

Article Overview

The New Energy Internet planning timeline spans from immediate connections reform actions in 2026 to strategic network plans extending to 2050, with key milestones for offers, regulatory approvals, and digitalisation initiatives.

Connections Reform and Immediate Actions (2026)

In Great Britain, the National Electricity System Operator (NESO) has updated the connections reform timeline to improve coordination and transparency for electricity connections. Offers for projects are now being issued, with sequencing based on engineering complexity and reassessment needs, allowing some locations to receive offers earlier than others (NESO, April 2026) . NESO's transitional Regional Energy Strategic Plan (RESP), focused on electricity, was published in January 2026, with the full RESP expected by 2028. The Centralised Strategic Network Plan (CSNP) is scheduled for publication in June 2026, guiding network build needs up to 2050 .

Medium-Term Strategic Planning (2026-2028)

Strategic energy planning aims to support Clean Power 2030 and wider decarbonisation. Key steps include:

- o Consulting on demand connections and measures to reduce speculative projects in early summer 2026.
- o Making a late-summer 2026 decision on NESO's enduring RESP methodology.
- o Completing the full RESP and CSNP by the end of 2028, which will outline electricity, gas, and hydrogen network requirements to 2050 .

Long-Term Network Development (2025-2045)

In Germany, the Bundesnetzagentur approved scenario frameworks for electricity and gas/hydrogen networks covering 2025-2037/2045. Transmission system operators (TSOs) have drafted network development plans (NDPs) to ensure reliable, climate-neutral operation, with reference periods extending at least 10 years into the future. These plans coordinate electricity, gas, and hydrogen sectors to support the energy transition and system reliability .

Digitalisation and Smart Energy Integration

The European Commission is implementing the 'Digitalising the Energy System' action plan, adopted in October 2022, with key milestones including:

- o Q3 2022: Preparing interoperability requirements for metering and consumption data.

New Energy Internet Planning Timeline

- o Q1 2023: Establishing the Smart Energy Expert Group and Data for Energy (D4E) working group.
- o Q4 2023: Promoting a code of conduct for energy-smart appliances to enable interoperability and demand response participation.
- o July 2024: Publishing guidance for EU countries on national implementation of technical rules .

Summary Timeline

YearKey Milestone2026NESO connections offers issued; Transitional CSNP published; RESP methodology decision2026-2028Full RESP and CSNP finalized; consultation on demand connections and battery project management2025-2037/2045Bundesnetzagentur NDPs for electricity, gas, and hydrogen finalized; long-term network planning2022-2024EU digitalisation actions implemented, including interoperability, smart energy groups, and appliance codes

This timeline reflects a multi-layered approach combining immediate connections reform, medium-term strategic planning, long-term network development, and digitalisation initiatives to enable a flexible, resilient, and decarbonised energy system.

Net­work de­vel­op­ment plan­ning Network development planning will be facing many key challenges in the next few years such as the

The number of countries announcing pledges to achieve net zero emissions over the coming decades continues to

Reflecting the urgency of improving the process for demand connections, we intend to exercise new powers taken in

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Future Energy Scenarios (FES) 2025: Pathways to Net Zero provides an independent view of a range of

Energy Internet, a futuristic evolution of electricity system, is conceptualized as an energy sharing network. Its

Discover NESO's new roadmap to fast-track grid connections, accelerating clean energy

Sze­na­riorah­men und Netz­ent­wick­lungs­plan Strom Die Übertragungsnetzbetreiber (ÜNB) berechnen den Ausbaubedarf für die

On the end-to-end review, we will set out steps for implementation later this year, including consulting on licence

Abstract Energy Internet (EI) envisions a future energy system with sustainable concerns of efficiency,

economy and

Establishing interconnected regional energy internets by linking multiple integrated energy systems enables the

This paper describes the basic features and the key structure of Energy Internet, proposes a hierarchical model, and presents key

Energy internet features are highlighted to enhance efficiency, security and reliability. Energy internet architectures and

This new data, released by DESNZ, is a significant step forward in transparency, enabling all stakeholders to see and

Yet, research on construction delays or planning and permitting does not examine the total project commissioning

REN21 is an international policy network dedicated to building a sustainable energy future with renewables

Web: <https://www.kremgroup.co.za>

