

Tajikistan Solar Power Plant System





Overview

Tajikistan is planning a significant expansion of its solar energy infrastructure in 2025, developing solar electric power stations (SEPS) in every district and city. Can solar energy be used in Tajikistan?

Use of available solar energy in Tajikistan can meet 10-20% of energy demand. Estimated potential of solar energy in Tajikistan is about 25 billion kWh / year. This potential is not used, if not to take into account some of its use for water heating.

What is the power system of Tajikistan?

In Tajikistan, the power system has a total installed capacity of 5190 MW, with 93.9% (or 4973.142 MW) coming from hydro power plants. The remaining 6.1% (or 318 MW) comes from thermal power plants.

How much electricity is generated in Tajikistan?

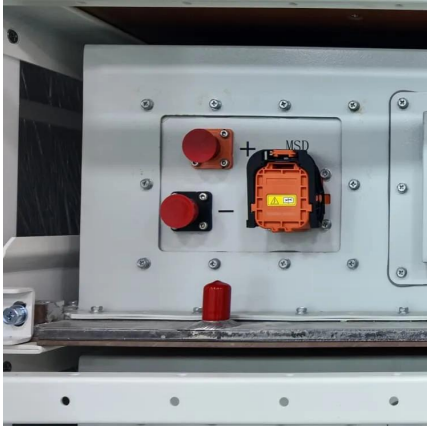
Annual electricity generation in the Tajik energy system, consisting mainly of hydro power plants, is 16.5 billion kWh. It should be noted that more than 98% of electricity in Tajikistan is generated by hydropower plants, including 97% - by large and medium HPP.

What is the solar energy potential of Tajikistan?

The climate of Tajikistan is very favorable for the use of solar energy, with an average of 280-330 sunny days per year. The total solar radiation intensity varies during the year between 280 and 925 MJ/m² in the foothills, and between 360 and 1120 MJ/m² in the highlands. Tajikistan does not have specified solar energy reserves mentioned in the provided text. The text only mentions their coal reserves.



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[Tajikistan signs agreements to build 2 GW of solar power plants](#)

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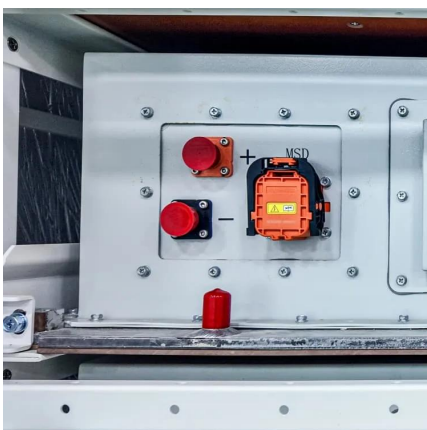
[Solar power prospect in Tajikistan - TAJHYDRO](#)

Nov 14, 2023 · Additionally, solar power can help to reduce Tajikistan's dependence on imported fossil fuels and improve its energy security. Along with significant opportunities, Tajikistan is ...



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Tajikistan energy storage project

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ENERGY PROFILE Tajikistan

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Tajikistan

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