

OverviewGrid conditions in SpainTimelineEffectsPower restorationInvestigations of potential causesMisinformationReactionsOn Monday, 28 April 2025, at 12:33 CEST (11:33 WEST; 10:33 UTC), a major power blackout occurred across the Iberian Peninsula affecting mainland Portugal and peninsular Spain, where electric power was interrupted for about ten hours in most of the Peninsula and longer in some areas. The power cut caused severe difficulties in telecommunications, transportation systems, and essential sectors such as emergency services

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On April 28, 2025, the entire electrical system of Spain and Portugal shut down. Apart from the islands, which operate on separate grids, both countries -- as well as parts of southern France connected to ...

But the sunlit uplands of solar have begun to overheat. Spain has built so much solar capacity that at certain times of day it produces far more electricity than it needs. Prices have ...

The sudden loss of large-scale solar generation in southwestern Spain caused a sharp drop in system frequency, which in turn triggered protective mechanisms in other generators" under ...

Variable generation, like wind and solar, has not yet been definitively tagged as the source of the blackout. However, an honest look at the situation demonstrates that Spain and ...

Insufficient grid connections mean that Central Europe and Northern Europe cannot benefit from cheap, competitive solar power from the Iberian Peninsula, says Joan Groizard, Spain's ...

Over the course of 2024, installed solar photovoltaic power capacity experienced the greatest increase within the peninsular electricity system, adding almost 6,000 MW to the power generation fleet.

At 12.33 pm, the Spanish power grid experienced a loss of generation in the south-west of the country. Most likely, these were solar power plants, but the operator is not sure yet.

In the case of the blackout in Spain, it's possible that having a lot of power on the grid coming from sources without inertia made it more possible for a small problem to become a much ...

Investors and power companies said their doubts about the adequacy of the Spanish electricity system had been confirmed by the blackout.

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