

How secure is Uzbekistan's energy supply?

Uzbekistan's fuel/energy source security is becoming fragile, as the demand for the country's natural gas resources, the main energy source for electricity, is growing fast in other sectors, too. The plans to diversify into solar and wind power generation, possibly also nuclear power, appear well-founded also from the security of supply angle.

What are the plans for Uzbekistan's power capacity development?

In 2020, the Ministry of Energy published its plans for the Power capacity development in Uzbekistan for the 2020-2030 period in a document called "Concept note for ensuring electricity supply in Uzbekistan in 2020-2030".

Can biomass be used as a power source in Uzbekistan?

Considering a calorific value of 17.8 GJ/t, the gross energy potential is 1280 ktoe, which is approximately 2.9% of the primary energy consumption in Uzbekistan in 2010. Thus we have not included biomass as a possible energy source for power generation.

Will Uzbekistan fund a 250-megawatt solar photovoltaic plant?

TASHKENT, May 21, 2024 -- The World Bank Group, Abu Dhabi Future Energy Company PJSC (Masdar), and the Government of Uzbekistan have signed a financial package to fund a 250-megawatt (MW) solar photovoltaic plant with a 63-MW battery energy storage system (BESS).

Does Uzbekistan have a solar power plant?

In Uzbekistan, HPP generation is counted as electricity produced from renewable energy sources (RESs). Despite the country's considerable solar energy potential, it has no industrial-scale solar power plants. Furthermore, as wind potential has not been studied sufficiently, there are also no industrial-scale wind farms.

Should Uzbekistan reform its energy sector?

A tariff reform should be placed at the heart of Uzbekistan's efforts to reform its energy sector. Natural gas could be saved through improved efficiency, substituted with renewable energy in power generation and turned into higher-value-added petrochemicals.

The document talks in length about Uzbekistan's plans to rebuild its existing power plants, invite private power developers to take part in the power sector development to increase the power production capacity, lay out the plans for reforms, etc.

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Decree of the President of the Republic of Uzbekistan "On measures to radically improve the management system of the fuel and energy industry of the Republic of Uzbekistan" dated 01.02.2019 NoUP-5646

Natural gas exports will be phased out by 2025 and the gas will be used increasingly to expand petrochemicals production, while Uzbekistan's significant but unexploited solar and wind resources will be harnessed to help build a cleaner power sector to 2030.

This first comprehensive review of Uzbekistan's energy policies by the IEA comes at time of critical importance for the country's energy sector. The broad-based reform of the energy sector, beginning in 2019, has continued at a steady pace.

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government policies, including the Government of Uzbekistan's energy policies and growth forecasts, and modelling assumptions verified with relevant key stakeholders. The analysis takes into account the 2030 energy sector strategy and the fuel constraints embedded in it.

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To achieve decarbonisation and energy saving objectives, many countries are encouraging individual homes and buildings to shift from fossil fuel heating systems such as gas- or oil-fired boilers to systems like heat pumps which are much more efficient and can be powered with electricity from low-carbon sources.

"The new solar plant with a battery energy storage system will not just boost the uptake of renewable energy in the country, but also help stabilize and strengthen existing electricity grids and aid the global fight against climate change."

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