

# Mongolia Energy Saving Solar System



## Overview

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The pilot 'Solar Facility' project by UNDP Mongolia introduced solar-powered heating and demonstrated it as a clean alternative to coal. Using photovoltaic systems with smart meters, it cuts emissions, improves air quality, withstands Mongolia's harsh winters, and . Ms. Gantuya, a mother of three living in the city's sprawling ger - traditional round felt tents- areas in Chingeltei District of Ulaanbaatar, enduring the bitter cold was just one challenge. Coal-driven air pollution is harming people's health. UNICEF reports that air pollution has devastating . At COP28, countries agreed to recognize the need for collective progress for transitioning away from fossil fuels, which are responsible for nearly 90% of global carbon dioxide emissions. Gantuya, beneficiary of the UNDP's Solar Facility Project. Enduring the bitter cold was only part of the . As of 2024, approximately 91% of Mongolia's electricity still comes from coal and CHP plants-a legacy of its Soviet-era, centrally managed energy system and the practical need to ensure reliable heat and power through long, harsh winters.

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### The Missing Piece in Mongolia's Energy Transition

Mongolia's energy transition cannot rely solely on wind and solar deployment. Without grid-scale storage and operational flexibility, curtailment risks and reliability challenges will persist.

### Accelerating Mongolia's just energy transition

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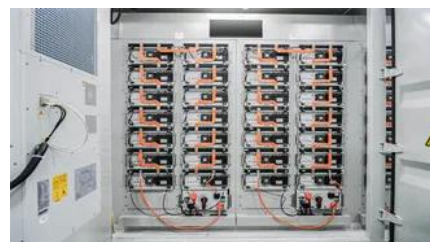


### [Energy - Invest Mongolia , Investment and Trade Agency of Mongolia](#)

Mongolia has abundant renewable energy potential, especially solar and wind power. Addressing national energy security, the Vision-2050 aims to become self-sufficient in energy production in the

### [Mongolia's Clean Energy Transition: A Pathway to Sustainable and](#)

Just energy transition means that Mongolia needs to shift from fossil fuels to renewable energy sources in a way that is fair and inclusive, ensuring that all communities benefit and no one is





[Accelerating Mongolia's Just Energy Transition, Joint SDG Fund](#)

With more than 90 per cent of energy still coal-based, Mongolia has set ambitious climate goals under its Nationally Determined Contribution NDC 3.0 and Vision 2050 to transition to clean

**Mongolia completes 10 MW solar farm**

Mongolia has connected a 10 MW solar farm to the grid, as part of a plan to deploy 40.5 MW of solar and wind capacity in the nation's western regions.



**THE WORLD ENERGY TRILEMMA MONGOLIA**

Despite recent efforts to enhance reliable power generation, reduce reliance on energy imports, and secure sovereign loans to modernize outdated energy infrastructure, significant challenges remain in

[ADB to Support Mongolia in Expanding Solar Power and Grid Stability](#)

This will be one of Mongolia's largest renewable energy procurements and the country's first solar and BESS auction. The project is designed to enhance grid reliability, reduce dependence



**Solar and wind power in Mongolia: 2024 policy overview**

Mongolia has a target of 30% renewable energy capacity by 2030, reflecting the country's commitment to transitioning to a low-carbon, green economy as outlined in the Vision 2050 strategy.

[Mongolia to Boost Solar Power and Grid Stability with ADB-Supported](#)

The project will be implemented across Mongolia's Western and Eastern Energy Systems and marks one of the country's largest renewable energy procurements as well as its first solar and



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