

Enel X

Virtual Power Plant

Optimisation for your BESS



Enel X's Virtual Power Plan (VPP) helps you unlock the full potential of your behind-the-meter BESS, whether your goal is revenue, resilience, or sustainability.



VPP for Investors

If de-risking your investment and achieving net profitability is your priority, this requires energy markets access, regulatory knowledge and specialist expertise.

With Enel X, you get transparent and achievable financial forecasts built on hard data, market insights and technical excellence. We help you to accelerate the return on your investment by maximising revenue generation and cost saving opportunities for your asset.



VPP for Technocal Teams

If your BESS investment is to provide operational resilience and business continuity in the event of a power failure, it is critical that the primary function of your asset is not compromised. We take a partnership approach, ensuring that your operational needs and the lifetime performance of the asset are non-negotiable. The Enel X Flex VPP is designed to create added value, not added disruption.



VPP for Shareholders, Employees and Customers

Your BESS investment attracts high expectations from management, shareholders, employees and customers to maximise the commercial and environmental benefits and avoid unintended outcomes and disruption. Our UK team are specialists in energy markets, regulatory affairs and asset optimisation. By ensuring your BESS is in the right market at the right time, we help you to generate a new source of income that can be used to fund additional decarbonisation projects, maintain a more competitive cost base and provide better value to your customers.

Market access and optimisation

Battery energy storage asset owners face growing complexity in forecasting and achieving a strong return on investment. If your BESS is greater than 1MW, either standalone or aggregated, with the ability to export to the grid and located behind the meter, multiple value streams become available. Enel X Flex simplifies this by ensuring your asset participates in the most suitable NESO energy flexibility programmes based on your operational profile.

At the heart of our Virtual Power Plant is Enel X Flex, our optimisation technology. It connects real-time asset data, market forecasts and operational constraints to maximise value across flexibility markets, ensuring your asset is always in the right market at the right time.

INPUTS

Asset real time conditions

Asset availability

Production forecasts

Physical constraints

Warranty conditions

Market price forecasts

Market volume forecasts

Weather conditions

Enel X Virtual Power Plant

Powered by Enel X Flex optimisation engine

OUTPUTS

Shift consumptions to low cost periods

Reduce reliance on the grid

Provide back-up power to maintain critical loads

Enable the penetration of renewables

Access to grid services, e.g. Demand Response

Minimise curtailment, generate new revenue streams

Sell surplus power on the electricity market

You can choose between manual participation by your local team or remote management of your asset from **Enel X's Network Operations Centre**. Either way, you remain in full control at all times.



Choosing the right VPP



Energy Market Expertise

Enel X has managed UK market access since 2009, giving your asset a proven route into complex grid programmes.



Technology

The Enel X Flex optimisation engine powers our Virtual Power Plant, maximising value across multiple markets.



Regulatory Expertise

We combine hands-on experience with active regulatory engagement to keep you ahead of changing market rules.



Operational Teams

Our trading and operations experts monitor opportunities in real time, ensuring revenue agility.

Your path to revenue:

Gather your data – asset details, operational profile, constraints.



We analyse & model – combining advanced optimisation with UK market expertise.



You earn revenue – clear forecasts, optimised participation, ongoing support.



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