Introduction and hand over of project results

Илтгэгч : Dr. Dunja Hoffmann GIZ, Project Director

1992 - 2022





Implemented by



БҮСИЙН СУРГАЛТ

Challenges in the building sector



PROJECT DETAILS

Energy Efficient Building Refurbishment in Mongolia Project (EEP/PIE2) 2018-2022 8.3 Mio Euro (BMZ and SDC co-Funding)



MACRO-MESO-MICRO LINKAGES



POLICY AND PROCESS CONSULTING Energy Conservation Law,

Financing arrangements, Tariffs

CAPACITY DEVELOPMENT Institutions, Service providers, Credit facilities

TECHNOLOGY TRANSFER Piloting, Market take-up, Replication

PROJECT GOALS



Transparent, effective and gender-sensitive public investment management (PIM) in Ulaanbaatar is introduced through the case of energy efficiency in buildings.



Local Energy Efficiency Action Plan (LEEAP) for the building sector is adopted.



Private sector's capacity for energy efficiency is improved.



Energy efficiency technologies are introduced in ger neighborhoods.

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LEEAP Guidebook for Mongolian Regions



THE PURPOSE OF LEEAP IS TO INTEGRATE ENERGY EFFI-CIENCY IN THE BUILDING SECTOR. WE WILL FOCUS ON Implementing leeap nationally and creating a comprehensive database platform on the energy consumption of buildings in mongolia.

D.Gantulga, Head of Department Cordination of implementation policy for building and construction material of Ministry of Construction and Urban Development (MCUD)



Database for transparent and effective allocation of budget for refurbishment

✓ Public building database

✓ Pannel building database

Now also usable nation wide



Parental participation methods for monitoring and evaluation developed

2018-2021:



Additional activities implemented by project schools:

Educative school gardening, implementing recycling strategies, building paved access roads, fences for save playing, renovation of classrooms, creation of new spaces, organize training and advocacy activities to students, parents and other communities, implementing knowledge in insulation in private houses and other public education buildings

Energy efficiency is also a gender topic!

Work with MUB on Gender Sub-Program lead to involvement on national level.

Draft amendment and manual to the budget law for budget investment procedure Nr. 295

ENERGY EFFICIENCY & GENDER EQUALITY



GOAL

Sustainable Capacity development

- Training in building energy efficiency has become a stand-alone training course in the construction sector and issues 'credit hours' for specialist to obtain a professional degree
- Training course (also as online training) is officially accepted and operated now by the Mongolian Association of Construction Designers
- **3. Green Building Council** (GBC) is in process of establishment. MCUD intends to transfer the green building certification system to the GBC
- First successful EDGE green building auditing and certification completed as demonstration for the future operation of GBC in Mongolia
- Mongolian Banking and Finance Academy/BFA is now in position to provide training for financing EE buildings to the banking sector
- 6. National Academy of Governance (NAOG) is including energy Efficiency and GRB in regular courses for public servants 1.4.2022 Energy Efficient Building Refurbishment in Mongolia



1st financing scheme and designs for Energy Efficient ger area houses





THIS CERTIFIES THAT Sakura Property & GIZ Energy Efficiency Project Pilot House 1 Units HAS ACHIEVED AN EDGE ADVANCED CERTIFICATE CERTIFICATE OP1-MING-21040811015876-1

> Excellence In Design For Greater Efficiencies

E₿ge

EDGE ADVANCED Exemplifying achievement in the following areas:

57% Energy Savings

27% Water Savings

42% Less Embodied Energy in Materials

1.23 tCO₂/unit/year Operational CO₂ Emissions 19.56 tCO₂/unit/year Operational CO₂ Savings

DEVELOPED BY Sakura Property Co.Ltd

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Thomas Saunders, Managing Directo DATE OF ISSUE: 13-SEP-202



Sintali



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First

officially

certified

Building

Mongolia

green

in



Thermo-technical refurbishment of schools and kindergartens



Temperature improvements and energy savings Be comfortably warm and save 40% of energy at the same time

Thermo-technical refurbishment avoids investment in new power plants

Investment for

126 energy efficient schools and kindergartens

supersedes the investment in a **20 MW coal fired HOB plant!**

9 Blueprints work for 117 buildings in UB> How many in your region?



Public infrastructure needs investment

- 1. Many schools and kindergartens are build in the soviet and post soviet time
- 2. Lifetime is mainly 30-40 years
- 3. Decision to be taken now: prolongue lifetime by thermo- technical refurbishment -

new construction in a few years

- versus -









Thermal imaging camera equipment & training

Your equipment to encounter heat losses in buildings







Deutsche Gesellschaft für Internationale Zusammenarbeit (GIZ) GmbH

Registered offices Bonn and Eschborn

Friedrich-Ebert-Allee 36 + 40 53113 Bonn, Germany T +49 228 44 60 - 0 F +49 228 44 60 - 17 66

E info@giz.de I www.giz.de Dag-Hammarskjöld-Weg 1 - 5 65760 Eschborn, Germany T +49 61 96 79 - 0 F +49 61 96 79 - 11 15

