The role of solar power generation and energy storage in Tajikistan

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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.

What is the share of thermal power plants in Tajikistan?
In Tajikistan,thermal power plants account for a share of 6.1% (318 MW)in the electricity generation. It should be noted that more than 98%of electricity in Tajikistan is generated by hydropower plants,including 97% from large and medium HPP. The share of thermal power plants is relatively small.

What is the main source of energy in Tajikistan?
Hydropoweris the main source of energy in Tajikistan,followed by imported oil,gas and coal. However,Tajikistan's energy sector is prone to supply shocks. Energy policy focuses on providing uninterrupted energy access to all users while improving regio

How can Tajikistan decarbonise its energy sector?
New techniques and technologies will be needed to decarbonise these areas. Hydropower is the main source of energy in Tajikistan, followed by imported oil, gas and coal. However, Tajikistan's energy sector is prone to supply shocks.

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Distribution of wind potential Annual generation per unit of installed PV capacity (MWh/kWp) Wind power density at 100m height (W/m2)

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