

Is Tajikistan moving its energy sector towards more reliability?

With an aging electricity supply that relies almost entirely on one source of power generation, hydropower, Tajikistan has a uniquely unstable power supply that has caused energy shortages and rolling blackouts for decades. Now, Tajikistan appears to be moving its energy sector towards greater reliability and sustainability.

Does Tajikistan have a power sector?

The power sector is considered a strategic industry for Tajikistan. In 2016, it launched the National Development Strategy 2030 which includes a goal to become energy independent. The strategy's primary aims are summarised as "10-10-10-10-500", which is shorthand for: Increasing installed capacity by 10 GW. Reducing technical grid losses by 10%.

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.

Does Tajikistan have thermal power?

It has relatively little thermal generation. In 2019, 93% of its generation was from hydro and 7% was from coal-fired capacity. Tajikistan has limited sources for heating other than electricity which accentuates winter peak demand and deficits. IEA. Licence: CC BY 4.0 IEA. Licence: CC BY 4.0

What is Tajikistan's power sector plan?

In Tajikistan's power sector plan, coal is the main fuel choice in several of its scenarios to address increasing electricity demand, especially in winter. In the long term, climate change could pose risks in terms of melting glaciers and increasing droughts.

Does Tajikistan export electricity to Uzbekistan?

However, in 2018 Tajikistan reconnected and initiated bilateral electricity trade with Uzbekistan in which it exported 1.5 terawatt-hours (TWh) at USD 20 per megawatt-hour (MWh). The price and quantities are expected to be renegotiated every season. Electricity shortages in the winter are critical for Tajikistan.

Electricity accounted for 6.6% of Tajikistan's total exports from January to October. During the ten-month period, Tajikistan generated over 18.6 billion kWh of electricity, marking a 1.2% increase compared to the previous year.

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.

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Limited cross-border electricity trading opportunities hinder Tajikistan from optimising the advantages of its hydro resources. This affects its ability to pay liabilities and raise capital to ...

Coupled with the IEA roadmap on cross-border electricity trading for Tajikistan, published in October 2021, this report aims to give a holistic overview of Tajikistan's energy sector and to assist policy making at all levels in order to facilitate the effective delivery of the National Development Strategy for 2030 and its ambitious goals ...

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. Energy policy focuses on providing uninterrupted energy access to all users while improving regio

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Limited cross-border electricity trading opportunities hinder Tajikistan from optimising the advantages of its

hydro resources. This affects its ability to pay liabilities and raise capital to further develop its power generation fleet (ADB, 2016).

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