

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

## Objective:

The Cooking, Heating, and Insulation Products (CHIP) package replaces coal-fired stoves and chimneys with energy-efficient electric heaters, comprehensively addresses indoor air quality with air ventilation systems, and additional windproof and waterproof insulation around and under the ger. This initiative aims to enhance children’s health and create a comfortable, warm environment for families by improving energy efficiency and indoor air quality in traditional Gers, while also reducing both 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 2300 beneficiary households from 14 locations, including Bayankhongor, Umnugovi, Govi-Altai, Dundgovi, Orkhon, Sukhbaatar, Khentii, Dornod, Darkhan-Uul, Govisumber, Tuv provinces and 2 districts (Bayanzurkh and Songinokhairkhan) of Ulaanbaatar are using CHIP.

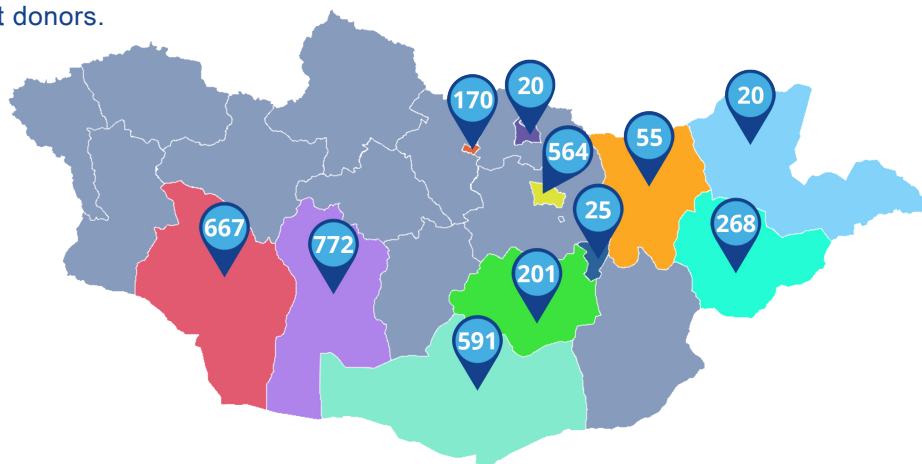


Figure 1: Number of project households by location

## Target groups:

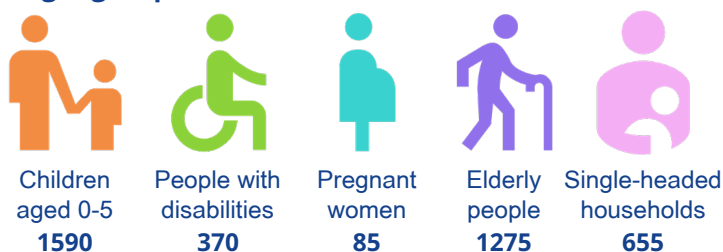


Figure 2: Time saved by using heating package per day

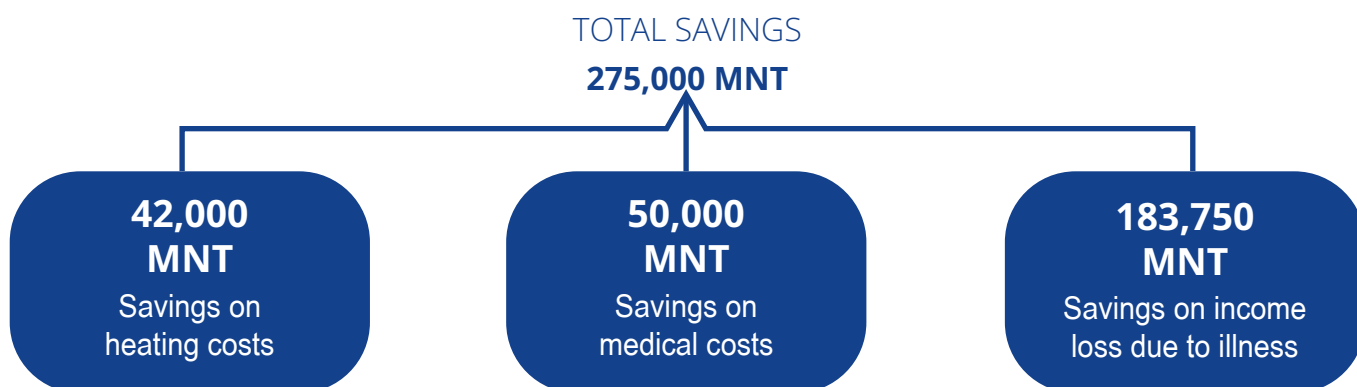


Figure 3: Benefits of the CHIP project to the household economy

The CHIP consists of 3 different packages:

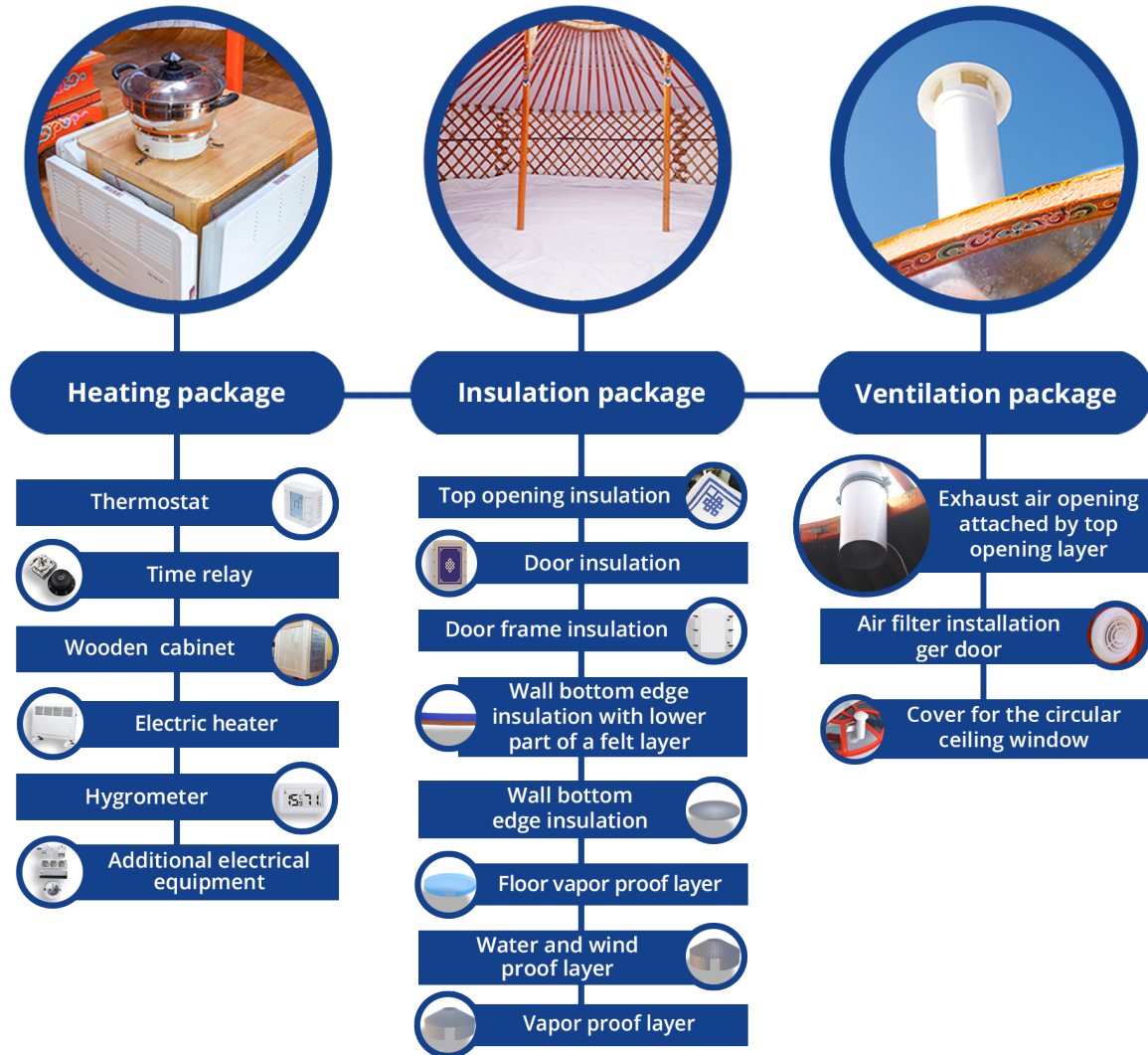


Figure 4: CHIP package

### Project results:

From 2019 to 2024, local governments allocated 6.3 billion MNT from their budgets to provide vulnerable households with CHIP packages subsidized by 50-75%. Additionally, 30 Ger kindergartens received support from UNICEF to install 64 packages, allowing 971 children under 5 years old to learn in a healthy, safe, and clean environment. The combustion of raw coal produces excessive particulate matter, carbon monoxide, nitrogen oxide, and sulfur dioxide, which are major contributors to indoor and outdoor pollution, global warming, and climate change. This project not only saves energy for households and kindergartens but also helps reduce air and environmental pollution.

Eighty-six households, representing 126 children (ages 0-5), reported improved respiratory health after the installation of CHIP packages. These packages significantly reduce risks to infants and children compared to coal-based stoves used for heating. Additionally, the CHIP package prevents injuries from fires and burns, ensuring stable temperatures and safe, pollution-free environments.

**CHIP price per package: 3,000,000 MNT**  
*Project duration: Since 2019*



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