

DSO

DISTRIBUTION SYSTEM OPERATOR

Indian Delegation – UCL

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Long Term Forecasting



What is DFES?

- Distribution Future Energy Scenarios (DFES) are produced annually by us and other DNOs.
- DFES provide an up-to-date outlook of the future energy landscape, to inform network planning.



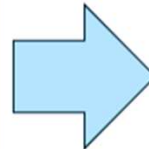
[Distribution Future Energy Scenarios - UKPN DSO](https://dso.ukpowernetworks.co.uk/distribution-future-energy-scenarios)

The screenshot shows a web browser displaying the UKPN DSO website. The URL in the address bar is <https://dso.ukpowernetworks.co.uk/distribution-future-energy-scenarios>. The page features a navigation menu with items like 'Flexibility', 'DER customers', 'Resource centre', 'Local Net Zero', and 'Events'. The main content area has a dark blue header with the text 'Distribution Future Energy Scenarios (DFES)' and 'Data forecasting supporting the drive to lowering emissions'. Below this, there is a sub-header 'Meeting the challenge of a Net Zero energy future' and a main heading 'About our DFES 2024'. A small introductory text states: 'The Distribution Future Energy Scenarios comprises an interactive summary, a technical report, and interactive maps that create a picture of how the energy'. On the right side of the page, there is a photograph of a woman in a black outfit standing next to an electric vehicle charging station, looking at her smartphone.

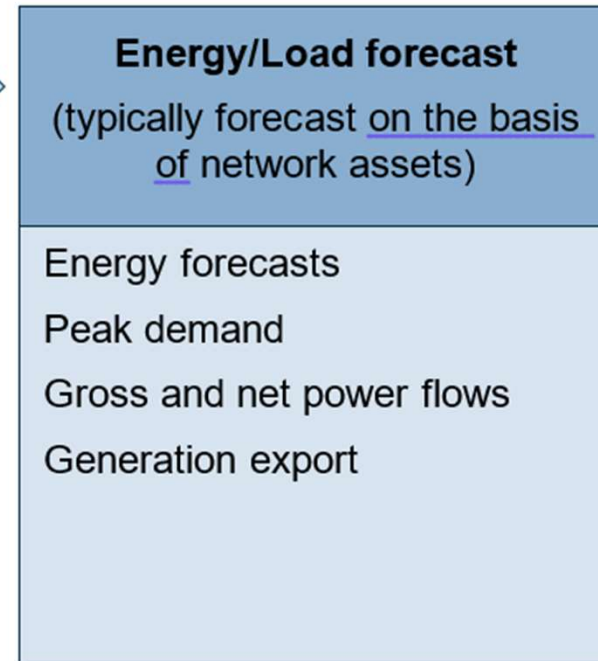
Annual approach to Long Term Forecasting



Distribution Future Energy Scenarios (DFES)



Outputs of our Strategic Forecasting System (SFS)



What does DFES contain?

The DFES provides detailed baseline and spatial forecasts for factors affecting energy demand and technologies critical to achieving Net Zero targets up to 2050.

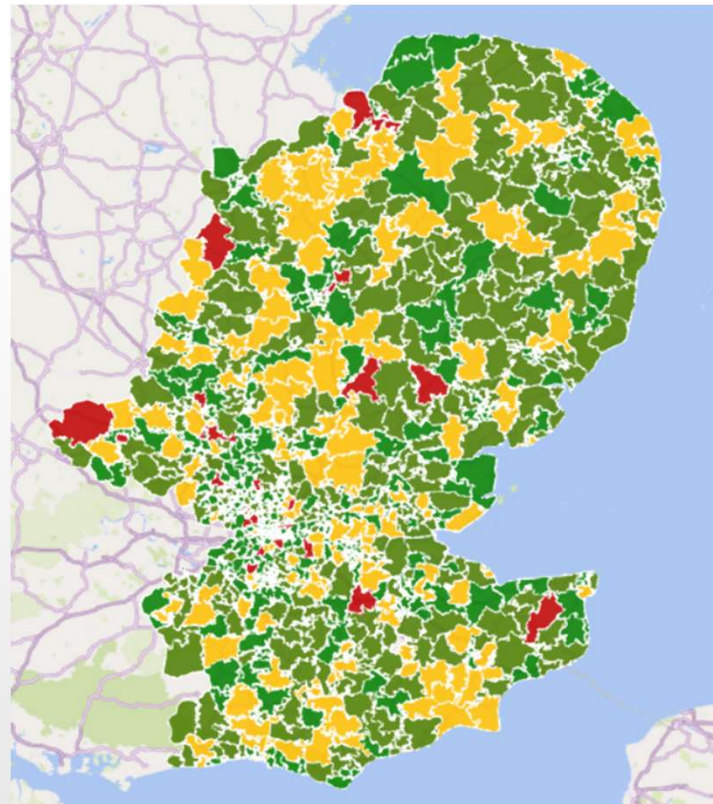
The DFES technology trends are built based on advanced bottom-up modelling developed by our contractors ERM. These models are kept up to date to reflect:

- latest policy changes
- market trends, supply chain constraints, material shortages
- geopolitics (Ukraine war)
- global events (COVID-19 pandemic)

DFES provides input to our Strategic Forecasting System and many Network Insights outputs.



Identify areas with future capacity needs



2030 Capacity Headroom across our Primary sites based on the Consumer Transformation pathway to Net Zero