



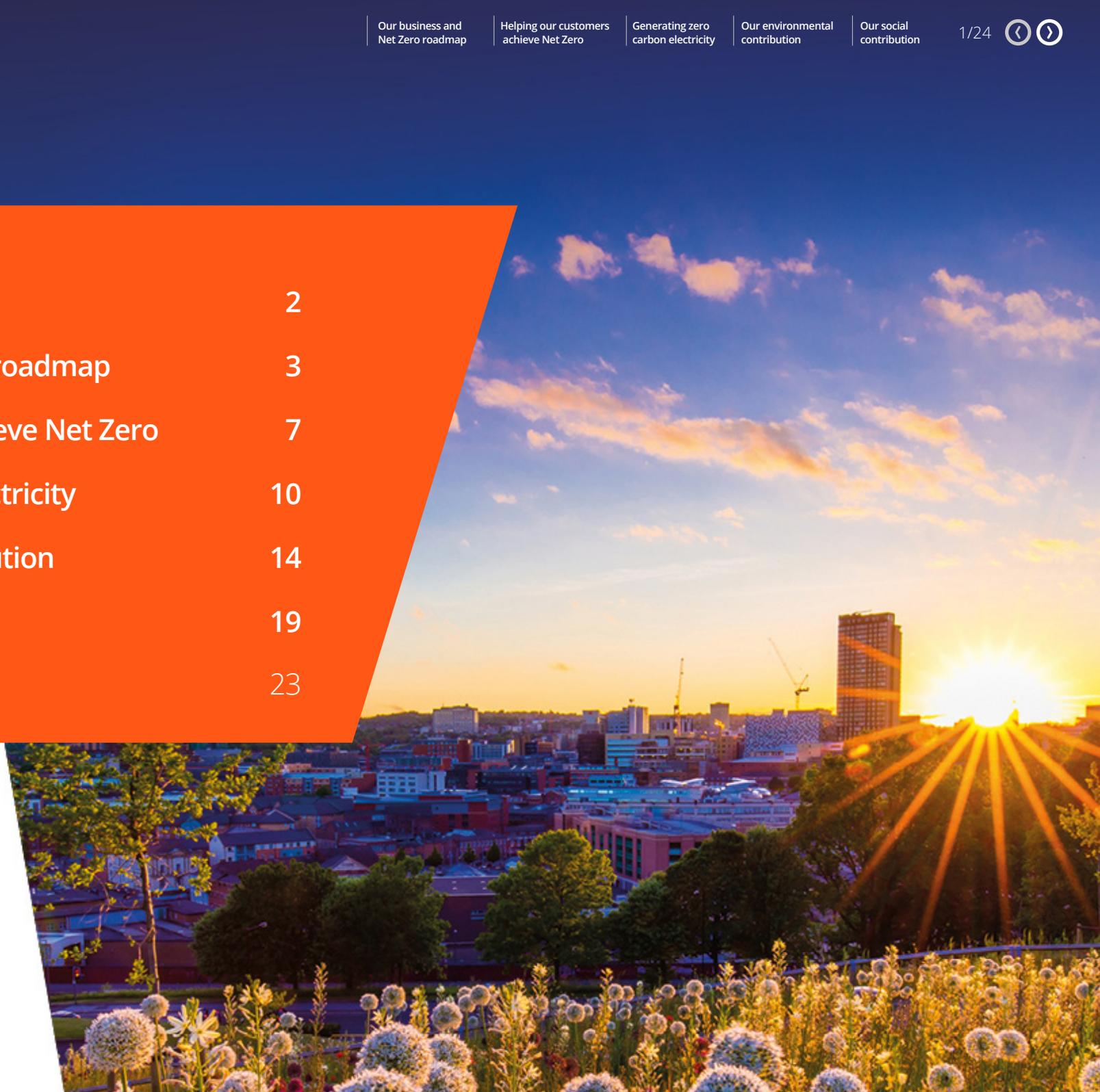
Helping Britain achieve Net Zero

Progress update 2023

How we're supporting an affordable,
secure and just transition



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Much has happened since we set out our purpose to help Britain achieve Net Zero three years ago. Two years of energy crisis have been a stark reminder that progress to Net Zero must also deliver secure and affordable energy for homes and businesses.

Action at scale and pace is needed. At EDF we are unwavering in our commitment because we are clear that what's good for Net Zero is good for Britain's energy security and protects customers from volatile global energy prices. A just transition also creates massive economic opportunity for businesses and communities up and down the country.

That's why alongside our Net Zero ambitions, our sustainable business plan sets out how we continue to support our customers, provide a great place to work and make a broad positive contribution to society.

Helping customers

This year we are spending more than £200 million to help our business and residential customers through the energy crisis.

We are investing in the skills needed to deliver heat pump technologies and we continue to play a leading role in delivering energy efficiency measures for vulnerable customers.

Zero harm

The health and safety of everyone working across EDF's sites is our highest priority. We want everyone to thrive – mentally, physically, and emotionally.

Tragically, a supervisor at our Hinkley Point C site died in November 2022. An independent team investigated the incident to identify lessons and we continue to focus on behavioural safety training, embedding our life-saving rules and maintaining a rigorous approach to risk management.

Zero carbon generation

We achieved a major milestone this year when our carbon intensity at point of generation reached 0gCO₂/MWh. We now only generate zero carbon electricity, and we are Britain's biggest zero carbon electricity generator.

We are leading the UK's nuclear renaissance with a new nuclear power station at Hinkley Point C, and there are advanced plans for a replica at Sizewell C. We are one of Britain's largest investors in renewables including onshore and offshore wind, solar and battery storage.

Driving investment and innovation

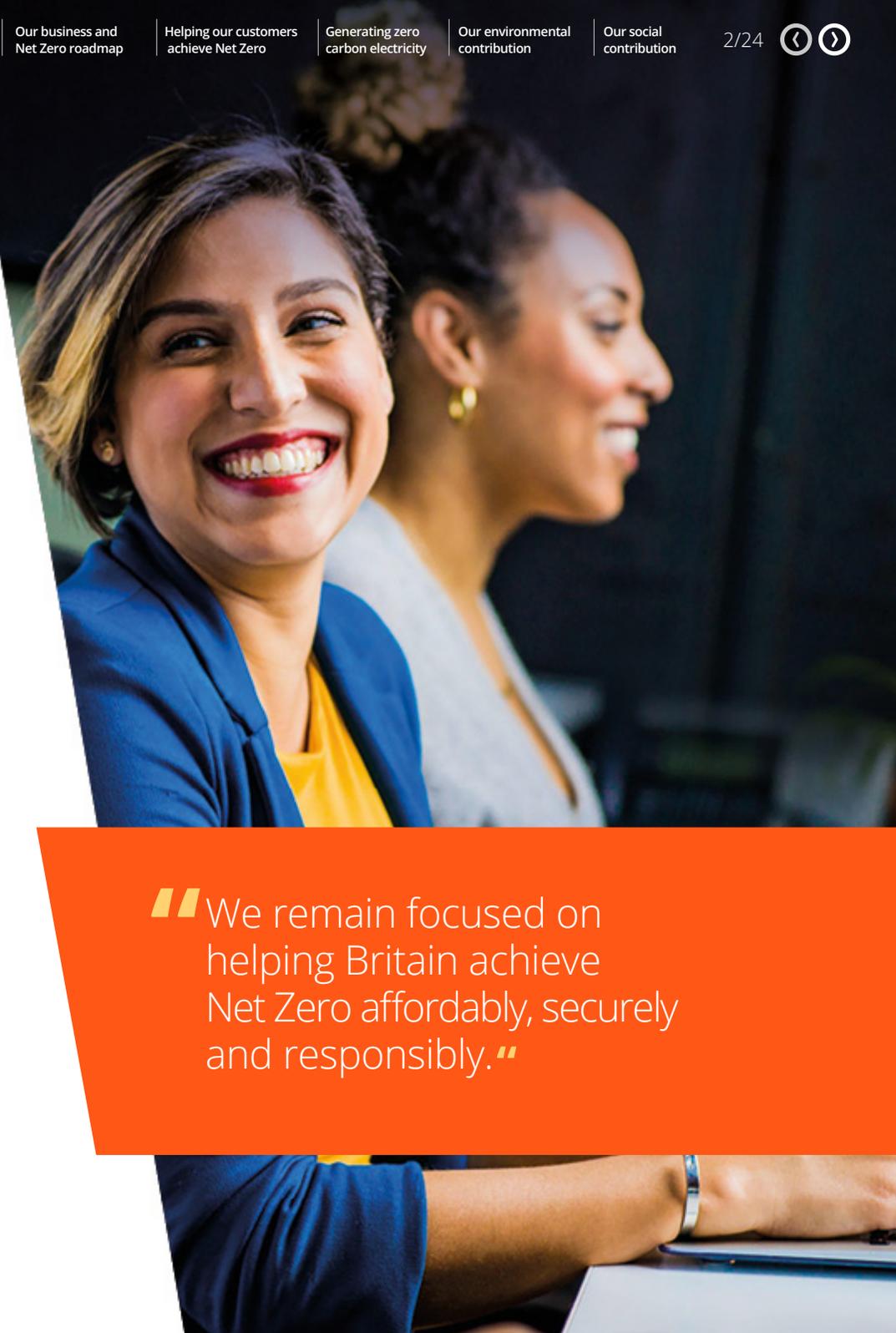
The launch of Great British Nuclear (GBN) reconfirms nuclear at the heart of the UK's plans. We look forward to being part of the solution, working with others to put our land, people and community connections to the service of the country.

We are also innovating, by putting advances in science, engineering and digital to good use across all energy aspects including flexibility, storage, mobility, low-carbon hydrogen, nuclear, wind, and smart digital technologies.

It is not a choice between cash or carbon: Britain deserves secure, affordable energy while achieving Net Zero. This report sets out how we are playing our part.



Simone Rossi, CEO



“We remain focused on helping Britain achieve Net Zero affordably, securely and responsibly.”

Our business

We are helping the transition to a secure, reliable, affordable and resilient **decarbonised energy system** by:



Supplying electricity, gas and energy solutions

to domestic, business and public sector customers



Generating electricity and delivering decommissioning responsibly



Leading on new nuclear in the UK

by building a power station at Hinkley Point C



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 Dalkia UK and Urbanomy



Electric mobility, including majority ownership in Pod Point, a leading UK charging point company



We aim to deliver low-carbon 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.

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.

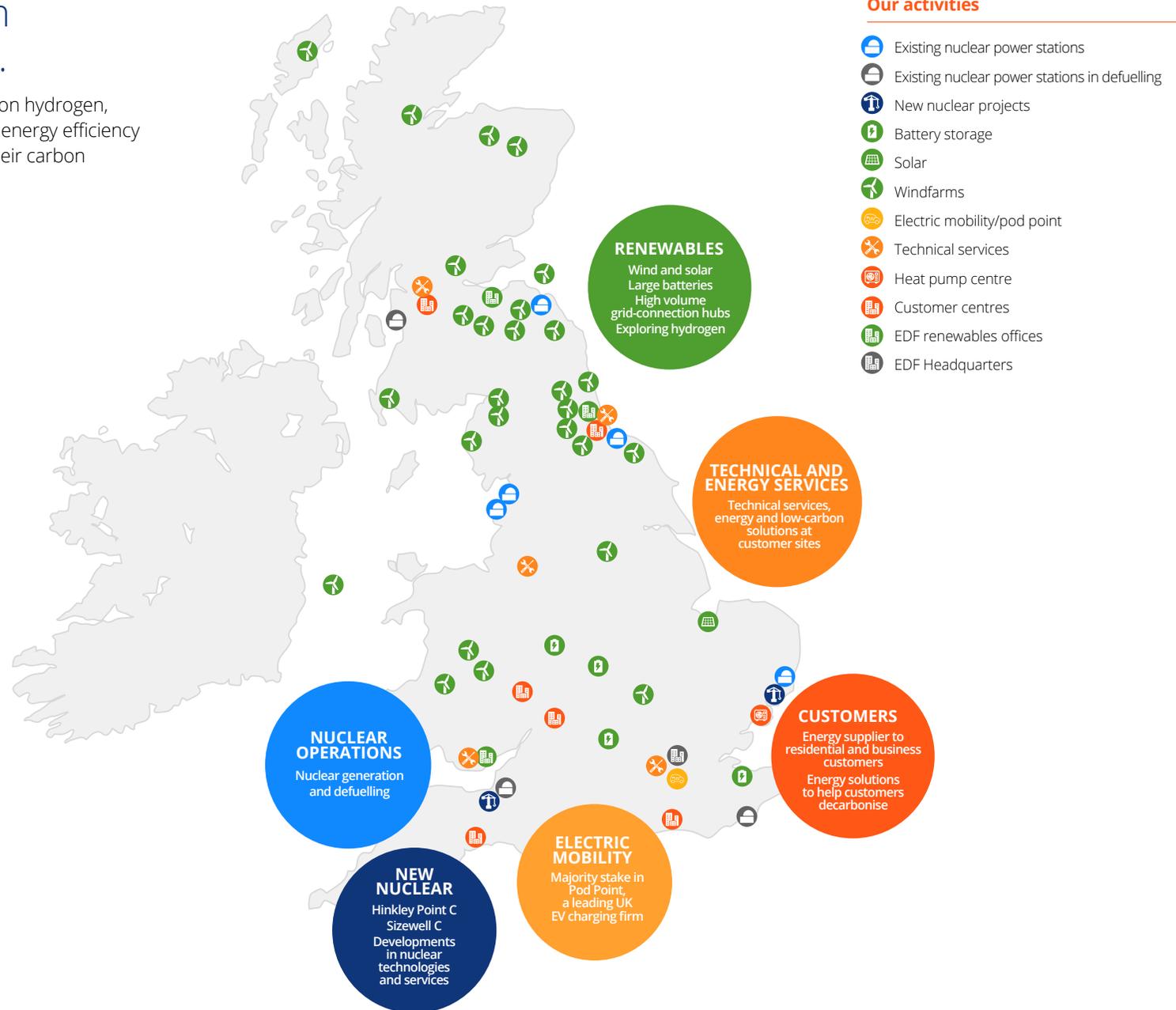
Our purpose is a UK articulation of the EDF Group raison d'être: to build a Net Zero energy future with electricity and innovative solutions and services, to help protect and nurture the environment, and to drive well being and economic development.

We are committed to driving progress in-line with both the UK Government's Net Zero and Energy Security Strategies and the goal of the Paris Agreement to hold the global average temperature increase to well below 2°C above pre-industrial levels.

[Click here to find out more about our purpose to Help Britain achieve Net Zero](#)



We are committed to driving progress in-line with the UN's Sustainable Development Goals (SDGs).



Our activities

- Existing nuclear power stations
- Existing nuclear power stations in defuelling
- New nuclear projects
- Battery storage
- Solar
- Windfarms
- Electric mobility/pod point
- Technical services
- Heat pump centre
- Customer centres
- EDF renewables offices
- EDF Headquarters

Our Net Zero roadmap



> **EDF launched its Climate Commitments** to reduce carbon emissions.

2007

> **Sustainability Partner** of the London 2012 Olympic Games.

2012

> Final investment decision to build **Hinkley Point C**, the first nuclear plant built in the UK for more than 20 years.

2016



> Formalised our commitment to Net Zero, establishing our purpose to **Help Britain achieve Net Zero**.
> **Acquired majority stake in Pod Point**, a leading UK EV charging solution provider.

2020

> Construction of our **first solar farm** at Sutton Bridge.
> Planning consent granted for **Sizewell C** with UK Government announcing its direct investment of £679 million to reach a 50% stake.

2022

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

> Carbon intensity at the point of generation **REDUCED TO ZERO** following the closure of our last coal plant, West Burton A.



> Decision to extend the life of **Heysham 1** and **Hartlepool** to 2026, which will boost Britain's energy security and Net Zero goals.

2023

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

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

2035

OUR ROADMAP TOWARDS NET ZERO

2008

> **Launch of our Social Commitments** covering affordability, supply security, safety, ethical procurement, employee development and community investment.

2009

> **EDF takes responsibility** for the UK nuclear fleet.

2014

> Commissioning of **Teesside wind farm**, EDF's first offshore wind farm in the UK.



2019

> **EDF Group commits to stopping coal-based electricity** and decommissioning starts at our Cottam coal powered station.
> **Acquisition of Pivot Power, specialising** in battery storage and infrastructure for electric vehicle charging.
> **Commissioning of Dorenell** wind farm in Scotland, EDF Renewable's biggest onshore wind site in Europe.

2021

> Cowley battery, our first **grid-scale battery storage system**, starts operations as part of Oxford Energy Superhub, Europe's most powerful electric vehicle charging hub.
> EDF **leads ECO3** energy efficiency programme.
> EDF launches **Energy Hub** consumption insight platform for smart metered customers.



> Sizewell C Final Investment Decision and construction start.
> Nearth na Gaoithe our **largest offshore wind farm** to come online.

2030

> Over **5 million tonnes of CO2** avoided per annum through low-carbon customer solutions.
> EDF Group reduces direct and indirect emissions **50%** (vs. 2017) and scope 3 emissions **28%** (vs. 2019).
> **100%** EDF light vehicle fleet switched to electric.



2050

> **UK AND EDF GROUP TO ACHIEVE NET ZERO**

Our goals and highlights



Helping our customers achieve Net Zero

In 2023, we're investing more than **£200 million** to help our customers save cash and carbon with smarter and innovative solutions

By **2030**, we will help customers avoid **5MtCO₂e per annum** through low-carbon solutions we help to install, including smart meters, EV chargers, heat pumps and solar panels



Generating zero carbon electricity

We are investing **£4.5 billion** in 2023 and **£5 billion** in 2024, building and maintaining Britain's nuclear and renewables generators

By **2035**, we will have enabled over **£50 billion** of investment into the UK,

developing **15GW** of zero carbon electricity



Our environmental contribution

We will be **Net Zero** by 2050, with a fully electric light vehicle fleet by 2030



We will deliver **positive biodiversity outcomes** for all developments and on all land we directly manage



Our social contribution



We believe all harm is preventable and so we strive for **Zero Harm**

50% of senior leaders will have diverse characteristics by 2030*

GOALS

We have maintained our industry-leading customer service with a **'Great'** rating on Trustpilot



In April we reduced our **carbon intensity** at the point of generation to **0gCO₂/MWh**



more than 22% of our light vehicle fleet is electric



27% of our senior leaders had diverse characteristics at the end of 2022*

We helped our customers avoid **0.5MtCO₂e** in 2022

We funded the installation of more than **15,500** efficiency measures for the ECO4 scheme

We have installed more than...



210,000

EV CHARGE POINTS VIA POD POINT

and installed more than **3 million** smart meters*

We are Britain's biggest **zero carbon** electricity generator

WE ONLY GENERATE ZERO CARBON ELECTRICITY

We operate **1GW** of renewables capacity and have over **8GW** in construction and planning in the UK

100% of our nuclear sites

have biodiversity action plans in place with **Biodiversity Benchmark accreditation** maintained at our six AGR nuclear landholdings



£1.3 billion spent with SMEs in 2022, which covers **22%** of our spend with suppliers



More than 2000 apprentices trained across our business^

HIGHLIGHTS

Helping our customers achieve Net Zero

We are one of the biggest UK energy suppliers with **3.7 million residential and business customers**. We aim to be part of the solution to the affordability crisis and we have a long-standing commitment to helping vulnerable and fuel-poor households.



GOALS

> **By 2030, we will help customers avoid 5MtCO₂e per annum** through low-carbon solutions we help to install, including smart meters, EV chargers, heat pumps and solar panels.

> **In 2023, we're investing more than £200 million** to help our customers save cash and carbon with smarter and innovative solutions.





Energy efficiency

We offer energy efficiency solutions such as insulation, heating solutions and Energy Performance Certificates. We team up with installers so residential customers can purchase **loft and cavity wall insulation** to reduce heat loss and save energy.

We are a leader in energy efficiency installations through the Energy Company Obligation (ECO) scheme, which places an obligation on larger suppliers to promote energy efficiency measures that help vulnerable customers reduce their bills. We commenced delivery of the fourth scheme, **ECO4**, ahead of the market to ensure homes were winter ready and installed over **15,500 measures** since the beginning of ECO4.

[Click here to find out more about our energy efficiency hub](#)

Smart meters

Smart meters help customers understand their energy consumption and how to reduce their bills and emissions. We are committed to the roll out of smart meters as part of the national programme and in 2022, we installed a further **563k** smart meters. At the end of 2022, **54%** of our customers in scope for the rollout have smart meters. In total, we have installed more than **3 million** smart meters by mid 2023. Our **Energy Hub** uses smart meter data to give residential 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** a year. Over **400,000** customers are actively engaging with Energy Hub.

[Click here to find out more about smart meters](#)



EV chargers

We continue to support the roll out of EV charging infrastructure through our majority stake in Pod Point. Pod Point maintains market leadership in the UK home sector with over **188,000** charging points installed. Pod Point has also made significant progress in the commercial sector with over **23,000** commercial charging points installed in total by mid 2023.

[Click here to find out more about our solutions for electric cars](#)



Heat pumps

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

[Click here to find out more about our heat pump offering](#)

Technical and energy services

Dalkia UK, jointly owned by EDF Energy and Dalkia, is one of the UK's leading technical services businesses providing **engineering, facilities, energy and specialist services** for the private and public sector.

[Click here to know more about Dalkia UK](#)





Power Purchase Agreements

We are **supporting** independent UK generators to develop new renewable energy sources, and supporting their existing renewable sites, through Power Purchase Agreements (PPAs). Our corporate PPA solutions also support new renewable projects and allow our business customers to connect with renewable generators in a traceable manner.

[Click here to find out more about our PPAs](#)

Solar panels

We help customers install solar panels, working with delivery partners committed to providing excellent customer service, safe installations and technical competence. We also support businesses and public sector organisations with solar solutions that are funded through PPAs by EDF Renewables.

[Click here to find out more about solar panels for domestic customers](#) and [here for businesses](#)



Electricity supply

We offer electricity supply options backed by REGOs and nuclear, which are compatible with some zero carbon reporting standards for scope 2 emissions.

Strategic energy and climate consultancy

EDF subsidiary Urbanomy is an energy and climate strategy consultancy with a mission to **accelerate the transition** to Net Zero. Urbanomy helps private and public customers to build their climate strategies and their action plan to reduce their greenhouse gas emissions.

[Click here to find out more about Urbanomy](#)



Innovation

We participate in various innovation projects to advance solutions that help customers save cash and carbon. Our research and development (R&D) team is engaged in projects across all energy aspects including Nuclear, Climate Change, Offshore Wind, Energy Systems, Flexibility & Storage, Zero Emissions Mobility, Low-carbon Hydrogen and Smart Digital Technologies.

- We are leading the first phase of **project FLASH** to demonstrate how domestic flexibility can help support the grid by managing variations in renewable generation, reducing electricity bills, unlocking clean energy and reducing our carbon footprint.
- We are leading a consortium supported by the Heat Pump Ready Programme to allow customers to easily choose the right heat pump. A single platform, the **One-stop Heat Pump App**, will guide them through the heat pump process, providing detailed technical support before, during and after the installation.



HELPING CUSTOMERS THROUGH THE ENERGY CRISIS

To help our customers, we have introduced the following extra support services:

- **Fresh Start:** We clear existing debt up to £2,000 for vulnerable customers in debt for more than 45 days. We have offered over **9,000** measures since mid-2022.
- **Helping Hands:** We offer weekly £10 automatic top up contributions for up to 6 months for vulnerable customers. We have offered over **5,000** measures since mid-2022.
- **Take Control:** We proactively engaged with **100,000** vulnerable customers ahead of the 2022/2023 winter to make a direct offer of financial support.

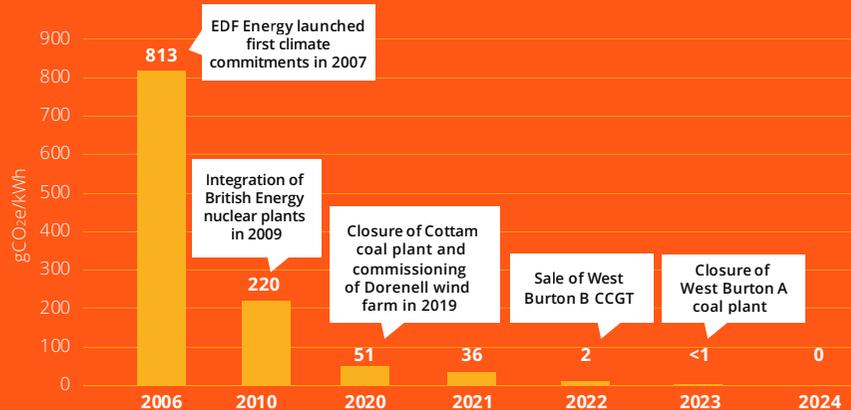


Generating zero carbon electricity

In April 2023, we achieved our goal to **reduce carbon intensity at the point of generation to 0g CO₂e/MWh**. This followed the closure of the last 2 units of our West Burton A coal plant in March 2023.

We now generate 100% zero carbon electricity from wind farms and nuclear plants.

Direct combustion emissions intensity of our electricity generation



GOALS

> **By 2035, we aim to enable over £50 billion of investment into the UK**, the equivalent to nearly £1,750 per household, developing 15GW of zero carbon electricity. That's around 20% of the current energy needs in the UK.

> **We are investing £4.5 billion in 2023 and £5 billion in 2024**, building and maintaining Britain's nuclear and renewables generators.





Onshore wind

- We operate **more than 30** onshore wind farms in the UK.
- In 2022, we completed the construction of the **30MW** West Benhar wind farm.
- Our largest onshore wind farm in Europe is the **177MW** Dorenell farm in Scotland, providing power for around 106,000 homes since 2019.

[Click here to find out more about our onshore wind activity](#)

Offshore wind

- We have two operational offshore wind farms in England: the **62MW** Teesside farm and **41.5MW** Blyth farm.
- 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.

[Click here to find out more about our offshore wind activity](#)



Solar

- We are building solar farms with **50MW** Porth Wen farm, **50MW** Sutton Bridge farm, and **50MW** Burwell farm expected to go live in 2023. Each will be capable of generating enough low-carbon electricity for more than **9,000** households annually, saving around **21,000 tonnes** of CO₂.

[Click here to know more about our solar projects](#)



Batteries

- We are enhancing the flexibility of the electricity system by developing **Energy Superhubs**, which combine large-scale batteries and high-volume power connections to enable rapid EV charging.
- In 2022, we activated a cutting-edge hybrid battery near Oxford combining a **50MW/50MWh** lithium-ion battery with a **2MW/5MWh** vanadium flow battery. The battery provides flexibility to the grid by storing energy at times of high supply and discharging electricity when the sun doesn't shine or the wind doesn't blow.
- We will bring online **two** more battery sites in Bustlehome and Coventry.
- We signed a repeat order with technology group Wartsilä to deliver our **sixth** battery storage project, which will be a **57MW/11MWh** grid-scale facility in Suffolk.

[Click here to find out more about our battery storage](#)



Hybrid

We are developing our first multi-technology renewable energy project in South Wales, **Hirfynydd Renewable Energy Park**. This hybrid project will include up to seven turbines, a solar array and battery storage and have an installed capacity of **100MW**, capable of generating electricity for more than **37,500** households.

[Click here to find out more about the project](#)





Nuclear

We are supporting the ambition of the UK Government to deliver new and advanced nuclear power to help meet projected electricity demand by:

- **Operating five nuclear plants:** Sizewell B, Hartlepool, Torness, Heysham 1 and 2
- **Defuelling all AGR power stations**, with Dungeness B, Hunterston B and Hinkley Point B currently in defuelling phase
- **Building a 3.2GW European Pressurised Water Reactor (EPR)** at Hinkley Point C in Somerset
- **Developing** a replica **3.2GW EPR project** at Sizewell C in Suffolk
- Working on extending the operational life of Sizewell B by at least **20 years**, from 2035 to 2055
- 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.

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

[Click here to find out more about our nuclear power stations](#)



How nuclear can help Britain achieve Net Zero and energy security

Nuclear plants can help stabilise and reduce energy costs in the long term, generating low-carbon electricity and limiting the indirect costs of climate change. Despite the large capital costs needed for construction, once operating nuclear plants provide large and stable low-carbon electricity supply over long lifetimes, resulting in low marginal costs. Nuclear plants do not rely on volatile or intermittent energy sources, contributing to the **stability** of power grids and minimising the indirect costs of energy shortage and contributing to **energy security**.

Nuclear has zero direct combustion emissions. Even emissions from the lifecycle of nuclear plants, from construction, operations, fuel production to decommissioning, are much lower than gas, solar and wind. This has been demonstrated through lifecycle carbon assessments (LCAs) of Sizewell C, Hinkley Point C, Sizewell B and Torness. Find out how we take action to further reduce emissions from our nuclear plants in the section **Our Environmental Contribution**.

Innovation



Bay Hydrogen Hub: We are developing an innovative technology that uses nuclear generated heat and electricity to create hydrogen for asphalt and cement sites. This project is a key step towards the decarbonisation of the asphalt and cement industries, developing nuclear enabled hydrogen production and investigating technologies to deliver hydrogen to dispersed industrial sites. The project received Government funding for an initial feasibility study with the aim of demonstrating the technology at the megawatt scale by 2025.

[Click here to find more about Bay Hydrogen Hub](#)



Sizewell C Clean Energy Hub: Sizewell C can help kickstart other Net Zero technologies such as hydrogen production and direct air capture (DAC). Nuclear is a great way of producing low-carbon hydrogen as it generates low-carbon electricity and heat.

[Click here to find more about Sizewell C Clean Energy Hub](#)

HyDUS (Hydrogen in Depleted Uranium Storage): We are part of a consortium to develop an innovative hydrogen storage demonstrator. Under this technology, hydrogen is absorbed on a depleted uranium 'bed', which can then release the hydrogen when needed for use. New technologies are needed to store energy for long periods when low-carbon generation sources are producing excess energy.

[Click here to find more about HyDUS](#)



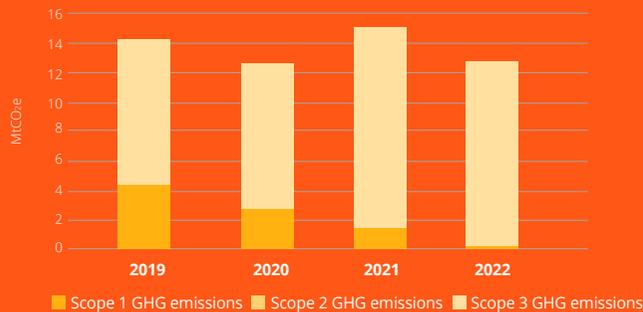
Tees Green hydrogen: Our Tees Green hydrogen project has been shortlisted for the Government's Net Zero Hydrogen Fund. It will use green electricity from our nearby Teesside offshore wind farm and a planned new solar farm, to power its hydrogen electrolyser and supply local businesses with green hydrogen.



Our environmental contribution

We seek to **reduce our carbon emissions, waste, water use and have a positive impact on biodiversity**, whilst complying with all relevant environmental legislations, permits and other requirements.

The carbon footprint of EDF in the UK



Decarbonisation

In 2022, our total carbon emissions decreased by 17% compared to 2021 emissions, driven by a 91% decrease in our direct Scope 1 emissions (following the closure of our last coal plant) and 8% decrease in Scope 3 emissions (reduced gas demand by customers). Our Scope 3 emissions now represent 99% of our total. This is predominantly from the sale of gas to residential customers. We are actively campaigning for heat pumps to replace gas boilers in homes, which would significantly reduce Britain's carbon emissions.



GOALS

> **We will be Net Zero by 2050**, with a fully electric light vehicle fleet by 2030.

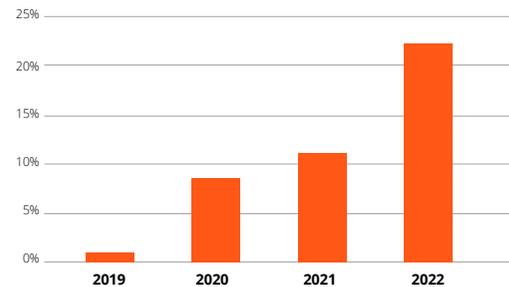
> **We will deliver positive biodiversity outcomes** for all developments and on all land we directly manage.

Find environmental metrics in our datasheet >





Percentage of EVs in the light vehicle fleet*



*including Dalkia UK

Electric vehicles

As part of EDF Group we are committed to the EV100 initiative and converting our entire fleet to electric vehicles (EVs) by 2030. We are contributing to this with more than 400 EVs qualifying for EV100, representing over 22% of our fleet at the end of the first quarter of 2023. Many of our UK employees are advocates of EVs, with more than 700 employees having a Tusker car agreement in July 2023 leasing an EV or an ultra-low emissions vehicle through our employee leasing offer, avoiding more than **2500 tonnes CO₂e** per year.



Buildings and sites

We implement measures across our estate to reduce energy consumptions and emissions, including smart metering, LED lighting and heat pumps. A dedicated energy manager works to achieve significant savings through energy contract advice and strategic purchasing, a self-built energy management system to monitor energy usage, site reviews and recommendations, winter energy saving initiatives, and sharing of best practice.

Lifecycle analysis of carbon emissions

The LCAs of Sizewell C, Hinkley Point C, Sizewell B and Torness, have helped us to understand the carbon impact of our nuclear plants and inform our approach to reduce emissions and quantify our requirements to get to Net Zero. Despite the already low lifecycle emissions, we are taking action to further reduce emissions from construction, upstream fuel, operation and decommissioning.

- **Construction:** Measures to reduce emissions from construction include retaining material onsite for reuse, reducing diesel use by powering equipment with mains electricity and using solar or hybrid tower lights. We use ships to deliver loads instead of lorry loads, which is made possible with a refurbished wharf for large components and a jetty for construction aggregates.
- **Upstream fuel:** We support EDF Group's work to reduce the lifecycle emissions of nuclear fuel by collaborating with suppliers and exploring routes to decarbonise activities in the fuel cycle.
- **Operation:** We have launched a new initiative to reduce our operational power plant emissions, appointing Net Zero Leads at each station to coordinate projects in support of our sustainability goals.
- **Decommissioning:** We worked with consultants Ricardo, to develop a route map to understand emissions associated with our decommissioning responsibilities. We are now working on the recommendations, including site audits, green travel plans, the switch-off of redundant equipment, and developing a strategy for landscaping and vegetation.



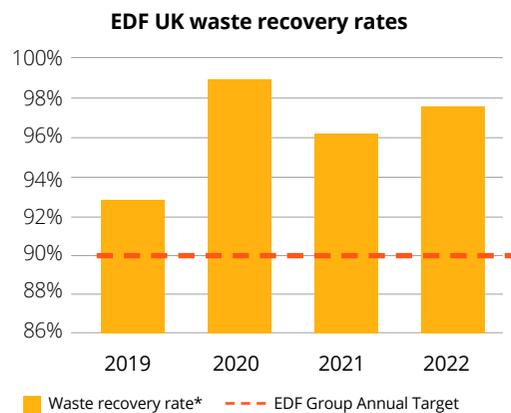
Jamie is the Net Zero Lead at Hartlepool.
"I'm Jamie, the environmental compliance coordinator at Hartlepool. I have put myself forward for this role as I want to make a difference to help reduce the greenhouse gas emissions and the wastes we are producing, and to protect the environment."



Circular Economy

As part of EDF Group we are committed to a Circular Economy approach that enhances the use of natural resources and limits our environmental footprint along the lifecycle of our installations and activities. We aim to implement Circular Economy principles into the way we work by designing and maintaining low-carbon energy facilities with long lifetimes, pro-actively preventing waste and pollution, achieving greater resource productivity, and preserving and recovering the value of products and assets.

Our waste recovery rates remain high and ahead of the 90% target set by EDF Group. In 2022, **98%** of conventional waste at our operating sites was recovered, recycled or composted and 2% was sent to landfill.



*Excluding Hinkley Point C



Wind turbine blades: While most components of wind turbines can be recycled, blades are more challenging to recycle due to the composite materials used in their production. We are developing solutions to prevent wind turbine blades from going to landfill. We are part of the SusWind initiative, launched in 2021 by the National Composites Centre, which explores the use of sustainable materials and how to recycle materials in wind turbines.



Circular Economy

Nuclear plant construction: During the construction of Hinkley Point C, we have run various initiatives to integrate Circular Economy principles on our site and across our supply chain.

- Hinkley Point C's reinforcing bar is made from **98% recycled steel** sourced in the UK.
- Hinkley Point C's catering supplier sources local food and reduces plastic packaging: **95%** of the packaging used comes from sustainable sources, with almost no single-use plastic.
- Any food waste generated at the central kitchen is taken to an anaerobic digester, providing power back into the grid.
- In 2020, we opened a waste consolidation centre to process and sort materials, increase recycling and reduce landfill.
- We are developing a consistent process to assess, treat and reuse construction assets, materials and equipment that are not used anymore. For example, interlocking Legato blocks initially used to build a new water transfer facility have been reused to build walls on the construction site.



Decommissioning: Following the closure of our last coal plant, West Burton A, that ceased generation in March 2023, we are aiming to reuse and recycle materials, goods and assets wherever possible. For example, we have donated shipping containers and various tools to local communities, and transferred metal analysers, electronic devices, monitors, cables, stands, workshop machines and equipment to other sites.

[Click here to find out more about decommissioning](#)



Nuclear waste management: We design and operate nuclear plants with long lifetimes, which aligns with the Circular Economy principle of preserving the value of assets. Nuclear generation results in small amounts of radioactive waste, which we ensure is safely managed. It is classified into three categories:

- **Low-level waste:** This makes up around 90% of the volume of the UK's radioactive waste, but counts for only 1% of its radioactivity. It's mostly made up of paper, wood and machinery components. To dispose of this waste, we ensure it is treated in the most appropriate manner and comply with our environmental authorisations.
- **Intermediate-level waste:** Some intermediate-level waste requires special shielding and handling while we encase it in cement and seal it in approved packages. Other intermediate-level waste are suitable for treatment.
- **High-level waste:** This makes up just 3% of the volume of the UK's radioactive waste, but 95% of its radioactivity. It comes from spent fuel after it has been used in the reactor. It is turned into stable and secure glass blocks by heating it until it turns into powder, then mixing it with crushed glass which is then heated until it melts to form a solid block. It can then be sealed into steel canisters. These canisters are stored securely at Sellafield in readiness for a planned geological disposal facility.

[Click here to find more about how we dispose of nuclear waste safely](#)



Climate adaptation

The world is already experiencing changes in average and peak temperatures, shifts in seasons and increasing frequency of extreme weather events. In addition to reducing our emissions to achieve Net Zero, we need to develop adaptation solutions to respond to current and future climate impacts.

- We conduct **climate related risk assessments** as part of the requirements to safely plan, operate and decommission a nuclear station, to ensure risk assessments and management plans continue to reflect our evolving understanding of the potential impacts of climate change. We implement enhancements to our nuclear fleet to ensure safety in case of extreme weather events, such as heatwaves and severe storms.
- We also carry out **Climate Change Resilience Assessments** as part of the planning and development consent for our new nuclear plants Hinkley Point C and Sizewell C. These assessments identify the potential consequences of climate change and appropriate mitigation or adaptation measures.
- We have set up a **Climate Change Adaptation Programme** to understand the physical risks and implications of climate change impacts on our nuclear business and deliver the necessary framework and tools to manage those risks and develop adaptation plans.



act4nature
international



Biodiversity

We aim to deliver positive biodiversity outcomes on all land we directly manage and for all developments. We implement this by having Biodiversity Action Plans in place at all nuclear sites, setting out objectives and targets for managing land and monitoring habitats and species to ensure a positive outcome for biodiversity is achieved. We also maintain the **Biodiversity Benchmark accreditation** for the management of the non-operational land at our six UK AGR nuclear landholdings. To date, we are the only UK energy company that has been certified. This is part of EDF Group's commitments to **Act4nature**, an initiative aimed at accelerating concrete business action in favour of nature.

Sizewell C will give more back to biodiversity in Suffolk than it takes away, targeting **19% biodiversity net gain** in the long-term and investing in habitat creation to protect local species. This habitat creation has already started with new wetland hosting marsh harriers, bats, water voles and otters. Sizewell C's environment team created Wild Aldhurst, a flourishing nature reserve open to the public, combining grassland, heathland and wetland to protect and enhance nature.



Our social contribution

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

We aim to **deliver the best workforce** at the right time in the right way.



WE HAVE

357

EARLY CAREER EMPLOYEES

within Sizewell C, Hinkley Point C and Nuclear Operations*



WE HAVE TRAINED MORE THAN

2000

APPRENTICES

since 2012



WE HAVE COMMITTED TO OVER

£300 million

OF INVESTMENT

in skills, education and training since 2012



GOALS

> **We believe all harm is preventable** and so we strive for Zero Harm.

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

Find social metrics in our datasheet >

*as of September 2023





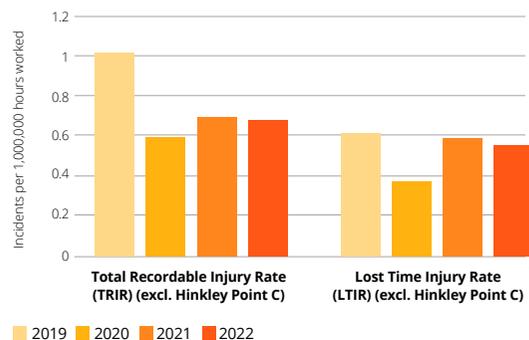
Health, safety and wellbeing

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. 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.

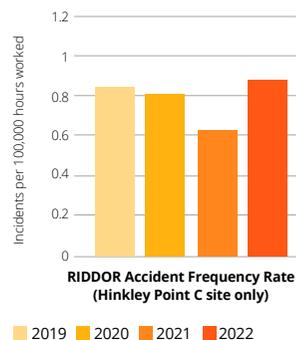
We take a rigorous approach to risk assessing our arrangements against the EDF Group BEST Framework (Building Excellence in Safety Together) to ensure we align with best practices and we learn from our peers. Maintaining a strong safety track record of our fleet, and instilling public confidence in nuclear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

Tragically, a supervisor at our Hinkley Point C site died in November 2022. An independent team investigated the incident to identify lessons and we continue to focus on behavioural safety training, embedding our life-saving rules and maintaining a rigorous approach to risk management against the EDF Group BEST Framework.

TRIR and LTIR for EDF UK (excl. Hinkley Point C)



RIDDOR for Hinkley Point C



Equity, Diversity and Inclusion

We aim to provide a great place to work, by enhancing equity, diversity and inclusion for our colleagues and supply chain.

[Click here to find out more on diversity, inclusion and equity](#)

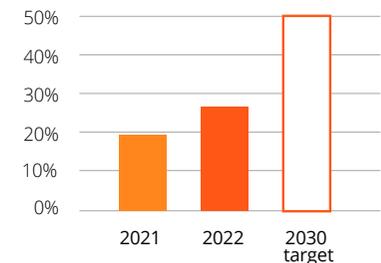
With full collaboration of representatives from all business units across the company, we are taking practical steps to embed justice, equity, diversity, and inclusion into all that we do. We know that getting this right unlocks the performance potential of everyone, which is great for our business. We have identified four key pillars of activity for us to focus on until the end of 2026:

- A workforce that fully represents the society in which we operate
- Everyone's welcome — an equitable and inclusive culture
- Equity & inclusion by design
- A tailored approach for those who need it.

In 2021, we started monitoring the diversity of our leadership in terms of Gender, Ethnicity, Sexual Orientation and Disability. We set several targets, including 50% of our senior leaders to have one or more of these diverse characteristics by 2030.

We monitor and seek to influence the diversity of our supply chain. Over **£130 million** spent with **332 diverse owned suppliers[^]** in 2021, which accounts for over 9% of the total suppliers.

Senior leaders with diversity characteristics*



*Gender, Ethnicity, Sexual Orientation and Disability

[^] Diverse Owned suppliers are those identified as being +51% owned by person(s) recognised under the following categories: Race, Gender, Sexuality, and Disability.

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.

Coal plant closure: Following the closure of our last coal plant, West Burton A, in March 2023, we support the future redeployment of our people to ensure that everyone leaves in the best physical and mental health possible, ready for embarking on their future lives and careers. We have been engaging with our people to understand everyone's individual aspirations and mobility preference. More than 15% of our West Burton employees have secured roles internally, including at Hartlepool, Heysham, Sizewell, Hinkley B and C, and Renewables, directly contributing to the development of a low-carbon economy.



From Coal to Renewables: Kraig Wright worked at West Burton for 18 years before he moved over to the renewables side of the business in 2021. Working in the electrical team, Kraig's transferable skills meant that he was an ideal candidate for the new role in renewables. Like many people who have worked at the recently decommissioned coal station, West Burton holds a special place in Kraig's heart: *"The development I received at West Burton was exceptional, learning about coal conveyor belt systems through to working on high voltage systems. Learning the skills of many jobs on the site has helped me to get where I am today."*

National College for Nuclear: We are one of the founding industry partners of 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 people to facilitate the implementation of this new strategy.

Renewables: We are preparing new generations to work in the low-carbon sector and launched Destination Renewables, a new pioneering programme preparing students for the future renewables' jobs market at Pembrokeshire College currently with **40 students** signed up.

Construction: We help local people join our projects and will offer **30,000** new training places at Hinkley Point C between now and the station's completion. Trainees will be able to upgrade their skills and earning potential by joining the teams fitting miles of pipes, cables, equipment, and control systems. The opportunities have been made possible by Hinkley Point C's **£24 million investment** into education, skills, and employment, including at three new Centres for Excellence in welding, electrical and mechanical skills. To date, over 1,100 apprentices were trained on the project.

Heat pumps: We are set to train **4,000 heat pump installers** a year to help the UK hit its target of 600,000 heat pumps by 2028. We have partnered with CB Heating and Daikin to create a new training academy to drive the upskilling of heat pump installers. Once trained, these engineers will continue to receive support from Daikin, EDF and CB Heating in safely and efficiently installing the technology nationwide.

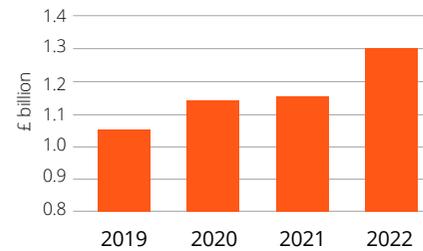


Community support

We are making a strong socio-economic contribution to local communities and economies across the UK. Notably, we support them through various funds, investing in local initiatives near our sites.

We have increased our supply chain spend with SMEs with around **£1.3 billion** spent with over **2,500 SMEs** in 2022, which covers **68%** of our total supplier's base.

We increase our supply chain spend with SMEs



At Sizewell C:

- **£250 million** package of local funding
- **2.6k** construction jobs in Suffolk
- **70k jobs** supported in the UK
- **£4 billion** into the East of England economy

At Hinkley Point C:

- **19,250 jobs** created directly on-site so far
- **£139 million** of community investment into local infrastructure and community support
- **£5.3 billion** spent with local companies
- **£14.5 million** provided to local projects through the Community Fund
- **£24 million** invested directly into Education, Skills and Employment
- **11,000** young people benefited from Hinkley Point C's education programmes

OUR PARTNERSHIP WITH

PROSTATE CANCER UK



In 2020, we entered into a four-year partnership with Prostate Cancer UK (PCUK) focusing on awareness and 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. We have now raised more than half a million, which exceeds our target. The money raised will help fund research, healthcare improvements, quality support services and engagement for changes in policymaking. 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. To celebrate the end of our partnership, we have a team of 15 employees going to the Pyrenees to trek the Freedom Trail and aim to raise over £29,000.

METRIC

2020 2021 2022



Net Zero GHG footprint by 2050

Scope 1 GHG emissions (MtCO _{2e})	2.8	1.7	0.2
Scope 2 GHG emissions (MtCO _{2e})	0.002	0.003	0.004
Scope 3 GHG emissions (MtCO _{2e})	9.9	13.3	12.2
Total GHG emissions (MtCO _{2e})	12.7	14.9	12.4
Carbon intensity at the point of generation: combustion emissions from the production of electricity (gCO _{2e} /kWh)	51	36	2
Percentage of electric vehicles in the light vehicle fleet	8.2%	10.7%	22.5%
Total number of electric vehicles in the light vehicle fleet (EV100 qualifying)	132	166	317



Supporting our customers

Total Pod Point EV charging units installed and able to communicate (at period end)	77,498	137,420	195,096
Home EV charging units installed	66,548	121,415	173,754
Commercial EV charging units installed	10,950	16,005	21,342
Total number of smart meters installed (at period end)	1,925,516	2,382,314	2,945,782
Carbon avoided per annum enabled by customer solutions (MtCO _{2e})*	0.22	0.32	0.50



Water

Total water use for cooling (10 ⁹ m ³)	7.4	7.2	7.3
Water use for cooling - Freshwater (10 ⁶ m ³)	0.1	0.1	0.05
Water use for cooling - Salt water (10 ⁶ m ³)	7.3	7.1	7.3
Water returned back to the environment after use for cooling (10 ⁹ m ³)	7.4	7.2	7.3
Water consumed or evaporated after use for cooling (10 ⁹ m ³)	0.007	0.005	0.002
Water intensity (l/kWh)	0.1	0.2	0.2
Potable water usage - EDF UK excluding Hinkley Point C (10 ⁹ m ³)	4.4	4.6	4.3
Potable water usage - Hinkley Point C (10 ⁹ m ³)	0.3	0.4	0.4



Waste

Total conventional waste - EDF UK excluding Hinkley Point C (t)	24,952	32,745	14,115
Share of waste recovered, recycled, composted (including energy recovery) - EDF UK excluding Hinkley Point C	99%	96%	98%
Total conventional waste - Hinkley Point C (t)	103,102	171,235	141,083
Share of waste recovered, recycled, composted (including energy recovery) - Hinkley Point C	93%	77%	100%
Low-level radioactive waste sent offsite (m ³)	352	471	498
Disposed uranium / Spent fuel (t)	161	137	162
Intermediate-level generated radioactive waste (m ³)	161	161	196



Biodiversity

Biodiversity action plans (BAPs) in place for EDF nuclear generation sites	100%	100%	100%
Biodiversity Benchmark accreditation for the management of the non-operational land at our six AGR nuclear landholdings	100%	100%	100%

METRIC

2020 2021 2022



Health & safety

Work-related fatalities (excluding Hinkley Point C)	0	0	0
Work-related fatalities - Hinkley Point C	0	0	1
Total Recordable Injury Rate - EDF UK excluding Hinkley Point C (TRIR, per 1 million hours)	0.59	0.71	0.7
Lost Time Injury Rate - EDF UK excluding Hinkley Point C (LTIR, per 1 million hours)	0.38	0.57	0.53
RIDDOR Accident Frequency Rate - Hinkley Point C (per 100,000 hours)	0.081	0.062	0.087

Diversity & Inclusion

Women at Senior Leadership Level	14%	18%	21%
Women employees	32%	32%	31%
Senior leaders with diverse characteristics (Gender, Ethnicity, Sexual Orientation and Disability)	N/A	20%	27%
Senior leaders with ethnic minority	3%	4%	5%
Employees with ethnic minority	5%	6%	6%
Women in STEM-related positions (as % of total STEM positions)	18%	19%	19%
Gender pay gap, median	33%	36%	36%
Diversity and Inclusion Index (based on myEDF employee engagement survey)	83%	81%	84%
Employee pride (based on myEDF question: I am proud to tell people where I work)	87%	83%	83%

Employment

Total employees	11,717	11,141	10,795
Employees with permanent contracts	11,272	10,684	10,402
External recruitment / new hires	735	609	1,007
Employee turnover rate	7%	13%	12%
Voluntary employee turnover rate	3%	5%	6%

Helping vulnerable customers

Number of customers on Priority Services Register for extra support - Electricity (thousands)	771	859	988
Number of customers on Priority Services Register for extra support - Gas (thousands)	500	575	683
Number of customers that received the Warm Home Discount rebate (thousands)	256	261	317

Supporting communities

Purchases of goods and services (million £)	4,553	5,282	6,002
Supply chain spend with SMEs	25.1%	21.7%	21.7%
Supply chain spend with diverse businesses [^]	1.8%	1.9%	2.1%
Apprentices trained to support Hinkley Point C project to date (Hinkley Point C and contractors)	756	922	1,131
Donations to non-profit organisations (£)	239,695	239,647	113,802

*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.

[^] Diverse businesses refer to businesses where the ownership is self-declared as having one or more of the following characteristics: Black, Asian, Minority Ethnic (BAME), Disabled Persons Lesbian, Gay, Bisexual, Transgender (LGBT) or Women.



Discover more about how we are helping Britain achieve Net Zero at [**edfenergy.com/sustainability**](https://edfenergy.com/sustainability)

