

# Warmer Homes, Brighter Futures

How Energy Efficiency is Transforming Lives  
in Mongolia

Presented by Enkhgerel Ariunbold



## Battling the Coldest Capital in the World

Temperatures plummet to **-40 °C**.

Heavy reliance on coal for heating: Over 80% of the energy supply in Ulaanbaatar is derived from coal.

Air pollution levels skyrocket in winter: Nearly **70%** of Ulaanbaatar's air pollution is attributed to the burning of coal.

Significant health and economic costs: **10%** of GDP



## Women and children

are disproportionately affected by this pollution.

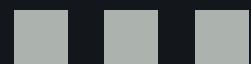
Women exposed to high levels of air pollution during pregnancy are at a higher risk of premature birth and low birth weight babies.

Children exposed to air pollution are more likely to develop respiratory illnesses.



picture credit: <https://www.nationalgeographic.com/environment/article/mongolia>

-air-pollution





**But there is a solution:  
Energy efficiency.**

By making our homes and buildings more energy -  
efficient, we can reduce our reliance on coal, improve  
air quality, and protect the health of our communities





## Energy Efficiency: A Win-Win Solution

Implementing energy efficiency measures in buildings can lead to energy savings of **30 -40%**.

Improved air quality can result in a **20%** reduction in respiratory illnesses.



# Our Renovation Initiatives: A Roadmap to a Sustainable Future

This is crucial in a country where women spend  
**2.5** times as much time on unpaid domestic and  
care work than men





## Empowering Women, Uplifting Families

Energy efficiency renovations in Ger districts have resulted in a **50%** reduction in coal consumption, freeing up women's time for other activities.





## A passive house project for:

### Single mother of 6 children

In partnership with the Mongolian Women's Fund. Ulaanbaatar, Mongolia. 2019

Energy efficiency renovations can increase property values by up to 20%







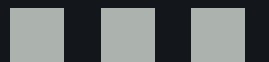
## Women's entrepreneurship

is vital for Mongolia's economy, yet only **38.8%** of firms have female ownership.

In Mongolia, the labor force participation rate for females is **52.8%**, significantly lower than the **67.8%** for males.



Thermo -Passive house project in Partnership with Darkhan's Women Association. Darkhan province, Mongolia. 2024



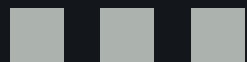
# Join the Energy Efficiency Revolution

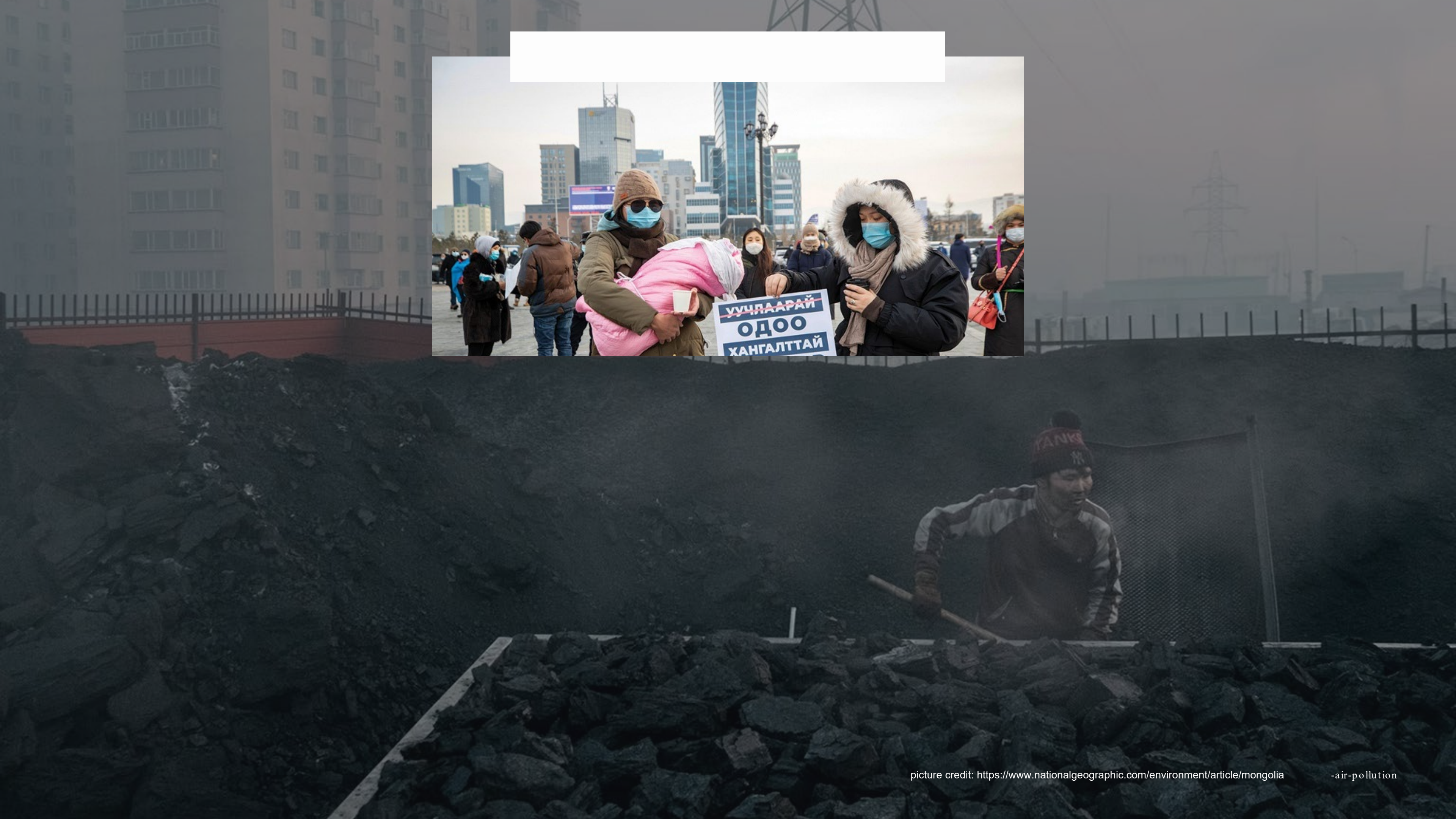
Children living in energy -efficient homes have shown a **78%** reduction in school absences due to illness, allowing mothers to focus on their own pursuits.



picture credit: <https://www.nationalgeographic.com/environment/article/mongolia>

-air-pollution







# Thank You

Support our initiatives and their implementation.

Spread awareness about the benefits of energy efficiency.  
Together, we can build a warmer, healthier,  
and more prosperous Mongolia.