

Technical Cooperation Project | 2019-2021



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AGENDA



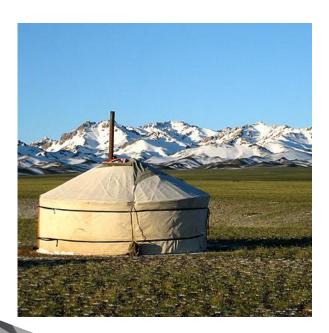


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MONGOLIA THE LAND OF THE BLUE SKY

MONGOLIA THE LAND OF THE SMOG SKY



Population 3.2 Million

Area Size 1.56 Million km²

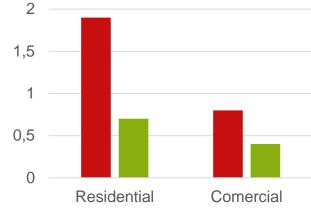
Average Winter Temperature -20 degrees C





EMISSIONS FROM BUILDINGS







26 Sep. 2019

IEA Energy Balances, 2018 Mongolian Third National Communication, 2018

EEP in Mongolia

High coal dependency



Over 70% of heat from CHPs go to building sector



Energy demand projected to increase by 2030



CHALLENGES IN THE BUILDING SECTOR



Old Infrastructure



Low Energy Tariffs Little Investments



High dependency on coal



GOVERNMENT ACTIONS

Heat Loss Targets:







Approved Policies/ Strategies:

Energy Conservation Law (November 2015)

National Energy Efficiency Improvement Program (September 2017)

State Policy on Construction Sector (February 2019)

Mongolian Sustainable Development Vision 2030

Mongolia's Nationally Determined Contributions (NDC)

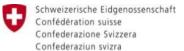
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ENERGY EFFICIENT BUILDING REFURBISHMENT IN MONGOLIA PROJECT (EEP)



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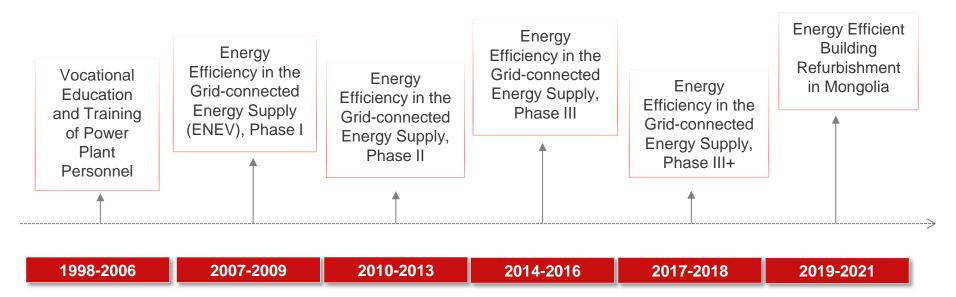


Overall Term
2019 to 2021

6.9 m Euro



GIZ ENGAGEMENT IN THE ENERGY SECTOR





ENERGY EFFICIENCY PROJECT GOALS



- 1. Transparent, effective and gender-sensitive public investment management (PIM) in Ulaanbaatar is introduced through the case of energy efficiency in buildings.
- 2. Local Energy Efficiency Action Plan (LEEAP) for the building sector is adopted.
- 3. Private sector's capacity for energy efficiency is improved.
- Energy efficiency technologies are introduced in Gerneighborhoods.

ENERGY EFFICIENCY PROJECT

MACRO-MESO-MICRO LINKAGES



POLICY AND PROCESS CONSULTING

Energy Conservation Law, Financing arrangements, Tariffs



Institutions, Service providers, Credit facilities

TECHNOLOGY TRANSFER

Piloting, Market take-up, Replication





ENERGY EFFICIENCY PROJECT



- 1. Energy Savings up to 50 %
- 2. Reduced CO2 and fine particle emissions
- 3. Extended lifetime of building > 20 years
- 4. Improved indoor/living quality

FROM 10-18°C to 22°C INDOOR TEMP

ENERGY EFFICIENCY PROJECT



Reduction of absents due to illness by 1/3



Reduction of absence due to illness by around 74%





Reduction of medical costs and lost work opportunities.



Enhanced desire to attend the school; Improved performance; More active

ON SUSTANABILITY

SOCIAL

improved quality of life improved health fewer sick leaves



ECONOMIC

higher income / household

reduced heat costs

financing options for investments in energy efficiency

ENVIRONMENTAL

heat loss in buildings reduced use of coal less air pollution



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