

Energy storage delays grid transformation





Overview

Is grid congestion a bottleneck to the energy transition?

The Netherlands is a striking example of a country where grid congestion has become a major bottleneck to the energy transition, challenging climate targets as well as energy security and affordability, as described in IEA's recent Netherlands 2024: Energy Policy Review.

Does grid congestion pose a threat to energy security & energy transitions?

Grid congestion poses a growing risk to energy security and energy transitions. Addressing this challenge requires action across several fronts. Policy makers must prioritise anticipatory planning and establish regulatory frameworks that incentivise investments in both grid expansions and technologies enabling better use of existing infrastructure.

How does grid congestion affect economic development?

Grid congestion has serious implications for economies and societies by delaying connections to the electricity network and therefore hindering important initiatives such as housing projects and industrial development. It undermines energy security, economic development and clean energy transitions.

How can smart electrification improve the power grid?

In addition, integrating renewables efficiently into the power grid requires modernised infrastructures. Smart electrification strategies include innovative grid management tools, which optimise energy flows, minimise curtailments, and enhance system resilience.



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