

MICRO ENERGY CREDITS – CLEAN ENERGY FOR HOUSEHOLDS


Project Partner:

senken GmbH
Zehdenicker Straße 8a, 10119 Berlin
contact@senken.io
www.senken.io

Project Country:

Mongolia

Project Region:

Ulaanbaatar and surrounding regions

Project Type:

Household Energy Efficiency

Certification Standard:

Gold Standard

CO₂ Impact in Tons per Year:

89,000t

Projektbeschreibung:

MicroEnergyCredits addresses both climate change and air quality in Mongolia through the distribution of efficient heating technologies to low-income households. Ulaanbaatar is the world's coldest capital city, with average winter temperatures of -20°C, and was among the most polluted cities globally. A large share of residents live in ger districts and rely on inefficient coal stoves for heating, consuming significant amounts of coal per household annually. In partnership with XacBank, MicroEnergy Credits provides affordable efficient furnaces and home insulation through a microfinance program, significantly reducing fuel consumption. The project has reached over 160,000 households since 2009, contributing to a significant improvement in air quality in Ulaanbaatar. Beyond emissions reductions, the project delivers significant health benefits by reducing harmful indoor air pollution that particularly affects women and children.

Additional Positive Impacts:

- Significant reduction in household heating emissions
- Significant savings on fuel costs for participating families
- Dramatic improvement in indoor and outdoor air quality
- Economic empowerment through microfinance access and energy cost savings



New home equipment



Communal cooking



Youth training programs

Supported SDGs



Microfinance-funded efficient furnaces reduce annual fuel costs, freeing household income for other essential needs.



Lower heating expenses allow families to allocate more resources toward food security.



Efficient stoves drastically reduce indoor air pollution, lowering respiratory disease rates especially among women and children.



Healthier indoor air and reduced fuel-gathering time enable children to attend school more regularly.



Women, who bear the primary burden of indoor cooking and heating, benefit most from reduced smoke exposure and fuel costs.



Reduced coal combustion decreases local water contamination from ash and particulate runoff.



The project replaces inefficient coal stoves with modern, energy-efficient heating technology across 160,000+ households.



The microfinance partnership with XacBank creates local jobs in furnace distribution, installation, and maintenance.



Each upgraded household significantly reduces coal consumption, contributing to an annual avoidance of 89,000 tonnes of CO₂.