

DSO Entity welcomes launch of Expert Panel report on the Iberian Incident

Report illustrates relevance of contribution of distribution system operation for understanding evolving power system dynamics

The Iberian power system incident of 28 April 2025 has triggered reflection across Europe on how electricity systems operate in a context of rapidly increasing renewable generation and growing volumes of distributed energy resources connected at distribution level.

Constructive exchanges during analysis process facilitate shared understanding
DSO Entity acknowledges the impressive work carried out by the Expert Panel and welcomes the constructive exchanges that have taken place between transmission and distribution system operators during the analysis process. This cooperation contributes to a shared understanding of how system operation is evolving as the energy transition progresses.

The report provides relevant insights for DSO operations in decentralised system
As illustrated in the report, operational data provided by DSOs covering the majority of electricity users confirms that distribution networks actively contribute to maintaining system stability through voltage management and real-time operation of network assets. Prior to voltage collapse, **distribution voltages remained within operational limits** despite significant voltage variations observed at transmission level, supported by established control mechanisms at the **transmission–distribution interface**. Analysis of distribution-level measurements also indicates that **demand behaviour reflects voltage variations** and that **distributed generation remained largely connected** during the period preceding the system collapse, while acknowledging limitations in real-time visibility of smaller distributed resources.

These observations highlight the **growing relevance of distribution system operation** for understanding system dynamics in electricity systems characterised by increasing volumes of distributed generation, flexible demand and evolving market conditions. The experience gained through the analysis confirms the importance of **strengthening coordination between transmission and distribution system operators, further enhancing observability of distributed energy resources, strengthening voltage management across network levels and ensuring that incident analysis processes can capture relevant operational insights across all voltage levels.**

Cooperation across voltage levels needed to maintain high level of security of supply
This reflection comes at an important moment for the evolution of European frameworks related to demand response, system operation, grid connection and incident investigation methodologies. Ensuring that these frameworks adequately reflect operational realities across all network levels will contribute to **maintaining a high level of security of supply** while enabling efficient integration of renewable and distributed energy resources.

DSO Entity remains committed to supporting cooperation between distribution system operators and working closely with ENTSO-E, ACER, the European Commission to strengthen coordination, improve data exchange and contribute technical expertise to the continued development of Europe's electricity system and related regulation.

Read ENTSO-E's Report [“Grid Incident in Spain and Portugal on 28 April 2025”](#)

For any questions in relation to DSO Entity's reaction on the paper, please contact the Secretariat (Carlos.castel@eudsoentity.eu)