

Managing and optimising flexibility

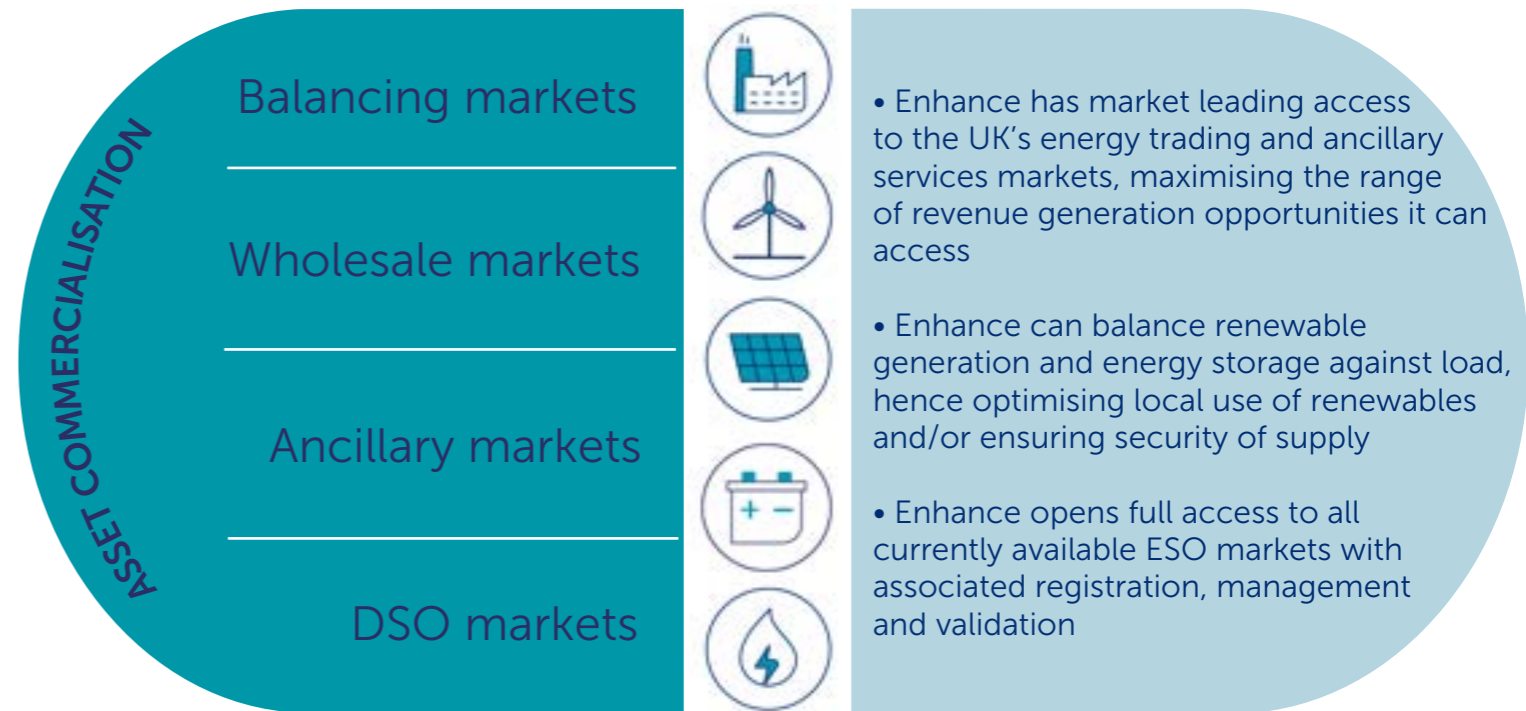
SSE Enhance



Unlocking value for flexible energy assets

SSE Enhance supports clients in their Net Zero ambitions whilst unlocking the financial benefits of flexible assets.

Revenue optimisation maximising the value of flexibility



Why Enhance?

SSE Energy Solution's in house developed Enhance software is used to send optimised dispatch schedules to flexible assets under its management.

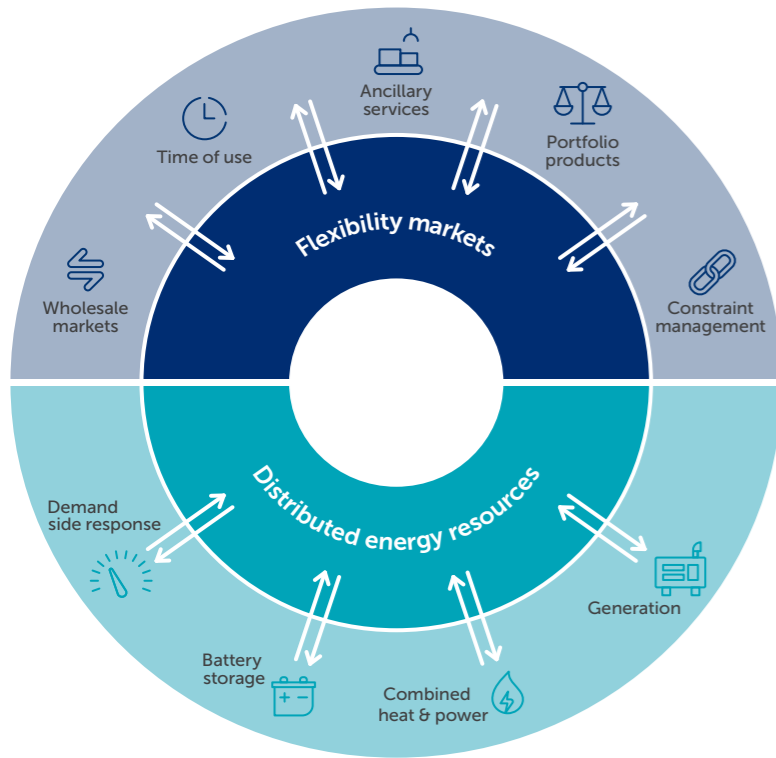
The Enhance solution uses cutting edge technology developed by SSE's Digital Service team.

Our platform is a pioneering solution to support the evolution of the energy system.



SSE Enhance

We've developed market leading solutions encompassing the latest technology and our proprietary algorithms to ensure SSE Energy Solutions can meet your objectives, such as revenue generation, cost reduction, security of supply and carbon reduction.



Delivering your energy optimisation solutions

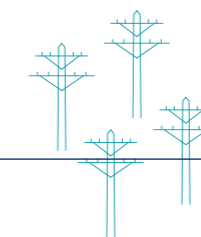
- SSE will help you secure new revenue streams, without disrupting your business operations.
- SSE will monetise your energy flexibility using our SSE Enhance platform, which will calculate the exact amount of power at the precise time in the most profitable energy marketplace.
- SSE use the power of technology to integrate with your assets to seamlessly deliver services to both the National Grid and DNOs.

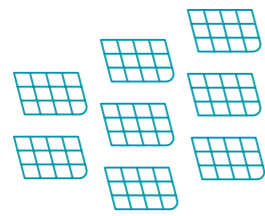
Benefits of partnering with SSE Energy Solutions

- Extensive experience in operating a broad range of assets across both Transmission and Distribution Networks, participating in reserve, frequency, security and balancing.
- Chosen partner to manage and optimise over 750MW for energy storage.
- Aggregate flexibility to provide a route to market that may not be possible in isolation.
- SSE Energy Solutions are a driving force advocating a greener future. Our solutions will accelerate the transition to net zero.

Real-time trading and carbon reduction

- Generate cost savings and revenues streams for your flexibility and asset operations.
- Supporting the National Grid by reducing peak demand and supporting renewable output.
- Deliver carbon savings by working with SSE to improve your site resilience, efficiency and infrastructure.





Market leading solution

SSE Enhance can unlock flexibility

Features	Capabilities
Asset Communication	<ul style="list-style-type: none"> Real time and edge scheduling Field communications installation and management Hardware specifications
Trading/Trade Optimisation	<ul style="list-style-type: none"> Managing over 11GW under SSE plc Industry leading market capability Access to all markets and services Machine Learning and AI Aggregation of assets
Grid Connectivity	<ul style="list-style-type: none"> Connectivity to TSO/DSO systems EDL & API connectivity Performance data feedback
Customer Experience	<ul style="list-style-type: none"> Financial reporting Customer dashboard Real time tracking Alerting services

We're in an era where digital solutions are needed to keep pace with evolving technology.

Machine learning, AI, digital twins are just some of the tools that SSE employ to support its decision making

SSE Energy Solutions are at the forefront of digital solutions, with technological capability to support human ingenuity and solve even the most complex problems.

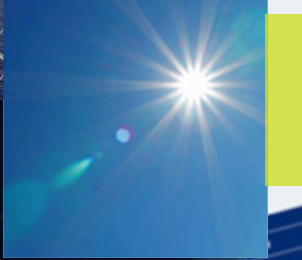
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MANAGING INTERMITTENCY	<p>CHALLENGE</p> <p>The move from controllable coal and gas generation to intermittent wind and solar causes a problem for the energy industry in keeping generation and load in balance.</p>	<p>OPPORTUNITY</p> <p>This provides a significant opportunity for businesses. SSE can help you earn revenue by exploiting your power flexibility to help keep the UK energy system in balance.</p>
ENERGY EFFICIENCY	<p>CHALLENGE</p> <p>Regulations with the goal to reduce carbon are putting significant pressure on businesses to address energy efficiency. Non-energy costs are also increasing in order to accommodate industry change.</p>	<p>OPPORTUNITY</p> <p>With rising energy costs, improvements to energy efficiency can be a significant business benefit. SSE can improve energy efficiency with payment based on energy savings, not an upfront cost.</p>
CARBON REDUCTION	<p>CHALLENGE</p> <p>Carbon reduction can be achieved through the transition to lower carbon technologies. With a myriad of solutions of varying states of technical readiness across electricity, transport and heat, adoption can be fraught with risk.</p>	<p>OPPORTUNITY</p> <p>Through investment in and/or active control of energy assets, SSE can ensure asset performance is optimised, additional revenue streams enabled, and business cases improved. SSE can also provide a green energy tariff or renewable power fed directly by private wire or indirectly via PPA and CPPA.</p>
NETWORK CONSTRAINTS	<p>CHALLENGE</p> <p>Regulated networks cannot build capacity ahead of demand. This impacts a business' ability to increase its energy footprint, whether this be through business expansion or electrification of heat and transport. Network constraints may also prohibit the introduction of additional renewable generation.</p>	<p>OPPORTUNITY</p> <p>Through active control of assets across a site, SSE can minimise such impact. SSE can also deploy network infrastructure and/or interim generating plant on an 'as a service' basis to alleviate bottlenecks.</p>
SECURITY AND QUALITY OF SUPPLY	<p>CHALLENGE</p> <p>The proliferation of intermittent renewable generation across the network makes it harder for the regulated network operator to ensure security and quality of supply.</p>	<p>OPPORTUNITY</p> <p>Through active control of energy assets and deployment of local technologies such as renewable generation and power storage, SSE can improve security and quality of supply whilst providing revenue generation opportunities.</p>
ENERGY COSTS	<p>CHALLENGE</p> <p>Non-commodity (energy costs) are continuing to rise and the impact on energy costs of future regulation and carbon taxation remain uncertain.</p>	<p>OPPORTUNITY</p> <p>In conjunction with its supply business, SSE can adopt your energy assets and provide an energy service where future energy price risk is removed. By optimising assets we can improve your energy efficiency through billing based on energy savings, not upfront costs.</p>



The table on the right side of the dashboard shows system status and metrics. It includes a legend for 'Active Services' and a 'Recent Chart' section. The 'Active Services' section lists various metrics with their corresponding values and colors. The 'Recent Chart' section shows a list of values for different metrics.

Active Services	Value
Frequency	50.5
Active Power	50.4
MW	50.3
MW	50.2
MW	50.1
State Of Energy	50.0
Available Power	50.0