

Why does Tajikistan need interconnecting power systems?

In the case of Tajikistan, it provides a bigger market to which it can sell its hydropower surpluses. In energy security terms, interconnecting power systems offers a more diverse energy supply and reduces the impact of disruptions.

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%.

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.

Should Tajikistan import electricity?

While exports are the prime motivation of Tajikistan to pursue cross-border electricity trade in order to gain revenue, the option to import electricity in times of shortage should be open. Imports could also delay or avoid the need to build new thermal generation capacity.

What is electricity trading in Tajikistan?

Most electricity trading arrangements in Tajikistan today are long-term bilateral contracts with limited options for variations in volumes or price.

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.

Historically, Tajikistan relied on imports from its Central Asian neighbours to make up for seasonal electricity shortages. But it was disconnected from the Central Asian Power System (CAPS) in 2009 effectively isolating the country and exacerbating the winter shortfall.

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 ...

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Electrical Power Systems Overview. 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 ...

3 ???· Tajikistan has taken a step toward advancing its renewable energy sector by signing a protocol with South Korea to construct the country's first MW-scale solar power plants. These projects aim to address the critical power shortages in the Sughd region and the Gorno-Badakhshan Autonomous Region (GBAO), marking a transformative phase in Tajikistan's ...

Tajikistan's largest solar power plant launched in Gorno Badakhshan. The project also includes a hybrid energy storage power plant rated for 180-kilowatt hours. According to the U.S. Embassy in Dushanbe, the new solar plant is a ...

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Mobile energy storage systems, classified as truck-mounted or towable battery storage systems, have recently been considered to enhance distribution grid resilience by providing ...

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Tajikistan's aim to export 10 TWh of electricity in 2030 requires a power system capable of maximising value from its hydro resources within the existing transmission infrastructure and leveraging its advantages moving forward with expanded cross-border electricity trading.

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