

# Increased renewable energy penetration uzbekistan



## Overview

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By the end of 2025, Uzbekistan had increased its installed electricity capacity to 28,570 MW, up from 24,063 MW at the start of the year. Solar and wind power have become central to the country's energy mix, with 13 solar and five wind power plants producing almost 4. Uzbekistan is scaling solar and other renewables, using innovative financing and partnerships to modernize its power sector and cut emissions. Since the beginning of the year, Uzbekistan's solar and wind power plants have produced over 5 billion kilowatt-hours (kWh) of electricity - surpassing the total renewable energy output for the entire year . Uzbekistan marked 2025 as a landmark year in its transition towards green energy, building on a decade of policy reforms and international partnerships. Private sector participation has grown significantly, adding 11. 8 times compared to the period of the 1950s. Moreover, the limited and declining resources of hydrocarbon energy sources bring to the agenda the adoption of measures to develop alternative energy, which is an urgent and relevant task.

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### [Uzbekistan's renewable energy output hits record high, surpassing](#)

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### [The share of renewable energy sources in electricity generation in](#)

"We have an ambitious goal that we must achieve by the end of this year - to increase the share of renewable energy sources [from 10%] to 18% [in total electricity production].



### **Uzbekistan's renewable expansion powers long-term growth**

Uzbekistan is rapidly expanding its use of renewable sources - particularly hydropower and wind - as part of a broader drive to diversify its energy supply and strengthen energy security

### [Uzbekistan plans to increase the share of renewable energy sources](#)

According to the Strategy "Uzbekistan - 2030", the country plans to increase the share of renewable energy sources to 40 percent of the total volume of electricity production by 2030.



### **Uzbekistan Aims for 50% Green Energy by 2030 in Major Power**



### [Driving Uzbekistan's Renewable Energy Growth Through PPPs and](#)

Uzbekistan is scaling solar and other renewables, using innovative financing and partnerships to modernize its power sector and cut emissions. Transitioning from fossil fuels to

The government had previously announced a goal to increase renewables' share to 40% of total energy consumption by 2030, but the new target raises that figure to 50%. In addition to



### [Uzbekistan aims for 20 GW in renewables by 2030. Deputy PM tells](#)

Under President Shavkat Mirziyoyev's leadership, Uzbekistan has seen a 50% increase in its installed energy capacity, which now stands at 25 GW. Of that, over 3.5 GW stems from solar

### **Uzbekistan's 2025 Green Energy Boom**

By the end of 2025, Uzbekistan had opened 42 new energy facilities and started building 21 more. The country added 5,000 MW of solar and wind power, plus 400 MW of hydropower, raising



### **Uzbekistan's Energy Overhaul: Measurable Gains and Public**

Renewable energy in Uzbekistan is now a growing part of the national mix. In 2024, fourteen solar and three wind plants with a combined capacity of 4,100 MW began operating across ten regions. These

[Policy Brief 1 Current Landscape and Future Pathways for a Just](#)

This institutional architecture, spanning policy, regulation, investment facilitation, and oversight, underpins Uzbekistan's efforts to modernise its energy sector, integrate renewable and nuclear



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