as MS Teams / Office and showcase how to use all the accessibility features. We work closely with our employee networks whenever we redesign our physical spaces to ensure they meet the needs of our people.

LOOKING FORWARD

We will continually review and partner with relevant equity, diversity & inclusion campaigns and organisations to help us achieve an inclusive, safe place for our people to work and grow, with a particular focus on career development for our ethnic minority, LGBTQ+ and disabled colleagues.

Employee engagement

We engage with employees and trade union partners to ensure we involve our people on decisions and actions. For example, we work closely on large change programmes, such as the pensions reform and transformation plans in our Customer and Generation businesses. We consider our new Defined Contribution scheme, myRetirement, to be a best-in-class scheme19, allowing our people to have greater pension continuity and security as they move into other job roles in other business units in the UK.

Learning from the pandemic, we have committed to flexible and blended ways of working and turning our offices into more relaxed, collaboration spaces.

We raise awareness among employees on Net Zero through a range of activities, notably around COP26 in 2021, with a Net Zero quiz, a Net Zero week and the recruitment of Net Zero Heroes, consisting of engaged employee advocates who promote and share content on Net Zero.

People development

We’re giving employees the opportunity to develop the skills they’ll need to prosper in a Net Zero economy, for instance by giving access to training on our MyLearning Hub and LinkedIn Learning. We also provide training to upskill our people to secure future jobs, such as our EV charge point training programme (see ‘Just Transition’ case study) and the Heat Pump Installers Network Academy to upskill engineers.

We are leading the National College for Nuclear (NCFN), which provides practical learning designed to fulfil the nuclear sector’s needs. The NCFN recently expanded its strategy to work with renewable and low-carbon sectors to identify and develop skills and support the workforce. We are providing knowledge and manpower to facilitate the implementation of this new strategy.

Modern slavery

We recognise that modern slavery is a growing global concern, and we are working to ensure that our own operations, and those of our supply chain, are appropriately evaluating the risks of modern slavery. Since 2016, we have maintained a Living Wage employer accreditation by the Living Wage Foundation. This accreditation includes the employees of our suppliers who work on our sites.

19 When benchmarked against our competitors’ Defined Contribution pension offerings.

EDF Sustainable business update
In 2020, we entered into a four-year partnership with Prostate Cancer UK (PCUK) focusing on fundraising and helping to support men and their families across the UK now, and for future generations.

We set ourselves the ambitious goal of raising £100,000 per year of the partnership, with a total of £400,000 over the four years. The money raised will help fund research, healthcare improvements, quality support services and engagement for changes in policymaking.

In June 2022, Team EDF completed the charity’s biggest cycling event of the year by cycling from London to Amsterdam and raising over £12,000.

The partnership is also a chance for all employees to learn about the risks of prostate cancer, to collaborate and share knowledge to support the delivery of the charity’s strategy and to engage in fun activities to raise money.

Our employees also benefitted from PCUK support when specialist nurses trained up our Mental Health First Aiders on offering emotional support, including worries about diagnosis, treatment and return to work.

Our senior leaders are leading by example by having vital life-saving conversations and inviting PCUK volunteers to join their team meetings to share their personal stories and inspire more people to speak to their GP if they’re concerned.

We have already exceeded our four-year fundraising target of £400,000, but employees haven’t stopped there.
We are making a positive social contribution by supporting local and regional communities and economies, looking after our customers, employees, supply chain, and developing skills to support the Net Zero transition.

We are investing in tomorrow’s energy innovators through education and training opportunities, to develop the STEM skills we’ll need to power a Net Zero economy.

And we’re responsibly engaging government and policymakers, both directly and through membership of trade associations, to ensure a Just Transition to a fairer Net Zero energy system.

We support local communities through various funds surrounding sites to invest in local initiatives or people, including the Blyth Offshore Demonstrator Wind Farm Community Benefit Fund, Teesside Offshore Wind Farm Community Benefit Fund and the Hinkley Point C Community Fund.

We monitor and seek to stimulate the diversity of our supply chain. We partner with Minority Supplier Development UK (MSDUK) to break through inequalities and barriers in supply chains, and WeConnect to empower women-owned businesses in supply chains.

Key facts:

- 11,141 employees at EDF in the UK in 2021 (11,717 2020)
- We’ve spent more than £5 billion in organisations across the UK in 2021 and more than £1 billion (22%) with SMEs organisations
- Over £100 million spent with 312 diverse owned suppliers in 2021, which account for over 8% of the total suppliers’ base
- Hinkley Point C has committed £20 million of community funding to improve the well-being of communities affected by the construction
- Around 22,000 jobs across the UK and 3,800 British companies supported the construction of Hinkley Point C in 2021. 71,000 jobs will be supported by the end of the construction

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20 Small and medium enterprises
21 *Diverse Owned suppliers* are those identified as being +51% owned by person(s) recognised under the following categories: Race, Gender, Sexuality, and Disability
Social role of nuclear new build

Our new nuclear projects, Hinkley Point C in construction and Sizewell C in planning, not only support the transition to Net Zero, they can deliver huge social and economic benefits, and create jobs and training opportunities in the communities that host the projects.

Hinkley Point C has presented, and continues to offer opportunities for British businesses across every region, from reinforced steel suppliers in South Wales, to advanced engineering firms in the North of England. At the end of 2021, around 22,000 jobs across the UK and 3,800 British companies supported its construction. Around £1.2 billion has been spent with companies in the North of England so far. We expect that 71,000 jobs will have been supported by the end of the construction.

We set out to create 1,000 apprenticeships during the construction phase. The project's apprentice numbers are rising, with more than 980 trained so far, and courses ranging from engineering and construction management, to HR and catering.

We have delivered £123 million to support the community through various projects, such as a free bus service to link rural communities, or on-site healthcare provision that reduces pressure on local NHS services. We are delivering £20 million of community funding to improve the social, economic and environmental well-being of communities affected by the construction. Over £13 million has been awarded to local projects to date.
Social role of nuclear new build

Our progress at Hinkley Point C gives us confidence to develop the replica, Sizewell C, and deliver benefits for skills, jobs, the supply chain and local communities. Sizewell C will create thousands of well-paid local jobs and opportunities for businesses across East Suffolk. The project will support an estimated 70,000 jobs during construction and rely on over 3,000 UK-based suppliers. Around £1.5 billion will be spent in Suffolk during construction.

Sizewell C will train 1,500 apprentices, providing training and skills to strengthen the workforce. Apprentices will be trained in construction and mechanical roles, including engineering, welding, project management, and steel-fixing. The project is working closely with Further Education providers in Suffolk to ensure the skills are in place for local people to work on the project. In addition to the direct economic benefits, Sizewell C has agreed to a package of local funding worth over £250 million.

Through the provision of a Community Fund, Sizewell C commits to enhance the economic, social and environmental well-being of local communities. Other initiatives include a Tourism Fund to support the Suffolk coast tourism sector to offset the impacts from construction, and a healthcare contribution and a Public Services Contingency fund to provide onsite occupational health service for workers.

The project is backing Net Zero Leiston, an ambitious project to reach Net Zero carbon emissions in the coastal town of Leiston located near Sizewell. Local councils, community groups, Sizewell C and industry experts are working together to explore and showcase various technologies and materials as pilot projects. Great progress has been made already, notably through the publication of a replicable route map from current emissions to Net Zero, public and private investment for insulation measures for vulnerable households, and support to community initiatives, such as work with the local secondary school.
Just Transition

We apply the principles of a Just Transition, which aims to reach Net Zero in the fairest way possible for everyone by providing decent work, supporting education and employability, retaining skills and developing new ones to support the energy transition.

For example, we are building the workforce needed to install Britain’s EV charge points. The Government’s announcement of a transition to EVs has led to significant demand for safe, competent and authorised charge point installers. In response, we have initiated a programme to upskill our smart meter installers to EV charge point installers. We have explored accelerated routes with various training schemes and agreed a way forward with a qualification for electrical installers, called “Level 3 Certificate Installing, Testing and Ensuring compliance of Electrical Installations in Dwellings” in-house as an accredited training centre. We expect 11 installers and 2 quality auditors to complete their training by the end of 2022, in addition to 14 installers with historic qualifications who are already installing EV charge points for Pod Point.

More information on the Just Transition strategy and commitment and strategy of EDF Group can be found here.

As we transform the nuclear generation business to deliver operations, defueling and decommissioning, we must retain and adapt skills and maintain a motivated workforce.

We have secured an AGR Defueling Agreement (signed in May 2021) with our trade union partners on the Nuclear Generation National Joint Council. This agreement sets out our People Strategy, which aims to maintain organisational capability and take into account employees’ aspirations and opportunities for reskilling, training and enabling relocation to other assets and areas of the organisation. It promotes collaboration opportunities with key partners, including our supply chain, Hinkley Point C, Sizewell C and Magnox.
Supply chain collaboration

We collaborate with our supply chain partners to increase our social value contribution when purchasing products and to support customers with vulnerable circumstances.

We are integrating sustainability into the supply chain by assessing how prospective suppliers bring social value to the community and implement environmental and social policies. When our office stationary and bespoke printing contract came up for tender, we decided to award it to Commercial Ltd, a sustainability-minded supplier. Commercial has a “Products With Purpose” range, which hold environmental, ethical or social credentials.

Commercial runs a foundation, which works with local disadvantaged youth. As a result, any spend on bespoke print will generate even more social value as these young people receive valuable skills and training. We spent almost £89k with Commercial and generated over £164k in social value using their social value calculator.

We have been awarded Energy UK’s Vulnerability Commitment Gold Star Rating in 2021. This has been possible thanks to collaboration with service providers, such as Zoonou Ltd and SignVideo to improve the accessibility of our website and communication with customers.

Since 2019, we have collaborated with Zoonou, who provide audits and testing to assess the accessibility of our websites and used assistive technologies, such as speech recognition and screen readers, to identify improvements. Zoonou also provided workshops and training for our team to encourage the incorporation of accessibility into their work. Thanks to Zoonou’s support over the last 3 years, accessibility is now embedded within our digital design culture and is at the forefront of everything we do. We also partnered with SignVideo, which gives customers with a hearing impairment instant access to British Sign Language interpreting through video conferencing or voice-over relay.
### Sustainable business datasheet

#### Net Zero GHG footprint by 2050

<table>
<thead>
<tr>
<th>Metric</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scope 1 GHG emissions (MtCO2e)</td>
<td>4.5</td>
<td>2.8</td>
<td>1.7</td>
</tr>
<tr>
<td>Scope 2 GHG emissions (MtCO2e)</td>
<td>0.003</td>
<td>0.002</td>
<td>0.003</td>
</tr>
<tr>
<td>Scope 3 GHG emissions (MtCO2e)</td>
<td>9.8</td>
<td>9.9</td>
<td>13.3</td>
</tr>
<tr>
<td><strong>Total GHG emissions (MtCO2e)</strong></td>
<td><strong>14.3</strong></td>
<td><strong>12.7</strong></td>
<td><strong>14.9</strong></td>
</tr>
</tbody>
</table>

Carbon intensity at the point of generation: combustion emissions from the production of electricity (gCO2e/kWh)

<table>
<thead>
<tr>
<th>Metric</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pod Point EV charging units installed (home and commercial) - total at period end 31 December (No.)</td>
<td>45,441</td>
<td>77,498</td>
<td>137,420</td>
</tr>
<tr>
<td>Number of smart meters installed (millions)</td>
<td>1.5</td>
<td>1.9</td>
<td>2.4</td>
</tr>
<tr>
<td>Carbon avoided by customer solutions (MtCO2e)*</td>
<td>N/A</td>
<td>0.22</td>
<td>0.32</td>
</tr>
</tbody>
</table>

#### Supporting our customers

**Positive environmental contribution**

<table>
<thead>
<tr>
<th>WATER</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total water withdrawals / use (10^9 m³)</td>
<td>7.3</td>
<td>7.4</td>
<td>7.2</td>
</tr>
<tr>
<td>Of which Freshwater (10^9 m³)</td>
<td>0.0</td>
<td>0.1</td>
<td>0.1</td>
</tr>
<tr>
<td>Water returned (10^9 m³)</td>
<td>7.3</td>
<td>7.4</td>
<td>7.2</td>
</tr>
<tr>
<td>Water intensity (kWh)</td>
<td>0.1</td>
<td>0.1</td>
<td>0.2</td>
</tr>
<tr>
<td>Potable water usage - EDF UK excl. HPC (10^9 m³)</td>
<td>4.2</td>
<td>4.4</td>
<td>4.6</td>
</tr>
<tr>
<td>Potable water usage - HPC (m³)</td>
<td>N/A</td>
<td>0.3</td>
<td>0.4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WASTE</th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total conventional waste - EDF UK excl. HPC (t)</td>
<td>19,706</td>
<td>24,952</td>
<td>32,745</td>
</tr>
<tr>
<td>Waste recovered, recycled or composted (including energy recovery) (t)</td>
<td>18,300</td>
<td>24,708</td>
<td>31,492</td>
</tr>
<tr>
<td>Waste diverted from landfill - EDF UK excl. HPC (%)</td>
<td>93%</td>
<td>99%</td>
<td>96%</td>
</tr>
<tr>
<td><strong>Total conventional waste - HPC (t)</strong></td>
<td><strong>N/A</strong></td>
<td>103,102</td>
<td>171,235</td>
</tr>
<tr>
<td>Waste recovered, recycled or composted (including energy recovery) (t)</td>
<td>N/A</td>
<td>96,203</td>
<td>131,898</td>
</tr>
<tr>
<td>Waste diverted from landfill - HPC (%)</td>
<td>93%</td>
<td>93%</td>
<td>77%</td>
</tr>
<tr>
<td>Low-level radioactive waste sent offsite (m³)</td>
<td>444</td>
<td>352</td>
<td>471</td>
</tr>
<tr>
<td>Disposed uranium / Spent fuel (t)</td>
<td>144</td>
<td>161</td>
<td>137</td>
</tr>
<tr>
<td>Intermediate-level generated radioactive waste (m³)</td>
<td>161</td>
<td>161</td>
<td>161</td>
</tr>
</tbody>
</table>

| Other | | | |
| Electric vehicles in the light vehicle fleet (%) | 0.7 | 8.2 | 10.7 |
| Biodiversity action plans (BAPs) in place for EDF nuclear generation sites (%) | 100% | 100% | 100% |
| Area of non-operational land at nuclear generation sites for which biodiversity baseline information established (%) | 100% | 100% | 100% |

*Calculated as carbon emissions avoided per year by cumulative number of low-carbon customer solutions installed, which include smart meters, EV charging point, heat pumps and solar PVs.*

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**EDF Sustainable business update**

### Great place to work

#### HEALTH & SAFETY

<table>
<thead>
<tr>
<th>Metric</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Work-related fatalities</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordable Injury Rate - EDF UK excl. HPC (TRR, per 1 million hours)</td>
<td>1.03</td>
<td>0.59</td>
<td>0.71</td>
</tr>
<tr>
<td>Lost Time Injury Rate - EDF UK excl. HPC (LTR, per 1 million hours)</td>
<td>0.61</td>
<td>0.38</td>
<td>0.57</td>
</tr>
<tr>
<td>RIDDOR Accident Frequency Rate - HPC site only (per 100,000 hours)</td>
<td>0.084</td>
<td>0.081</td>
<td>0.062</td>
</tr>
</tbody>
</table>

#### DIVERSITY & INCLUSION

<table>
<thead>
<tr>
<th>Metric</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Women at Senior Leadership Level (%)</td>
<td>14%</td>
<td>14%</td>
<td>18%</td>
</tr>
<tr>
<td>Female employees (%)</td>
<td>31%</td>
<td>32%</td>
<td>32%</td>
</tr>
<tr>
<td>Diversity and Inclusion Index (based on myEDF employee engagement survey) (%)</td>
<td>80%</td>
<td>83%</td>
<td>81%</td>
</tr>
<tr>
<td>Employee pride (based on myEDF question: I am proud to tell people where I work) (%)</td>
<td>81%</td>
<td>87%</td>
<td>83%</td>
</tr>
<tr>
<td>Senior leaders with diverse characteristics (Gender, Ethnicity, Sexual Orientation and Disability) (%)</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
</tr>
<tr>
<td>Senior leaders with ethnic minority (%)</td>
<td>0%</td>
<td>3%</td>
<td>4%</td>
</tr>
<tr>
<td>Employees with ethnic minority (%)</td>
<td>5%</td>
<td>5%</td>
<td>6%</td>
</tr>
<tr>
<td>Share of women in STEM-related positions (as % of total STEM positions) (%)</td>
<td>17%</td>
<td>18%</td>
<td>19%</td>
</tr>
<tr>
<td>Total employees (No.)</td>
<td>11,828</td>
<td>11,717</td>
<td>11,141</td>
</tr>
<tr>
<td>Employees with permanent contracts (No.)</td>
<td>11,304</td>
<td>11,272</td>
<td>10,684</td>
</tr>
<tr>
<td>External recruitment / new hires (No.)</td>
<td>863</td>
<td>735</td>
<td>609</td>
</tr>
<tr>
<td>Employee turnover rate (%)</td>
<td>11%</td>
<td>7%</td>
<td>13%</td>
</tr>
<tr>
<td>Voluntary employee turnover rate (%)</td>
<td>4%</td>
<td>3%</td>
<td>5%</td>
</tr>
<tr>
<td>Gender pay gap, median (%)</td>
<td>34%</td>
<td>33%</td>
<td>36%</td>
</tr>
</tbody>
</table>

#### POSITIVE SOCIAL CONTRIBUTION

<table>
<thead>
<tr>
<th>Metric</th>
<th>2019</th>
<th>2020</th>
<th>2021</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of customers on Priority Services Register for extra support - Electricity (thousands)</td>
<td>729</td>
<td>771</td>
<td>859</td>
</tr>
<tr>
<td>Number of customers on Priority Services Register for extra support - Gas (thousands)</td>
<td>467</td>
<td>500</td>
<td>575</td>
</tr>
<tr>
<td>Number of customers that received the Warm Home Discount rebate (thousands)</td>
<td>251</td>
<td>256</td>
<td>261</td>
</tr>
<tr>
<td>Purchases of goods and services (million £)</td>
<td>4,048</td>
<td>4,553</td>
<td>5,282</td>
</tr>
<tr>
<td>Supply chain spend with SMEs (%)</td>
<td>26%</td>
<td>25%</td>
<td>22%</td>
</tr>
<tr>
<td>Apprentices trained to support HPC project to date (HPC and contractors) (No.)</td>
<td>644</td>
<td>756</td>
<td>922</td>
</tr>
<tr>
<td>Donations to non-profit organisations (£)</td>
<td>187,222</td>
<td>239,695</td>
<td>239,647</td>
</tr>
</tbody>
</table>