

Vilnius EK SOLAR power storage project connected to the grid



Overview

What is the largest 'private' Bess project in Lithuania?

IPP E energija Group has started building what it claims is the largest 'private' BESS project in Lithuania, a few weeks after the Baltic region decoupled from Russia's electricity grid. The 120MWh battery energy storage system (BESS) project near Vilnius, the capital of Lithuania, will come online by the end of 2025.

How much does the EU spend on energy storage in Lithuania?

In late 2024, the EU approved a €180 million (US\$188 million) support package for over 1.2GWh energy storage in Lithuania, covering a maximum of 30% of the projects' capital expenditure costs via a competition auction set to conclude before the end of 2025.

How will Lithuania achieve the instantaneous electricity reserve of Isolated mode?

The instantaneous electricity reserve of isolated mode for Lithuania will be ensured by the electricity storage facilities system with the 200 megawatts (MW) and 200 megawatt-hours (MWh) capacity. If needed, the high-capacity reserve storage facilities will start supplying power immediately – within 1 second.

What is E-Energija group's Vilnius Bess?

The Vilnius BESS is designed to address these dynamics, ensuring a reliable energy supply for consumers. E-energija Group's initiative reflects a practical approach to integrating renewable energy into Lithuania's grid, with the system set to play a vital role in balancing supply and demand once operational.

What is Lithuania's first commercial battery storage facility?

Located near Vilnius, this project will be the country's first commercial battery

storage facility and is expected to increase Lithuania's total storage capacity by approximately 50%. The system is scheduled to begin operations by the end of 2025.

How does local system integrator supply the energy storage solution?

Local system integrator will supply the energy storage solution, using battery units from CATL, power conversion systems (PCS) from Power Electronics, and its own proprietary energy management system (EMS), NordNest.

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