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Latvian portable energy storage power supply

Overview

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With an investment of €6 million, AJ Power Corporate Group has installed battery energy storage systems (BESS) at three of its large-scale solar parks in Valmiera, Aizkraukle, and Ilūkste. These systems will be integrated into the national power grid and are set to begin operation in the coming.

On November 1 Latvia’s largest wind energy producer Utilitas Wind opened the first utility-scale battery energy storage battery system in Latvia with a total power of 10 MW and capacity of 20 MWh in Targale, Ventspils region. This autumn, the Battery Energy Storage System (BESS) will be connected.

Latvia state-owned utility and power generation firm Latvenergo intends to deploy 250MW/500MWh of BESS in the next five years. Latvenergo said it will build the battery energy storage system (BESS) projects in response to increasing demand for flexibility and to synergise with its hydropower.

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.

Therefore, in the generation portfolio of Latvenergo, alongside hydro power plants (installed capacity ~1550 MW), combined heat and power plants (~1050 MW) and solar and wind capacities under development, we planned to build a BESS which will ensure synergy with the generation and sales portfolio.

Latvian power storage manufacturers are reshaping Europe's renewable

energy landscape with cutting-edge battery systems and grid stabilization technologies. Discover how these solutions support solar, wind, and industrial applications while enhancing energy security. Over the past five years. Where is the first battery energy storage system in Latvia?

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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.

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.

Is Latvia ready for power to X & H2?

As can be seen, Latvia is currently focusing mainly on BESS, but research on the potential of power to x or power to H2 in Latvia is also being actively developed. Given Latvia’s high share of renewable electricity, the need for electricity storage technologies will increase significantly.

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The first BESS projects are being implemented in Latvia and at Latvenergo production sites - starting with the smaller-scale BESS at Latvenergo AS CHPP-1 and ...

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Our lithium-ion storage systems store excess energy generated during the day for use at night or during peak demand periods. Offering fast response times, long lifespan, and modular design, ...

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Secure Latvia's power grid with Rolls-Royce's large-scale battery storage, syncing Baltic energy with Europe by 2025.

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These high-power storage technologies have practical applications in power systems dealing with critical and pulse loads, transportation systems, and power grids.

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