Energy storage market latvia

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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 to the Latvian electricity transmission system, contributing. The total project investments amount to EUR7 million.

“This is a historic moment in Latvia’s modern energy sector. We have been actively working on this project for two years and are proud to contribute to strengthening Latvia’s energy security. We are ready to continue our contribution to the development of the energy supply system in line with future challenges,” says Ren?rs Urbanovi?s, Member of the Board of Utilitas Wind SIA.

The largest energy storage battery system will provide energy storage to transfer the generated electricity to users when there is a shortage in the electricity system. The battery system includes six battery containers, three inverter/transformer container and one distribution point container, providing a total electric capacity of up to 20 MWh. To get a better idea of the amount of energy stored, this is enough to power one electric car for 115 000 km, one household washing machine for 19 000 washing cycles or supply almost 3 000 households for one day.

“Alternative sources of electricity generation such as wind and solar are weather-dependent. If there are strong winds in a particular period, this is likely to be the case across the region. This results in a surplus of electricity generated. The opposite is true when there is no wind, when there is a shortfall, but the system we have in place gives us a great advantage – the ability to store ‘excess’ electricity to make up for when there is a shortfall,” comments Ren?rs Urbanovi?s.

The construction of the electricity storage battery system at the Targale wind park is a step towards the development of the frequency market in the region. “Such hybrid parks, combining different forms of renewable energy generation, will become common practice in the future, ensuring a stable, minimally weather-dependent energy supply. 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.

T?rgale, Latvia -- On November 1, 2024, T?rgale Wind Park held its grand opening, unveiling Latvia"s first major energy storage facility. Hoymiles, as a key technology supplier, played a pivotal role in the project.

Managed by Utilitas, Latvia"s largest wind energy producer, this project combines wind energy generation with advanced storage capabilities, setting a new standard for renewable energy infrastructure in the country.

The opening ceremony was attended by key Latvian officials, including Minister for Climate and Energy Mr.

Kaspars Melnis, who highlighted the project"s potential impact on Latvia"s energy landscape and sustainability efforts. "It is essential to build new green energy capacity to ensure the resilience and smooth operation of our energy systems as we prepare for a key transition early next year. We are clearly moving in the right direction," said Kaspars Melnis.

"The T?rgale Wind Park energy storage project addresses a significant challenge in renewable energy--ensuring consistent power availability," explained Ren?rs Urbanovi?s, Member of the Board of Utilitas Wind SIA. "Alternative power sources such as wind and solar are weather-dependent. When strong winds create a surplus, we can now store it, making that energy available when conditions are calm. This provides a vital balance to the grid."

The new energy storage system marks a major advancement for Latvia, which is working to stabilize its energy supply while supporting sustainable development. As the largest energy storage battery system, it not only enhances energy reliability but also significantly contributes to the broader energy security of the Baltic States. Additionally, the T?rgale storage project positions Latvia as a model for balancing market strategies, enabling stored energy to be tapped during peak demand periods.

Hoymiles, a leader in renewable energy solutions, is proud to contribute to the T?rgale Wind Park energy storage project. Our high-performance, reliable, and efficient energy storage systems have been instrumental in its success, reflecting our commitment to "Open Energy for All." Through innovation and technical expertise, Hoymiles continues to support global clean energy initiatives, making sustainable energy accessible to everyone.

Germany-based Rolls-Royce has been awarded a contract to supply two large-scale battery energy storage systems to Augstsprieguma tikls (AST), Latvia"s transmission system operator, with a cumulative output of 80 MW and a storage capacity of 160 MWh.

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