

Tajikistan container silent power generation





Overview

Does Tajikistan have a hydro power plant?

With abundant water potential from its rivers, natural lakes and glaciers, Tajikistan is almost exclusively reliant on hydro for electricity generation. It is home to some of the world's largest hydropower plants and is ranked eighth in the world for hydropower potential with an estimated 527 terawatt-hours (TWh).

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.

Why should Tajikistan invest in hydropower?

Tajikistan's geographic proximity to some of the world's fastest-growing energy markets means that investing in developing its hydropower potential can contribute to regional energy security and the clean energy transition, in addition to addressing Tajikistan's high vulnerability to climate change and natural disasters.

Can solar energy be used in Tajikistan?

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. There is small wind energy potential, but its use as a complementary main hydropower is justified in some regions.

What is IEA's energy sector review of Tajikistan?

This International Energy Agency (IEA) energy sector review of Tajikistan was conducted under the auspices of the EU4Energy programme, which is being



implemented by the IEA and the European Union, along with the Energy Community Secretariat and the Energy Charter Secretariat.

What is the economic loss of hydropower in Tajikistan?

Depending on annual hydrological conditions, the economic e economic loss averages between \$90 and \$225 million per annum. 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.



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[The energy sector of the Republic of Tajikistan](#)

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