

# Slovakia wind power storage





## Overview

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Does Slovakia have a potential for wind energy?

According to the Study of Wind Energy Potential in Slovakia, a non-public report prepared by Energiewerkstatt for SAPI and completed in September 2022, Slovakia possesses excellent theoretical potential for wind energy.

Is biomass a viable energy source in Slovakia?

Biomass currently dominates electricity generation from renewables, followed by biogas, solar, and hydropower. Despite its high potential, wind energy remains largely untapped in Slovakia due to its perceived instability and regulatory hurdles.

Should SHPPs be integrated into Slovakia's energy mix?

The integration of SHPPs into Slovakia's energy mix could be a strategic move towards enhancing the country's energy landscape, offering a sustainable and efficient method to increase renewable energy production while contributing to local development and environmental conservation.

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.



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### **ENERGY PROFILE Slovakia**

Onshore wind: Potential wind power density (W/m<sup>2</sup>) is shown in the seven classes used by NREL, measured at a height of 100m. The bar chart shows the distribution of the country's land area ...

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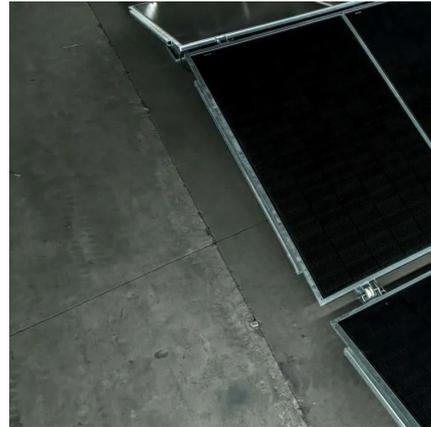




## Chasing the wind in Slovakia

"Wind energy is still almost completely absent in Slovakia and the development of geothermal energy is also very complicated," Ján Karaba, director of the Slovak Association of ...

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