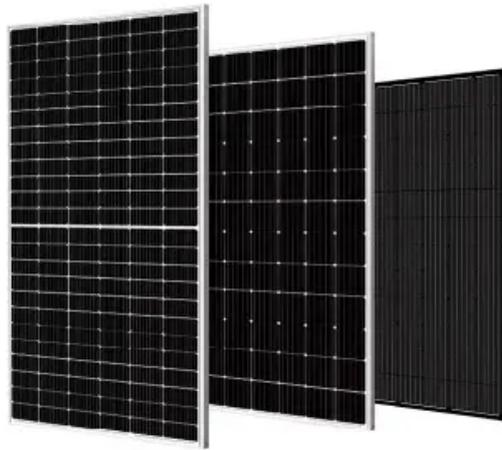


SolarTech Power Solutions

Latvian grid-side energy storage peak-valley arbitrage solution



Overview

In the context of global decarbonisation, retrofitting existing coal-fired power plants (CFPPs) is an essential pathway to achieving sustainable transition of power systems. This paper explores the potential.

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.

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.

Is a retrofitted energy storage system profitable for Energy Arbitrage?

Optimising the initial state of charge factor improves arbitrage profitability by 16 %. The retrofitting scheme is profitable when the peak-valley tariff gap is >114 USD/MWh. The retrofitted energy storage system is more cost-effective than batteries for energy arbitrage.

Is energy arbitrage profitability a sizing and scheduling Co-Optimisation model?

It proposes a sizing and scheduling co-optimisation model to investigate the energy arbitrage profitability of such systems. The model is solved by an efficient heuristic algorithm coupled with mathematical programming.

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