



**SolarTech Power Solutions**

# **Slovakia New Energy Storage**



## Overview

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The concept is called pumped thermal energy storage (PTES) – a technology that converts electricity into thermal energy and, when needed, back into electricity. Simply put, the principle is similar to that of pumped-storage hydroelectric plants, such as Čierny Váh in Slovakia. When there is surplus.

The Connecting Europe Facility for Energy (CEF Energy) is supporting a significant step forward in strengthening Europe's energy security and flexibility. With a grant of more than €2.1 million, the project is carrying out studies to prepare the way for the modernisation and hybridisation of the.

Let's face it—when you think of Europe's energy revolution, Slovakia might not be the first country that comes to mind. But hold onto your solar panels: this Central European nation is rolling out one of the most ambitious energy storage project portfolios for 2025, aiming to become a regional hub.

The first phase of the plant is planned with a capacity of 20 GWh, with trial production scheduled for 2026 and full-scale production starting in 2027. Products will primarily be exported to the EU market, creating 1,300 new jobs in the Šurany region during the initial phase. Gotion High-tech (SHE:.

ŠURANY, Slovakia, Nov. 4, 2025 /PRNewswire/ -- The world is witnessing a new wave of transformation — a revolution that extends far beyond the realm of energy. Slovakia Gotion Gigafactory Milestone Celebration Ceremony of Slovakia's first electric-vehicle battery plant officially began on October 2.

European Commission (EC) funding is supporting a project to integrate battery storage at a pumped hydro energy storage (PHES) plant in Slovakia. The European Union (EU) executive and legislative arm highlighted this week (25 August) that €2.1 million (US\$2.44 million) funding is being used for the. What

is the share of RES-E in Slovakia's electricity generation?

As of the end of 2024, the share of RES-E in Slovakia's electricity generation increased by a percentage point compared to the previous year, reaching 24.2%. Hydropower continues to lead, comprising 66% of the total installed renewable capacity, followed by solar PV at 29% and bioenergy at 5%.

What does SAPI's annual outlook mean for the Slovak electricity market?

SAPI's annual Outlook provides a quantitative description of the Slovak electricity market, focusing on five renewable energy technologies (RES-E) with potential and a foreseen role in the national energy market.

How many MW will the Slovak electricity supply by 2040?

In its future projections, the Slovak electricity TSO SEPS anticipates around 700 MW (with an estimated capacity of approx. 1,400 MWh) of BESS in operation by 2040. This is expected to increase gradually from 5 MW installed in 2022, reaching 260 MW by 2030 and 468 MW by 2035.

How much geothermal energy will Slovakia produce in 2025?

The 2025 Final Updated NECP maintains a target of 4 MW of installed geothermal capacity by 2030, unchanged from both the 2019 NECP and the 2023 Draft Updated NECP. This modest increase, representing the first large-scale electricity production from geothermal energy in Slovakia, is expected to occur in 2029.

Is Slovakia a good place to invest in solar power?

Slovakia has experienced a steadily accelerating trend in installed solar PV capacity. Notably, the additions of 267 MW and 274 MW in the past two years have shifted the business-as-usual trajectory upward.

Can geothermal energy be used for electricity generation in Slovakia?

The main barriers to the deployment of geothermal energy for electricity generation in Slovakia include high investment costs related to the exploration of geothermal boreholes, as well as administrative hurdles tied to environmental impact assessments (EIA) and the permitting process for plant construction and operation.

## Slovakia New Energy Storage

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