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Solar energy storage power station in Tajikistan

Overview

Construction of a 3-megawatt solar power plant with a 0.5-megawatt energy storage system has begun in the Shugnan district of Tajikistan's Gorno-Badakhshan Autonomous Region (GBAO).Does Tajikistan have a solar power plant?

The project also includes a hybrid energy storage power plant rated for 180-kilowatt hours. The new solar plant is a direct result of successful cooperation between the Government of Tajikistan, USAID, and Pamir Energy Company.

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.

Why did USAID support the installation of solar plant in Murghob?

At request of the Tajik Ministry of Energy and Water Resources, USAID supported the installation of the solar plant in Murghob to complement the nearby 1.5 megawatt ‘Tajikistan’ (formerly Aksu) hydropower plant and add additional clean, renewable energy to the local grid.

Why has Pamir energy been isolated from the national electricity grid?

More than 6,000 people have been isolated from Pamir Energy’s supply range and the national electricity grid because of the challenging terrain at an altitude of 3,600 meters. The Murghob solar plant will increase available daytime electricity by 50 percent.

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