

PDEOZE PowerContainer

Latvia s communication base station hybrid energy generation 3 44MWh



Overview

When will battery energy storage systems be installed in Latvia?

The most recent update regarding BESS installations is that in Tume and Rēzekne, Latvia's transmission system operator "Augstsprieguma tīkli" (AST) in June 2025 installed battery energy storage systems with a combined capacity of 80 MW and 160 MWh, which will undergo testing until October 2025.

Who is responsible for the energy transition in Latvia?

Local authorities are responsible for municipal energy supply and renewable energy projects, with Latvia's energy transition guided by the National Energy and Climate Plan and the Energy Strategy 2050.

Why are energy storage systems important in Latvia?

Energy storage systems are an essential element of Latvia's path towards a sustainable and energy-independent future. The importance of these technologies is being recognized and invested in by a growing number of companies and public institutions.

What is the main source of renewable electricity in Latvia?

Hydroelectric power is the main source of renewable electricity in Latvia, followed by solar, wind and biomass cogeneration plants. In 2024, solar power in Latvia grew over 3.1 times to 6.7% of total electricity, becoming the third-largest source, while wind reached a record 38 GWh and hydropower, despite a 16% drop, still provided 54%.

Is hydropower a good option for Latvia's low-carbon energy portfolio?

Despite these fluctuations, hydropower remains a solid backbone of Latvia's low-carbon electricity generation. Looking forward, diversifying into wind, solar, and potentially nuclear could provide Latvia with a more balanced and resilient green energy portfolio.

Are new wind farms a good investment for Latvia's energy security?

I am pleased that the bar has been set high for developers of new wind farms, which also plays an important role in the context of Latvia's energy security," said Climate and Energy Minister of Latvia, Kaspars Melnis. Given the total investment in the project, the OP Corporate Bank provided loan financing.

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Discover how hybrid energy systems, combining solar, wind, and battery storage, are transforming telecom base station power, reducing costs, and boosting sustainability.

Their hybrid configuration now achieves 94% availability during monsoon seasons - outperforming pure grid solutions by 18 percentage points.

Latvia's transmission system operator Augstsprieguma tīkls (AST) has commissioned two utility-scale battery energy storage systems (BESS) in Rezekne and Tume, ...

The Ipandee hybrid PV Direct Current (DC) Power Supply System is a green energy power supply solution specifically designed for communication operators to save energy, reduce carbon ...

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As the Baltic states of Latvia, Lithuania, and Estonia prepare to decouple their combined electricity grid from Russia, in favor of Europe, in February 2025, Latvia has activated its first utility-scale BESS.

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In a separate press release, Chinese solar inverter manufacturer Hoymiles said it provided the 3.44MWh BESS enclosures and 3,450kW power conversion system (PCS) inverters on the AC side.

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Latvia's hydro-dominated electricity system provides a favourable starting point to use clean electricity to decarbonise other economic sectors and meet the target of 57% renewables in ...

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