



ENERGY SAVING THROUGH QUALIFIED PROFESSIONALS FOR EFFICIENT HEATING SYSTEMS

BACKGROUND:

Mongolia is characterized by extreme climatic conditions with temperatures below minus 40°C in winter and above 40°C in the summer. This extreme temperatures and long winters between October throughout April, make a functioning heat supply essential for life. As the demand for thermal energy has increased continuously in recent years, but the supply has stagnated, cities like Ulaanbaatar are facing immense challenges. The old inefficient and often mis-dimensioned heat distribution and heating systems lead to high energy losses, enormous emissions, and a poor indoor climate in buildings (overheated or hypothermic in winter).

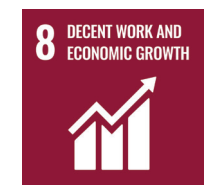
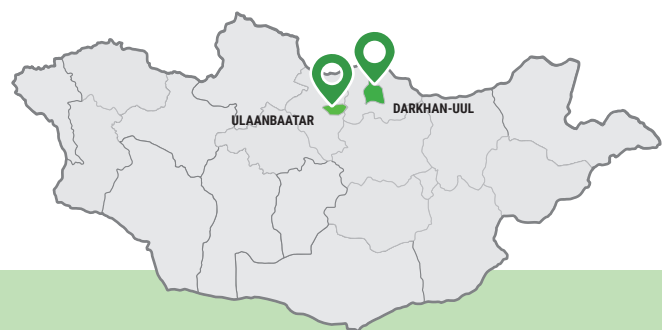
There is a need to widely use modern climate-friendly control and regulation technology, including pump systems and improve specialists knowledge on how to install, operate and maintain high efficiency heating systems and make such trainings available.

The project is brought forward by WILO SE and GIZ GmbH in the framework of develoPPP.de program of the Federal Ministry of Economic Cooperation and Development (BMZ).

OBJECTIVE:

To make Mongolian heating system more efficient and save energy through introducing environmentally friendly, modern technologies and train current and future skilled workers via TVET.

Commissioned by:	The Federal Ministry for Economic Cooperation and Development (BMZ) within the framework of DeveloPPP.de program
Co-financed by:	WILO SE
Location:	Ulaanbaatar, Darkhan-Uul province in Mongolia
Partners:	HandWerk stiftet Zukunft Central Agency for German Schools Abroad (ZfA)
Lead executing agency:	Ministry of Labour and Social Protection Ministry of Education and Science Ministry of Construction Urban Development
Duration:	2021.09 – 2024.08



RESULTS:

One of the world leaders in energy efficient heating solutions, WILO Group in collaboration with GIZ shares its expertise in skills development for modern heating technologies in Mongolia's TVET, energy and construction sector. The DeveloPPP.de partnership focuses on:



► **Enhancing the training capacities** related to installation, operation, and maintenance of energy efficient heating solutions. **An action oriented training** on modern heating technology is in development by TVET teachers and industry representatives.

Capacity building of training staff at 2 partner TVET institutions. Modernizing **the practical training environment**, that will serve as reference facilities for teaching and training.



► Industry specialists and TVET students **are being trained** through multipliers to deepen their competencies on modern heating technologies.

To enhance the standards for energy-efficient buildings, the latest developments on international energy-efficient heating systems standard is being exchanged in expert dialogues.



► A TVET student **exchange program** between Mongolian and German TVET trainees is being set up with support of the Association 'HandWerk stiftet Zukunft' and for language preparation with Central Agency for German Schools Abroad (ZfA).



► Three local **community projects** in the optimization of heating systems will be implemented to **raise awareness** on the energy saving and potentials of efficient heating systems.

Synergetic links are established with the BMZ assigned projects "Cooperative Technical and Vocational Education and Training", "Build4Skills", "Energy Efficient Building Refurbishment" and "Strategic Alliance of Capacity Development for Energy-Efficient Construction" projects.



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