

## SolarTech Power Solutions

# Slovenia Energy Storage Equipment Retrofit Plan



## Overview

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State-owned utility and power generator HSE is targeting 800MW of flexibility assets across Slovenia by 2035, including pumped hydro energy storage (PHES) and battery energy storage systems (BESS). How many hydropower plants will Slovenia have by 2045?

Another pumped storage hydropower plant is seen by 2045. It would be able to generate 180 MW and store 2.6 GWh. The Integrated National Energy and Climate Plan envisages an overall 500 MW in gas power plants in Slovenia by the end of the decade.

What is Slovenia's energy capacity?

The reference capacity in the related scenario is 1.1 GW, from a range of 1 GW to 2.4 GW. A small modular reactor (SMR), of 250 MW, would come online by mid-century, the NECP reads. Slovenia plans to maintain a high level of electricity connectivity with neighboring countries, with a goal of more than 80%.

Will Slovenia's only coal power plant close in 2033?

The Fit-for-55 goal of a 55% drop in emissions is for 2030. Slovenia aims to achieve it only by 2033, the deadline it set for quitting the use of coal. But chances are that the country's only coal power plant, Termoelektrarna Šoštanj (TEŠ), and its accompanying mine Premogovnik Velenje, will close within a few years or operate at minimum capacity.

Will Slovenia build a second nuclear power plant?

Slovenia aims to decide by 2028 whether it will build its second nuclear power plant. The government is targeting a 55.4% share of renewables in electricity, 45.2% in heating and cooling and 25.8% in transportation, according to the updated NECP for 2030.

How many MW will a pumped Energy Storage Plant have?

The rest of energy storage includes battery energy storage systems (BESS) of 400 MW in total capability. As for pumped storage hydropower plants, the plan is to add 440 MW by 2030 in both advanced scenarios. One is based on acceleration in renewables and the other on more nuclear energy. The capacity matches the Kozjak project.

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