

Bishkek home energy storage

The World Bank supported a comprehensive technical assistance (TA) program on HELE stoves over a three-year period 2016-19, examining demand features and supply characteristics of the Kyrgyz stoves market and piloting the use of HELE stoves in 76 low income households in four regions, with a focus on high altitude locations. The findings from the market studies and the lessons from the pilot trial are summarized in this report.

<https://openknowledge.worldbank.org/bitstream/handle/10986/33833/Fueling-Kyrgyzstan-s-Transition-to-Clean-Household-Heating-Solutions.pdf?sequence=1&isAllowed=y>

A resident of the Kyrman residential area, Kuban Shekeyev, is actively engaged in the construction of his new insulated house, the facade of which is currently faced with travertine.

A two-story mansion with an area of about 260 sq. m. in the Kyrman residential area is being built following all technical requirements for energy efficiency within the framework of the GEFK Kyrgyzstan (Kyrseff III) program.

Kuban Shekeyev first heard about the GEFK Kyrgyzstan (Kyrseff III) program several years ago. But only this year did he decide to build his own house, turning to GEFK Kyrgyzstan (Kyrseff III) engineers for technical advice. Experts gave recommendations on how to apply for a soft loan from Kompanion Bank.

Credit specialists of the financial institution promptly issued a loan under the GEFK Kyrgyzstan (Kyrseff III) Program to Kuban Shekeyev. GEFK Kyrgyzstan (Kyrseff III) engineers proposed installing energy-efficient five-chamber windows with double-layer glazing and insulating the external walls with 5 cm-thick mineral wool. The roof was insulated with 15 cm of thick mineral wool.

"I thank the GEFK Kyrgyzstan (Kyrseff III) engineers for the detailed consultation. It is necessary to support the introduction of green technologies, save energy, and prepare housing for the winter period. Big challenges are being addressed, including reducing air pollution. There is no longer any need to heat with coal, as it is very harmful to the environment," noted Kuban Shekeyev.

As a result, after implementing all energy-efficient measures within the GEFK Kyrgyzstan (Kyrseff III) program, the energy savings in the house will be 27.63 MWh, and the savings in carbon dioxide emissions will be 16.63 tons per year.

Kuban Shekeyev hopes that he will celebrate his housewarming next year. As a result of the implementation of all agreed energy efficiency measures, the grant portion can be up to 15% of the total loan amount.

The Program for Promoting the Green Economy in Kyrgyzstan, GEFK Kyrgyzstan (Kyrseff III) is being implemented with the support of the European Bank for Reconstruction and Development and the European Union. It encourages the introduction of energy and water conservation measures in the private sector.

Developed by Habitat Kyrgyzstan Foundation, this housing project provides affordable, environmentally-sustainable homes for low-income families using a traditional cane reed and clay construction technology, combined with an innovative coiled circuit under-floor heating system. The houses are seismically stable and meet local building codes. This technology allows families to save up to 40 per cent on construction costs compared with the cost of conventional brick housing construction and up to 75 per cent in energy costs. Forty-eight houses have been built to date, using self-build and volunteer labour to reduce costs. Low-cost housing loans help to ensure affordability.

To provide an affordable, environmentally sound, seismically stable and transferable housing and heating solution for low-income families in Kyrgyzstan.

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