



Solar Energy of Uzbekistan Institute of Microsystems





Overview

This article will delve into the latest statistics on solar energy development in Uzbekistan, reviewing the key achievements of 2024 and outlining the ambitious plans set for 2025 and beyond. With a view to ensuring energy security while optimising renewable energy resources, the government has implemented a wide range of measures to promote the integration of renewable energy into the energy system and private sector participation in the energy sector, including in large-scale solar. Some of the benefits of solar power in Uzbekistan include reduced dependence on fossil fuels, lower greenhouse gas emissions, and improved energy security. The brief benefited from inputs and comments from Liliia Kachkinbaeva (ILO Consultant), Chiara Giamberardini (UNECE) and Iso t a critical moment in its development journey. The transition toward a low-carbon, inclusive, and secure energy system is. On July 30, 2025, a roundtable discussion was held on the topic of “Advancing Uzbekistan's Low-Carbon Strategy and Green Energy Certification for a Net-Zero Future” at the Institute for Macroeconomic and Regional Studies. The event brought together representatives of ministries and government. natural gas accounting for 90. 5% of total energy production in the country. The country's energy supply is also dominated by fossil fuels, with renewable energy - almost exclus tural gas accounted for 85%, followed b s to heat a fluid that directly or indirectly runs an electricity generator.



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Solar power in Uzbekistan

OverviewPotentialGovernment
PoliciesPhotovoltaicsResearch and development

Uzbekistan has great potential for solar energy due to its high levels of solar radiation and large areas of barren land that can be used for solar power plants. The country receives an average of around 300 sunny days per year, making it an ideal location for solar power generation.

[For the first time in Uzbekistan, a solar power plant has been](#)

The solar power plant by "Texnopark" is the first solar energy facility in Uzbekistan to be registered in this system. Over the past 18 months, a total of 344,835 renewable energy certificates ...



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In this vision, Uzbekistan succeeds in maximising the benefits of solar energy capacity for both electricity and heat, making solar energy one of the country's major energy sources.

[Uzbekistan Solar Energy: 2024 Results & 2025 Plans](#)

This article will delve into the latest statistics on solar energy development in Uzbekistan, reviewing the key achievements of 2024 and outlining the ambitious plans set for 2025 and



beyond.



[Solar Energy Policy in Uzbekistan: A Roadmap](#)

Explore Uzbekistan's opportunity to take advantage of its solar energy potential and integrate it into the larger Uzbek energy strategy, in order to increase energy efficiency and meet rising demand.

[Solar Energy Policy in Uzbekistan: A Roadmap - Analysis](#)

After discussing the possible barriers to the deployment of solar energy in Uzbekistan, the report presents a roadmap for solar energy by 2030. It provides examples of international best ...



[A solar energy roadmap for Uzbekistan by 2030](#)

To enhance the use of solar energy resources in Uzbekistan, we recommend the government consider incorporating, as appropriate, all measures listed in the roadmap into its solar energy strategy toward ...



[Major trends characterizing solar energy development in Uzbekistan](#)



This paper examines the main trends in the development of solar energy in Uzbekistan. It also describes various schemes for powering deep-water pumps using PV power plants and ...



[A Just Energy Transition Roadmap for Uzbekistan](#)

Government bodies and energy governance: Uzbekistan's energy governance framework involves multiple agencies with distinct mandates, reformed in recent years to support a market-driven and ...

[Analysis of the Solar Energy Potential of the Republic of Uzbekistan](#)

A brief summary of data collection and the creation of an actinometric database necessary for estimation of the solar energy potential of the Republic of Uzbekistan is provided.





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