

TRANSMISSION

REACT - Smart Planning for a Decarbonised Energy System

Objective

REACT, Rapid Evaluation Areal Connection Tool, aims to revolutionise transmission system planning by tackling delays and uncertainty in the grid connection process, which currently slow down the rollout of Net Zero technologies. By combining advanced spatial planning tools and predictive models, REACT seeks to improve transparency, accelerate decision-making, and help network operators prioritise the most impactful reinforcements. The result: a faster, smarter, more cost-effective delivery of the clean energy infrastructure needed for a sustainable future.

Screenshot taken from Release 1 of REACT



The Digital Solution

REACT is an intelligent, interactive tool that helps planners navigate the energy transition. It offers live, multi-layered mapping and predictive insights aligned with NESO's 2025 reforms, assesses the viability of future projects, and supports proactive decision-making through

Impact & Future Value

REACT streamlines transmission planning, helping to accelerate grid connections, reduce costs such as curtailment and TNUoS charges, and enable early stakeholder engagement. Designed for scalability, it supports NESO's 2025 reforms and the Strategic Spatial Energy Plan, paving the way for a GB-wide rollout.

The current release of REACT provides planners with powerful tools including development pipeline tracking against Clean Power 30 targets, layered spatial data on networks and supply centres, and a daily updated map of all grid connections. It also offers insights into customer behaviour and identifies battery

Release 1

The next phase of REACT will introduce advanced features including predictive project viability modelling, zonal capacity planning, dynamic scenario-based views, and mapping of renewable resource potential—offering deeper insights to support strategic, data-driven decision-making.

Release 2

dynamic scenario planning.

project clusters and renewable co-location opportunities.



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