Energy smart solutions Uzbekistan

The article presents the work planned to be carried out by the government in order to further develop renewable energy sources in the Republic of Uzbekistan, in particular the sphere of...

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The Ministry of Energy of Uzbekistan has partnered with the European Bank for Reconstruction and Development (EBRD) and consulting company Corporate Solutions to develop a national Low-Carbon Energy Strategy. The aim is to improve energy efficiency and increase the share of renewable energy in the country"s energy mix.

Since 2021, Uzbekistan has commissioned ten green power plants, including nine solar and one wind power plant, with a combined capacity exceeding 2,500 megawatts. These developments are part of the nation"s broader effort to shift towards renewable energy sources and reduce dependency on fossil fuels.

Although the country is rich in hydrocarbon-based energy, Uzbekistan is moving forward on investing in energy-saving technologies, applying innovative approaches to the sustainable use of energy resources and switching to ...

2 ???· Previously entirely state-run, the sector has since evolved to include 24 independent energy producers. In the field of green energy, Uzbekistan has launched 16 large solar and wind power plants with a combined capacity of 3,500 MW or 10 bn kWh. This has raised the share of green energy in the national energy mix to over 16% in 2024.

Uzbekistan"s Energy Transformation Goals for 2030. Amidst a growing awareness of climate change, Uzbekistan is committing to a cleaner energy future. By 2030, the nation intends to achieve over 18,000 MW of renewable energy capacity, aiming for 40% of its total electricity generation to come from green sources.

Uzbekistan has been deploying smart grid technologies to modernize its energy infrastructure, integrate renewable energy sources, and optimize energy generation, transmission, and distribution processes. The adoption of AMI has improved billing accuracy and reduced operating costs.

Trina Solar, the leading global PV and smart energy total solution provider, has been supporting Uzbekistan"s

transition to renewable energy. The Uzbekistan government"s 2020-2030 power plan set a target of 5GW of additional solar power capacity.

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Uzbekistan is making strides in renewable energy, aiming to exceed 18,000 MW of solar and wind capacity by 2030, which will enable the country to generate 40% of its electricity from sustainable sources, save billions of cubic meters of natural gas, and reduce harmful emissions.

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