

Tajikistan power generation equipment container





Overview

How many hydropower plants are there in Tajikistan?

Currently, there are 11 large and medium hydropower plants in the Republic of Tajikistan and nearly 300 small hydro power plants with total capacity of 132 MW. In 2009 we adopted the updated program for the construction of small hydropower plants. The program envisages the construction of 189 sHPPs with total capacity of 103.6 MW.

What is the share of thermal power plants in Tajikistan?

The share of thermal power plants is 318 MW or about 6.1%. 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.

Does Tajikistan have a power system?

The existing electrical transmission and distribution systems of Tajikistan, designed in the 1970s during the Soviet era, are also being upgraded and expanded, allowing transmission of power from Tajikistan to surrounding countries.

Can Tajikistan become a net energy exporter?

The Government of Tajikistan aims to transform itself from a net energy importer to a net energy exporter, on the strength of its potential for hydropower and solar power production. According to the World Bank, Tajikistan's power production is 92 percent hydropower, six percent hydrocarbon, and two percent from other sources.

Can Tajikistan export electricity?

Several options for Tajikistan's cross-border electricity trading are explored in this report. The analysis indicates that resource availability and variations in



seasonal electricity demand profiles in relation to its neighbours provide opportunities for Tajikistan to export electricity.

How can Tajikistan improve its energy system resilience?

Tajikistan seeks to enhance its energy system resilience by reconnecting to the United Energy System of Central Asia. This effort is supported by large infrastructure projects of common interests, such as CASA-1000 and the Rogun Hydropower Plant Project.



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One of the key benefits is their high efficiency and rapid response time, which allows for quick ramp-up to full power output, making them well-suited for peak load demands and emergencies.

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Opportunities for electricity trade - Cross-Border Electricity ...

While there would be an increase in generation costs for Tajikistan from the large amounts of FRR mobilised, the study found that as long as those higher costs are reflected in the price of the ...

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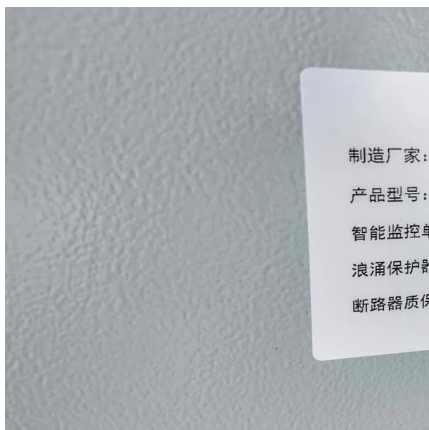
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Tajikistan's electricity sector is characterised by seasonal surpluses and shortages with limited diversity of energy sources, and the financial challenges of the state-owned electric utility.

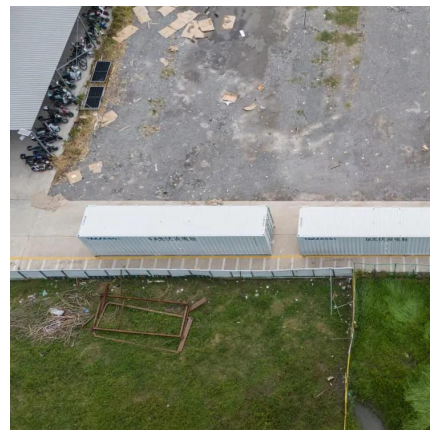
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