

Public

Ref: FOI/25/048

National Energy System Operator

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InformationRights@neso.energy

27 June 2025

Dear requester

Request for Information

Thank you for your request for information which we received on 3 June 2025.

Request

You asked us:

I was wondering if you would be able to provide me with/ direct me to where I might be able to find a prospective percentage breakdown of energy sources showing future predictions of where the UK electricity grid is headed in the future (2035 to 2050). I.e. what percentage of the grid will be wind, solar, natural gas, nuclear etc.

Our response

We confirm that we hold information in scope of your request.

NESO's Future Energy Scenarios is an annual report presenting research and analysis of the energy landscape. FES 24 outlines three different pathways for the future of the whole energy system to 2050: Holistic Transition, Electric Engagement, and Hydrogen Evolution (and a counterfactual). Each pathway considers how much energy we might need and where it could come from, to build a picture of the ways in which Great Britain could reach Net Zero by 2050. All FES 24 documents are available here: [FES Documents | National Energy System Operator](#). You may be interested in Tab BD:ES1 of the [FES 24 data workbook](#) which provides electricity supply values. You can filter by 'Pathway' (e.g., Five Year Forecast), 'Variable' (Generation) + 'Type' (Gas) to view the projected electricity generation by type in TWh for years 2023 – 2029. FES 2025 is scheduled to be published on 14 July 2025 and will include a Ten-Year Forecast.

The Clean Power 2030 report (CP30 Report) is NESO's advice to Government on how Britain can achieve clean power by 2030, provided to Government on 5 November 2024. NESO developed a range of pathways, providing analysis of the location and type of new investment and infrastructure needed to deliver clean power by 2030. The CP30 Report and supporting documents are available online: [Clean Power 2030 | National Energy System Operator](#).

This concludes our response to your request.

Next steps

You can ask us to review our response. If you want us to carry out a review, please let us know within 40 working days and quote the reference number at the top of this letter.

If you are still dissatisfied after our internal review, you can complain to the Information Commissioner's Office (ICO). You should make complaints to the ICO within six weeks of receiving the outcome of an internal review. The easiest way to lodge a complaint is through their website: www.ico.org.uk/foicomplaints. Alternatively, they can be contacted at: Wycliffe House, Water Lane, Wilmslow, SK9 5AF.

Thank you for your interest in the work of the National Energy System Operator (NESO).

Regards,

The Information Rights Team, National Energy System Operator (NESO)