



ДУЛААН ШИЙДЭЛ
SWITCH OFF AIR POLLUTION



SWITCH OFF AIR POLLUTION PROJECT

ABOUT US

Switch Off Air Pollution is a 4 year project started in 2018, with the aim to contribute in tackling the air pollution in Ulaanbaatar city through reducing coal consumption through decreasing heat loss and improving energy efficiency of the individual houses in the ger areas of Ulaanbaatar city. Geres Mongolia INGO is implementing the SOAP project in cooperation with the Building Energy Efficiency Center, Mongolian National Construction Association NGO and People In Need INGO with the financial support of European Union, Abbe Pierre Foundation, Czech Development Agency and the French Development Agency.

Project area:

- Ulaanbaatar city Ger district

Duration:

- 2018 - 2022.04

Target:

- Insulate 1000 HHs
- Avoid 3000 tons of CO2 emission
- Save at least 800 tons of fuel

FINANCIERS



OUR OBJECTIVES

"WE ARE MORE THAN JUST INSULATIONS"

Emissions of CO2 and particle matters in Ulaanbaatar's ger areas are reduced through improved energy efficiency in housing, awareness-raising, technical training, and technical support to MSMEs and households.

Sustainable consumption patterns and behaviors in the individual housing sector of Mongolia are promoted through energy efficiency advisory and financial intermediation.

Small, medium enterprises operating in the insulation sector are trained, providing high-quality products and services.

TARGET GROUPS



Households in the ger area



MSMEs of the construction sector



Local authorities



Financial institutions



Construction material suppliers



International development agencies

BASELINE STUDIES AND RESEARCH

The **baseline study** was conducted to understand people's knowledge and attitude on heat loss, air pollution, households' saving and spending patterns, future investment plans for houses.

The **Household Socio-Economic Analysis study** was completed to do an in-depth analysis of the socio-economic situation and financial capacity of households living in detached houses of ger district in Ulaanbaatar city.

Qualification of existing habitat and heating sources study was conducted to examine the existing housing patterns, common mistakes in the construction process and evaluate heat loss.

Micro, Small, and Medium-sized Enterprises research created the database of MSMEs operating in 6 districts of Ulaanbaatar city regarding their professional skills, experience, economic situation, and human resource.

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Before full insulation



After full insulation

HIGHLIGHTS



The New Branch was established at MNCA to recruit, train and support MSMEs in the energy-efficient construction sector, linking to green employment.



Market Delivery Model was set up. Certified insulation materials are delivered with qualified and energy-efficient insulation services to the ger area households per their purchase.



www.dulaalga.mn was created to offer households with insulation-related information service and calculate the cost of their chosen insulations. **"Дулаан шийдэл төсөл" Facebook page, +976-75052000 Call Center** was created to serve as the main promotional channels.



KPI



Key Performance Indicator evaluation was implemented to improve the product and service quality of brigades.



CRFM

Community Response Feedback Mechanism (CRFM) document is finalized and committee was established

Training modules for MSMEs were developed:

- Theoretical and Practical
- Energy Advisory
- Business training
- Gender and protection
- Website backend
- Marketing and Sales



OUR PRODUCTS AND SERVICES



Roof attic insulations:
5cm, 10cm, 15cm, 20cm



Wall insulations:
Mineral wool and EPS board



Window replacement



Foundation insulation: XPS board



Full and partial insulations



Green loans are offered through 3 financial Institutions: Khan bank, Xac bank, Transcapital NBFi.

Winter monitoring is conducted annually at partially, fully insulated and non-insulated households to measure the indoor air quality, thermal comfort, and other indicators. Also, new demonstrations for energy saving, such as **Veranda**, is being piloted.

SIMPLE SOLUTIONS

Simple Solutions, easy and affordable Do It Yourself insulation solutions, campaign was conducted. The campaign reached people through community engagement to create awareness of the importance of insulation and provide basic knowledge of proper insulation techniques.



1,050

Households implemented Simple Solutions

267

Insulated 267 households' roof with 5cm mineral wool as incentives



170

Packages of window and door insulation materials were delivered



13,300

Number of Facebook group's member

IMPLEMENTING PARTNERS

