



**FROM GRID TO
MARKET, WE'RE
POWERING
FLEXIBILITY**

Helping you save, earn and
lower your carbon emissions



**MAXIMISING
RETURNS BY**
*POWERING
FLEXIBILITY*

Helping you save, earn and
lower your carbon emissions

ENERGY FLEXIBILITY AT A GLANCE...

Energy flexibility refers to the ability to adjust both the timing and amount of electricity usage or generation to better match supply and demand on the grid.

As intermittent renewable energy sources, such as wind and solar, become more integrated into the energy system, the electricity supply grows more variable. Flexibility helps to balance these fluctuations, ensuring that renewable energy is efficiently utilised, stored during periods of excess, and dispatched when demand is highest.



ENERGY FLEXIBILITY EXPLAINED...

We're constantly seeking new ways to assist our customers in cutting costs and lowering their carbon emissions.

What does flexibility mean for you?

Save and earn: Flexibility means cost optimisation. The solution can adjust EV charging during off-peak hours, balance energy between grid and battery storage, and ensure the EV fleet operates at maximum efficiency without waste — leading to significant cost savings while maintaining high operational standards.

Real-time control and optimisation: Make the most of renewable energy by storing surplus power when it's abundant, helping to decrease reliance on fossil fuels. You can also return energy to the grid when renewable supply dips, meeting demand needs.

Future-proof flexibility: Stay ahead of technological changes and industry regulations with a system that's ready for tomorrow.



Save
and earn



Real-time
control



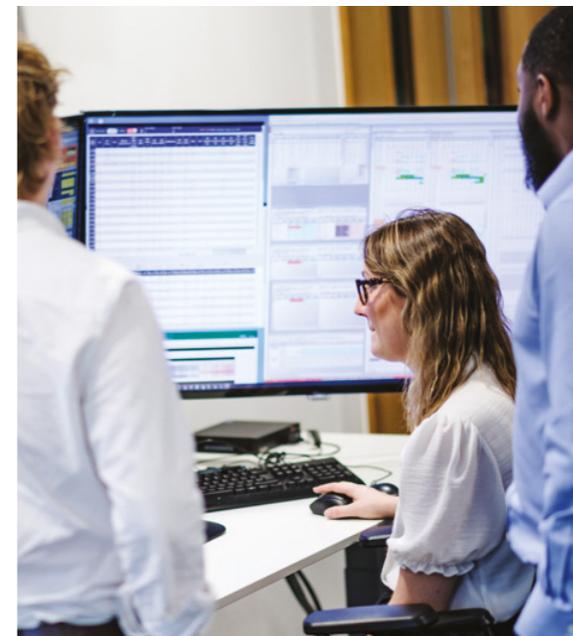
Future
proof

ENERGY FLEXIBILITY OUR COMMITMENT..

EDF is dedicated to driving the transition to a flexible, low-carbon energy system. As more renewable energy is built on the system, the need for flexibility is only going to increase.

The development of flexibility solutions is essential to help overcome increasing capacity and intermittency challenges in our evolving energy system, and help our transition to net zero in Great Britain.

EDF recognised early on that flexibility would be essential. Since launching PowerShift in 2018, we have invested significantly to unlock its full potential for our customers.



POWERSHIFT

EMPOWERING SMARTER ENERGY MANAGEMENT

What is our Virtual Power Plant (VPP)?

PowerShift brings together your behind-the-meter assets, such as Electric Vehicles (EVs), batteries and demand side response, into a coordinated network that actively participates in energy markets. By participating alongside our grid scale flexibility portfolio (such as grid connected battery storage) in our VPP, we help you optimise asset performance, unlock new revenue streams, and contribute to grid stability and sustainability.

This innovative solution allows you to maximise the value of your energy assets, reduce costs, and support grid stability. Whether you're a renewable generator, developer, business, or energy user, our VPP enables you to maximise returns from the energy market and contribute to a sustainable future.



24/7 MONITORING, OPTIMISATION, AND TRADING

Our dedicated 24-hour trading desk actively monitors energy markets in real time, ensuring your assets are optimally dispatched.



VALUE CREATION

We unlock additional value from your assets by optimising market participation and trading strategies, generating new revenue streams. Our expertise in large grid connected portfolios helps optimise domestic and business flex assets as well.



INDUSTRY REPRESENTATION AND STAKEHOLDER ENGAGEMENT

We represent your interests with key industry stakeholders like Ofgem, National Grid ESO, and Distribution System Operators, shaping the policy and regulation that matter to you.



TRUSTED PROVIDER

As a trusted provider, we offer products and services that benefit you. Comprehensive reporting ensures transparency on asset performance and value generation, giving you peace of mind.

UNLOCKING FLEXIBILITY THROUGH POWERSHIFT



CLICK A SOLUTION TO DISCOVER HOW EDF IS POWERING FLEXIBILITY...

- Grid Scale Storage Flexibility
- Thermal Flexibility
- Renewable Flexibility
- Business Flexibility
- Domestic Flexibility



Grid scale storage flexibility

Driving net zero and grid stability

The push for net zero has transformed the GB grid, with rapid solar and wind expansion and a decline in traditional thermal plants, leading to more unpredictable generation.

This has created a fantastic opportunity for large grid connected storage assets like batteries to help smooth grid instability. Energy storage captures surplus renewable energy, reducing reliance on fossil fuels and promoting cost-effective, eco-friendly power use.

At EDF, we optimise energy storage assets to maximise returns and support grid balance. As both the largest battery optimisation provider and renewable PPA off-taker, we offer innovative solutions to your storage projects whether they are stand alone, or co-located with renewable generation.



Grid scale storage flexibility

Powering flexibility, maximising market returns

EDF leads the industry in providing optimisation services for large-scale flexible assets, combining deep market expertise with cutting-edge technology to maximise revenue potential.

We optimise battery assets in all available markets, including wholesale markets, ancillary services and the balancing mechanism maximising customer revenue. We have a substantial portfolio of contracted and operational batteries utilising the latest in technology and data science combined with our expert trading teams.

EDF offers a range of commercial arrangements, tailored to suit different levels of risk appetite and the need to secure revenues.



BATTERY STORAGE TECHNOLOGY

plays a crucial role in enabling homes and businesses to use green energy consistently, even when solar and wind power are not available.



CO-LOCATED ASSETS,

are highly valuable for battery sites with solar or wind generation, allowing them to store energy for periods without sun or wind. By storing renewable energy, batteries support the broader use of intermittent renewables on the same site.

Thermal Flexibility

Maximise the performance of your thermal plant

EDF offers gas peaking optimisation services aimed at maximising revenue through cutting-edge technology, expert trading, and real-time market intelligence.

As a registered gas and power supplier in the GB market, our trading teams work to secure the best opportunities in key markets during peak times, ensuring gas peaking plants perform at their highest potential.



GAS PEAKERS,

as part of flexible generation projects, provide quick-response electricity generation to meet fluctuating demand and ensure grid stability for relatively long periods if necessary.



Renewable Flexibility

Additional value for your PPA

EDF is the market leader in Power Purchase Agreements (PPA) for renewables. When we purchase power from wind and solar assets, we also offer additional services.

Balancing Mechanism (BM) expertise

When there's excess wind or solar generation, National Grid needs to balance the system. Through the BM, generators can be paid to reduce output during these times. EDF is your trusted partner, navigating the commercial and regulatory complexities to maximise this revenue stream for your assets.

Trading and Control Point services

Large generating assets must appoint a Trading and Control Point to manage their interactions with National Grid, as required by Grid Code. These roles are highly regulated and complex. Partnering with EDF gives asset owners access to our industry-leading expertise, ensuring smooth management of these responsibilities, along with seamless compliance and operational efficiency.



Business Flexibility

Maximise energy savings and flexibility, unlock new revenue streams

EDF are the number one large business energy supplier in Great Britain, uniquely positioned to help you balance your supply and demand while maximising flexible energy capacity to unlock new revenue streams.

We work with our expert in house teams who are industry leaders in flexible asset optimisation, to deliver a variety of flexibility solutions, including bespoke projects crafted specifically for your business.

How can businesses take part?

Our EDF Business Solutions Account Managers will collaborate with you to identify your behind the meter asset opportunities and recommend the best flexible solution tailored to your needs.



CAPACITY MARKET (CM)

A Capacity Market (CM) Agreement with EDF will allow us to generate fixed revenue from your assets, providing they are available to support National Grid if required.



LOCAL FLEX MARKETS

Local Flex Markets help manage local network restraints. Businesses in specific locations can be paid to flex demand (or generation) at certain times of the day.



BATTERY OPTIMISATION

EDF is an expert in creating value through battery optimisation. We ensure that your asset is optimised in all available markets and structure a contract with you to pass through that benefit.



EV OPTIMISATION

We can optimise the charging of your electric vehicle (or fleet of vehicles) to minimise the cost without impacting your operations.

Domestic Flexibility

How can I participate as a household?

Reducing energy use during peak times is essential for achieving net zero and lowering costs across Britain. EDF offers a range of innovative solutions designed to help customers save money and reduce their carbon footprint.

The [Sunday Saver](#) offer encourages customers to shift energy use away from peak times, offering free electricity on Sundays. We are also running several innovative trials, including [Smart Charge](#) which automates low-cost, smart charging of electric vehicles during off-peak periods to minimise both costs and carbon emissions. [HeatSmart](#) offers smart controls for heat pumps, optimising energy consumption based on tariffs and weather forecasts to save cash and carbon. Through [Sunshine Saver](#), residents with solar panels and batteries can maximise self-consumption and even generate revenue by exporting excess energy.



Domestic Flexibility

Empowering homes to drive grid efficiency

Demand Side Response is able to provide a similar service to grid as an increase in generation.

At a residential scale the level of response is relatively small, but in the aggregate across many thousands of customers we are able to create a Virtual Power Plant (VPP), and access new revenue streams for our customers.



EV OPTIMISATION

Load shifting away from the evening peak can generate value for customers not already in two-rate tariffs. This allows customers to participate in load shifting behaviour whilst retaining the benefits of a single-rate tariff. We can ensure you have the level of charge in your EV for when you need it.



RESIDENTIAL BATTERIES

Small-scale domestic batteries can be charged up when power prices are low, and provide power to the home throughout the highest-priced portions of the day. In the home setting, batteries pair really well with solar PV on your roof, sucking up excess solar production on your house for you to use later.



HEAT

With the UK's housing stock needing to decarbonise rapidly over the coming decades, smart scheduling of Air Source Heat Pumps to avoid the evening peak, and the ability to respond at short notice to market signals can return significant value to residential households.



RESIDENTIAL HOUSEHOLD DEMAND SIDE RESPONSE

The simplest form of residential flexibility, households can reduce their consumption at the boundary meter in order to demonstrate demand response during peak times.

Domestic Flexibility

Saving customers cash and carbon

EDF partnered with Pod to realise Flexibility value from residential and commercial charge points, for example by shifting charging from the peak of the day in early evening to later at night. This value is then shared with the customer, either as a fixed monthly payment or a discounted unit rate in their tariff.

EDF's Virtual Power Plant, PowerShift, maximises the value of the asset by combining value from the wholesale power market, local flex markets and the Capacity Market, EDF are able to maximise the value of the asset. The customer is able to interact with Pod via their app, meaning that the customer is able to specify what charge level they want their vehicle to be at, and by when. Currently EDF and Pod are offering this service to approximately 1,000 customers on EDF supply. However, the development of Virtual Trading Parties means that we will be able to also provide this service and create value for customers not supplied by EDF.



FLEXIBILITY SERVICES THE NEXT STEP...

Ready to transform your energy management?

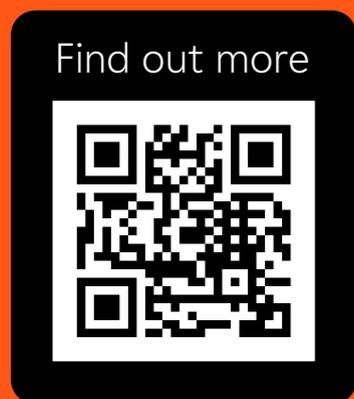
Whether you're a homeowner, asset owner or a business, your energy choices matter. We have extensive experience in helping customers to maximise their flexible assets and energy usage.

EDF can partner with like minded organisations to leverage the capabilities of our Virtual Power Plant, and deliver value and reduce carbon by optimising your network of home or business flexible assets.

Together, we can build a sustainable, flexible energy system that benefits everyone.

[edfenergy.com](https://www.edfenergy.com)





FROM GRID TO MARKET, WE'RE *POWERING FLEXIBILITY*

Discover more about how we're helping our customers save, earn and lower their carbon emissions.

edfenergy.com

EDF Energy Customers Ltd with registered number 2228297. EDF Energy 1 Limited with registered number 3986835.
Registered offices at Nova North, 11 Bressenden Place, London, SW1E 5BY. Incorporated in England and Wales. EDF Energy 1 Limited acts as agent of EDF Energy Customers Ltd for the purposes of collecting all payments in connection with its supply contracts. The responsibility for performance of supply obligations rests with EDF Energy Customers Ltd.

