SWITCH OFF AIR POLLUTION PROJECT

Switch Off Air Pollution project was implemented between 2018-2022, with the aim to contribute to tackling the air pollution in Ulaanbaatar city through reducing coal consumption, decreasing heat loss and improving the energy efficiency of the individual houses in the ger areas of Ulaanbaatar.

**Project results 2018 - 2022**

- 3,556 tons of GHG emission avoided
- 1,546 households were insulated
- 2,411 tons of fuel consumption avoided
- 20 solutions were developed
- 73 MSMEs were trained

**Simple Solutions campaign**

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

- 1,429 households implemented Simple Solutions
- 274 households received 5cm roof insulations
- 175 window and door packages were delivered
- 16,200 members of Facebook group

Findings of 2018 baseline study

Aim of study: Collect and assess the thermal performance of the exterior envelopes, heating system and indoor air quality assessment of 178 houses in ger area.

**Insulation condition**

- No insulation: 45%
- Partial insulation: 55%
- HIs insulated by themselves: 98%

**Thermal comfort**

- Warm: 9%
- Normal: 31%
- Cold: 60%

- 93% lacks sufficient insulation
- 3.4 times number of stove firing

**Phase I highlights:**

- Market Delivery Model was set up and launched
- www.dulaalga.mn was created to offer households with insulation-related information service and calculate the cost of the insulations
- Дулаан шийдэл төсөл Facebook page, +976-75052000 Call Center was created to serve as the main promotional channels

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1. **Technical Assessment**
   - Book a Technical Assessment through our call center to receive an insulation cost estimation.

2. **Green loan**
   - Submit the technical assessment sheet to the Bank/NBFI to request a green loan.

3. **Contract**
   - When the loan is issued, sign a contract with the brigade and receive the insulation materials.

4. **Insulation Work**
   - After the material delivery, the brigade will complete the insulation work within 3-5 working days depending on the complexity.

5. **Auditor’s Certificate**
   - After completing the insulation work, an Energy Audit Certificate will be issued.

*If the household finances the insulation work, skip step 2, sign a contract with insulation brigades, and transfer the payment amount according to contract terms.*
SWITCH OFF AIR POLLUTION IN MONGOLIAN CITIES PROJECT
2022 - 2026

Our Aim

Switch Off Air Pollution in Mongolian cities (SOAPII) project is aiming to act on building the momentum for Sustainable Consumption and Production in the housing sector in Mongolia, scale-up inclusive, contextualized, affordable, and financially viable Energy Efficiency (EE) solutions to decrease intensity, cost, GHG emissions of energy, and maximize health, economic and social benefits with an ultimate goal to promote just & sustainable development practices.

Outputs

1. Awareness raising and behavior change
2. Develop new EE solutions for detached house
3. Improve green loan accessibility
4. Capacity building of MSMEs in EE sector
5. Development of replication toolbox for deployment for scaling-up in all Mongolian cities
6. Ownership and sustainability of the project is ensured, EE product market is developed

Target:

- 5,900 HHs directly reached
- 1,000 HHs receive Green loan
- 160 Capacity building for MSMEs
- 11 Bank/NBFI/Saving groups collaborated
- 2.2 million People reached through the marketing and PR activities

Target groups

- Households in the ger district
- Local authorities
- Construction material suppliers
- MSMEs of the construction sector
- Financial institutions
- International development agencies

Energy efficient solutions

- Technical assessment/Thermal camera assessment
- Roof attic insulations: 5cm, 10cm, 15cm, 20cm mineral wool
- Wall insulations: Mineral wool and EPS board
- Window replacement
- Foundation insulation: XPS board
- New energy efficient products

Implementing partners

- 7505-2000
- Дулаан шийдэл төсөл
- www.dulaalga.mn