

**SolarInnovate Energy Solutions**

# **Latvian Communication BESS Power Station Model**



## Overview

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Where is the first battery energy storage system in Latvia?

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.

Why did we build a Bess for Latvenergo?

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 of Latvenergo.

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.

Where are Bess projects being implemented?

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 continuing with larger storage solutions, including at Riga HPP and Latvenergo AS CHPP-2. The procurement and selection of suppliers for the latter projects is currently in progress.

Will the Baltic states be connected to the European Grid on 9 February 2025?

The project foresees that the Baltic States will be connected to the European grid on 9 February 2025, thereby reducing security of supply risks and levelling electricity prices in the economic point of view, from the point of view of achieving "green goals", and from the security point of view.

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### Utilitas Launches Latvia's First Utility-Scale Battery System

Nov 5, 2024 · Utilitas, an Estonian renewable energy producer, has launched Latvia's first utility-scale battery energy storage system (BESS) with a capacity of 10 MW/20 MWh in Ventspils. ...

### Modeling and aggregated control of large-scale 5G base stations ...

Mar 1, 2024 · The limited penetration capability of millimeter waves necessitates the deployment of significantly more 5G base stations (the next generation Node B, gNB) than their 4G ...



### Modeling, Simulation, and Risk Analysis of Battery Energy ...

Nov 22, 2024 · Energy storage batteries can smooth the volatility of renewable energy sources. The operating conditions during power grid integration of renewable energy can affect the ...



## Modeling and simulation of Battery Energy Storage System (BESS...

Mar 14, 2016 · For reflecting grid connected operation control strategies, modeling of Battery Energy Storage System (BESS) was studied. The BESS models include two parts according ...



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