

# Tajikistan Solar Power Generation and Storage Project





## Overview

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Does Tajikistan use solar energy?

The estimated solar potential is about 25 billion kWh/year in Tajikistan. There are about 2,100 to 3,000 hours of solar energy per year. While this potential has not yet been exploited, Tajikistan does utilize some solar resources for water heating purposes. Share of energy types on cooking energy in urban and rural areas of Tajikistan.

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/m<sup>2</sup> in the foothills, and between 360 and 1120 MJ/m<sup>2</sup> in the highlands. Tajikistan does not have specified solar energy reserves mentioned in the provided text. The text only mentions their coal reserves.

How much energy does Tajikistan generate?

The total installed generation capacity of Tajikistan is 6,058 MW (Figure 1) and HPPs account for 88 percent. The 3,000 MW Nurek HPP, with a seasonal reservoir, is the largest generating plant. It generates 50 percent of the total annual energy and is also the balancing plant in the system.

What is the power supply mix in Tajikistan?

Electricity supply mix is dominated by hydropower and, as of today, the countries' generation pool does not include any other renewable power at utility scale. The total installed generation capacity of Tajikistan is 6,058 MW (Figure 1) and HPPs account for 88 percent.



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Oct 15, 2025 · This initiative continues the government's strategy of energy diversification in regions with high solar potential. Rosatom Renewable Energy (Russia) signed a memorandum ...



### [Project Information Document \(PID\)](#)

Nov 10, 2021 · Proposed Development Objective(s) The project development objective is to increase solar electricity generation in Tajikistan through private sector participation

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The project is aligned with the government medium and long term renewable energy target: (i) 100 MW of power storage installed to the CES to increase renewable energy power generation ...



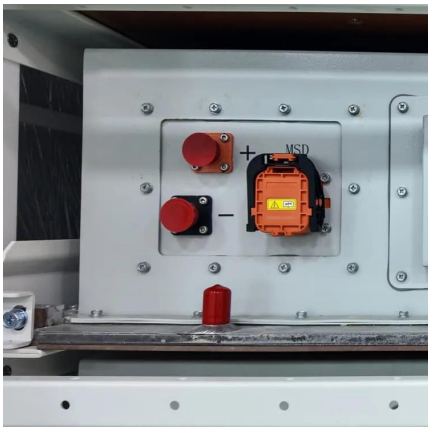
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