

Kongres Container

Eastern European Solar Grid-Connected System



Overview

Which countries synchronise their electricity grids with the European Energy Union?

A Historic Milestone for the European Energy Union On 9 February 2025, Estonia, Latvia, and Lithuania successfully synchronised their electricity grids with the European power system. This marks a major step towards energy independence for the Baltic States, permanently severing their reliance on the Russian power system.

Will solar power be a challenge for Europe's grid?

Solar PV penetration in the grid is accelerating faster than ever: in 2021 we installed the most solar power in Europe's in history and the annual market growth is set to continue exponentially. By 2025, solar will be the leading installed energy capacity in Europe, according to the IEA. This will represent a challenge for the grid.

What is Solarpower Europe's grids & flexibility workstream?

SolarPower Europe's Grids & Flexibility Workstream is a group that unites actors from diverse backgrounds, fostering collaboration to develop and implement the best solutions to accelerate and enable solar PV deployment. This approach sets it apart from other European associations.

Does Europe need a new electricity grid?

The infrastructure works required are substantial: 670 km of new transmission lines are to be built and 660 km of existing lines replaced. This shows that with the political will and the right support in place, grid developments can move rapidly. Europe not only needs to expand its electricity grid, but also modernise its ageing infrastructure.

How important is grid capacity for Europe's energy transition?

The success of Europe's energy transition critically relies on developing

enough grid capacity. Constraints are already evident in the form of grid connection queues and congestion, incurring significant costs and risk holding back the accelerating energy transition.

Will European TSOs be able to accelerate grid development?

Several TSOs have ambitious grid expansion plans, proving the feasibility of rapid grid development if there is political prioritisation. More bold action on grids will be needed across Europe in the coming years, however, to unlock the benefits of transitioning rapidly away from fossil fuels.

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