

## SolarTech Power Solutions

# Romanian lithium-ion energy storage battery life



## Overview

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Aurora Energy Research foresees double digit internal rates of return for standalone battery energy storage (BESS) projects entering the market as early as 2026, while co-located assets could prove even more promising – especially post 2028 where rising saturation in the balancing markets is.

Romania’s battery storage market is gaining momentum, but it’s not yet ready for takeoff. A recent Aurora Energy Research report reveals strong investor interest and promising early projects, but also highlights some regulatory gaps and unclear market access. Like many countries across Europe.

Transelectrica shows that, on January 1, 2025, the battery storage facilities had a total power of 137 MW and a capacity of 269 MWh. The data of the transmission and system operator show that, on January 1, 2025, 13 battery storage groups are operational in Romania, which have a total installed.

Developer Monsson Group and system integrator Prime Batteries Technology have inaugurated a 6MW/24MWh battery energy storage system (BESS) in Romania, the country’s largest. Monsson inaugurated the 4-hour project in Constanta County this week and is co-located with 35MW of solar PV and a 50MW wind.

Prime Batteries Technology, a portfolio company of InnoEnergy, has been selected to supply a 72 MWh lithium-ion battery energy storage system (BESS) for Hidroelectrica, Romania’s largest renewable energy producer. The battery

system will be deployed at the Crucea Nord Wind Farm in Constanța County.

The project involved the installation of a 36MW lithium-ion BESS with a nominal energy storage capacity of 72MWh, which is designed to balance the energy output of a hydropower plant that operates over 7GW of hydropower. The BESS is expected to reduce internal imbalances in the wind plant, provide. Is Romania a promising battery market in southeastern Europe?

With roughly 100 MW of operational capacity — mostly pilot projects run by a few companies — the market is still nascent. Yet Romania now is one of the most promising battery capacity market in Southeastern Europe, said Filippos Falieros, Advisory Project Leader with Aurora Energy Research. What sets Romania apart is not infrastructure, but timing.

Is Romania's battery storage market ready for takeoff?

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Which Romanian companies are adding Bess to their renewable assets?

Other Romania-based companies, such as Parapet and Waldevar Energy, have told pv magazine that adding BESS to their renewable assets is a top priority. The May edition of pv magazine features an in-depth look at Romania's solar and energy storage markets.

Is monsson developing a lithium-ion battery in Sweden?

Hyden said that Monsson Group is developing similar projects in Sweden in partnership with Swedish lithium-ion battery manufacturer Northvolt. The manufacturer is mainly targeting the EV market but does have a dedicated ESS assembly facility in Poland.

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