

# “COOKING, HEATING, AND INSULATION PRODUCTS (CHIP) PACKAGE FOR MONGOLIAN GER

## Objective:

The Cooking, heating and insulation products (CHIP) package replaces the coal-fired stoves and chimney with an energy efficient electric heater, circular air filters on the door, and extra layers of windproof and waterproof insulation around and under the ger. This was designed to improve energy efficiency and indoor air quality in traditional gers as well as to contribute to the reduction of ambient and indoor air pollution.

## Project context:

Due to the high exposure to polluted air and climate-related hazards, children across Mongolia face enormous risks to their overall health, cognitive development, and access to nutritious food and safe water. Without swift action, generations of Mongolians will experience the health and economic consequences of air and environmental pollution for decades. To address these challenges, PIN, with partners, has developed and scaled up the CHIP package for Mongolian ger families since 2019 by receiving funds and technical guidance from UNICEF and other development donors.

## Beneficiary households:

Nowadays, more than 2000 beneficiary households from seven provinces, including Bayankhongor, Umnugovi, Govi-Altai, Dundgovi, Orkhon, Sukhbaatar, Khentii and 2 districts (Bayanzurkh and Songinokhairkhan) of Ulaanbaatar are using CHIP.

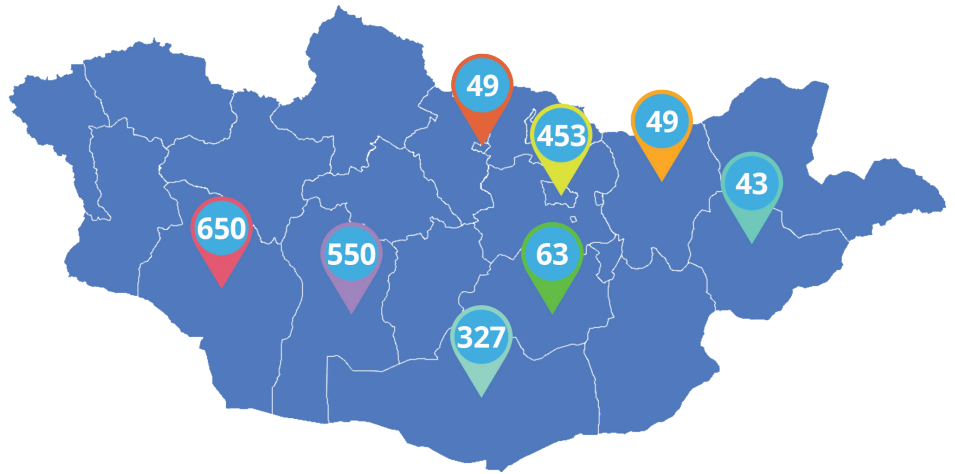


Figure 1: Number of project households by location

## Target groups:

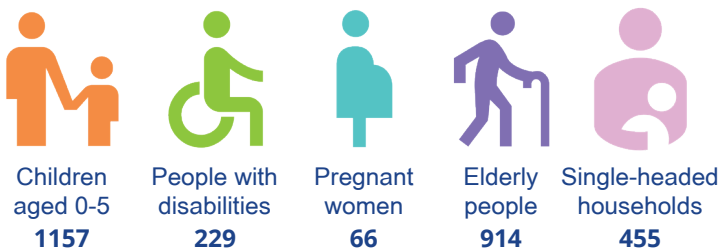


Figure 2: Time saved by using heating package per day

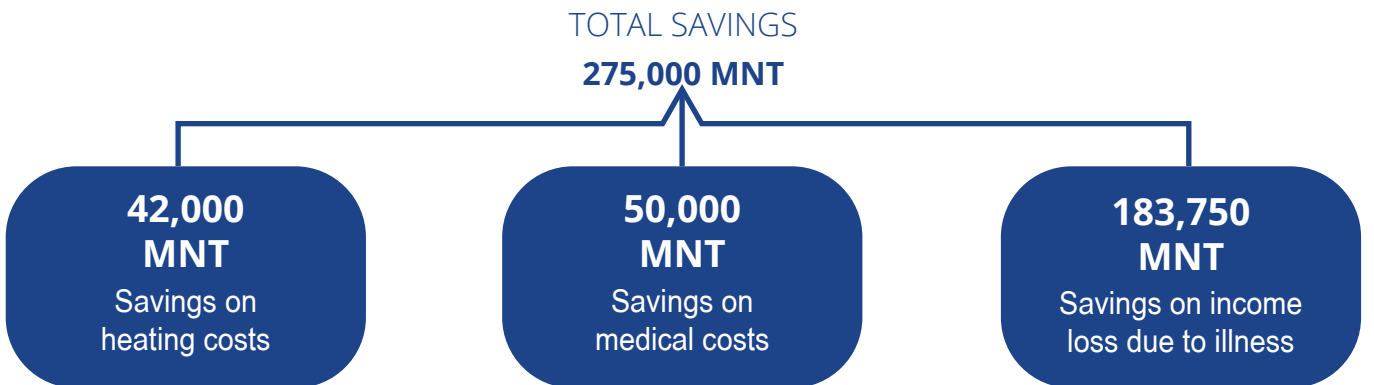


Figure 3: Benefits of the CHIP project to the household economy

The CHIP consists of 3 different packages:

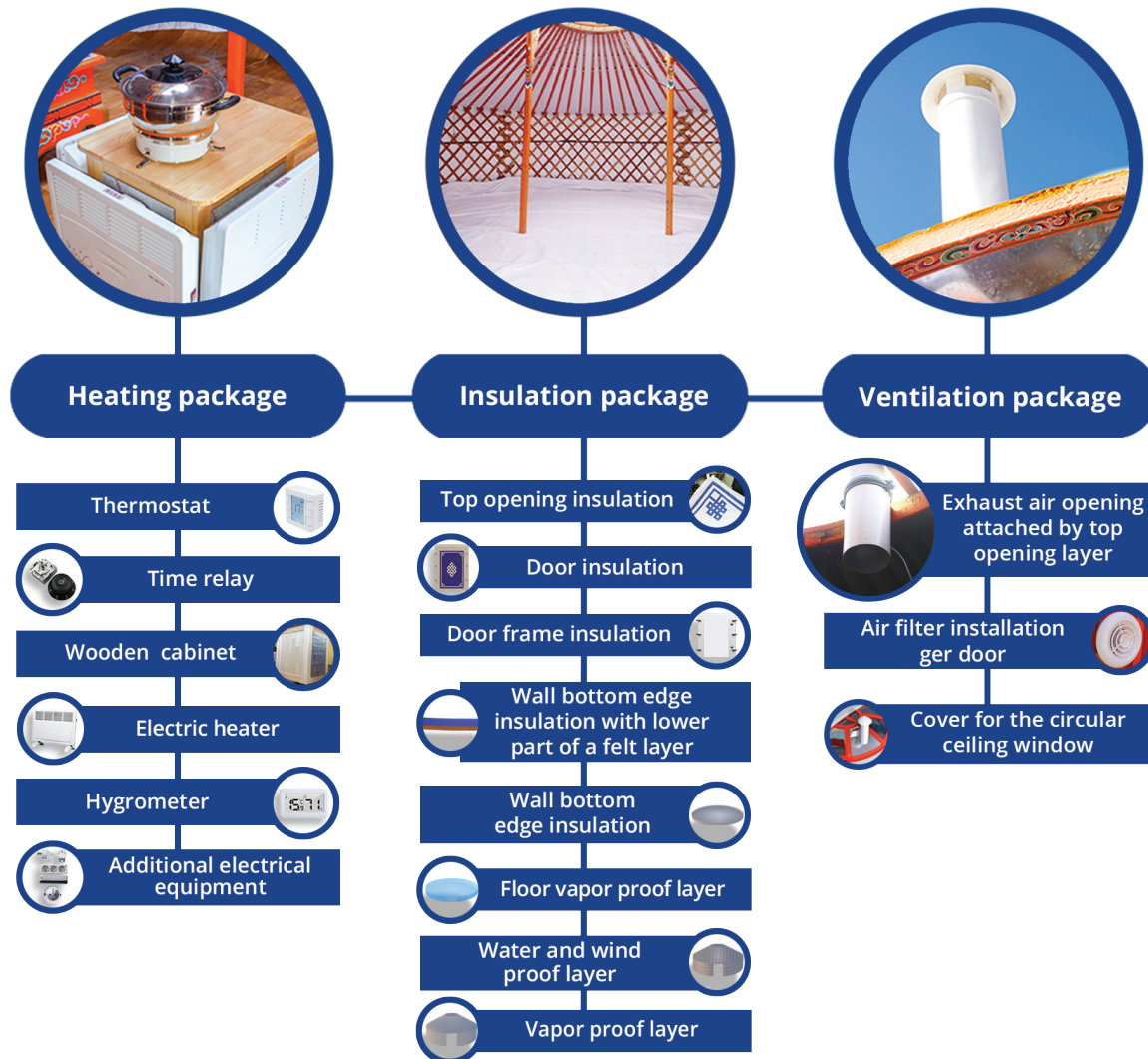


Figure 4: CHIP package

## Project results:

In 2019-2024, local governments allocated a total of 6.3 billion MNT from their local budgets to enable vulnerable households to receive CHIP packages with a 50-75% subsidy. Also, 28 Ger kindergartens installed 64 packages by receiving supports from UNICEF to educate 971 children under 5 years old, in healthy, safe, and clean environment. The raw coal combustion generates excessive amounts of particulate matters, carbon monoxide, nitrogen oxide, as well as sulfur dioxide, which are the main sources of dangerous levels of indoor and outdoor pollution, global warming and climate change. With the implementation of this project, in addition to creating energy savings in households and Ger kindergartens, it directly contributes to the reduction of air and environmental pollution.

A total of 86 HHs representing 126 children (0-5) responded with positive outcomes in children's respiratory health when comparing the change before and after CHIP installation. The CHIP package significantly lowers risks to infants and children when compared to coal-based stoves used for heating. The use of CHIP package also eliminates injuries for children and adults caused by fires and burns, providing stable temperature, safe and pollution-free environments.

**CHIP price per package: 3,000,000 MNT**

*Project duration: Since 2019*



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