



Ulaanbaatar retrofitted with solar air conditioner

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Ulaanbaatar, the world's coldest capital and home to over 1.5 million people, has around 20% of its residents living in prefabricated panel buildings. Built more than 30 years ago, these homes are reaching ...

In Ulaanbaatar, 30.4% of the total households live in gers. The indoor air temperature, surface temperature, outdoor air temperature, and solar radiation were measured to validate the performance of roof and wall ...

In 2024, 69 households in Ulaanbaatar and Erdenet adopted solar PV-powered heating systems, providing a sustainable alternative to coal. This initiative improved air quality, supported ...

Discover how solar photovoltaic (PV) technology is transforming energy accessibility in Ulaanbaatar. This article explores Mongolia's renewable energy potential, the role of solar PV systems in reducing air pollution, and ...

A project in the Khoroo 19 subdistrict of Ulaanbaatar aims to deliver affordable and green housing solutions that reduce the reliance on coal for heating. The Tsaiz Eco Village will provide 176 ...

This study addresses the critical challenges of thermal comfort and air pollution in Ulaanbaatar's traditional ger housing, where coal stoves contribute significantly to some of the worst winter air quality globally.

The second heating system in Kindergarten B uses the electricity from a 20 kWp photovoltaic system to directly and efficiently heat the individual rooms with 19 air-conditioning units, i.e. air-to-air heat pumps.

GerHub believes that tackling air pollution requires a comprehensive approach that moves away from fossil fuels altogether. With this belief, GerHub is partnering with the climate tech start-up URECA on the "Coal-to-Solar" ...

The objective is to increase coal efficiency and thermal comfort for families while decreasing the dramatic air



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pollution in Ulaanbaatar.

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