

## SAFEGUARDING TRADITIONAL KNOWLEDGE IN PERU THROUGH TECHNOLOGICAL IMPROVEMENT

A wider campaign is being developed in Peru for technological upgrading and certification of stoves that rural population usually constructed and used for cooking and heating homes. Wood and mud stove is a tool that is part of the tradition of rural dwellings of the country and its conservation and improvement can generate a clear impact on health, economy, culture and environment.

The Ministry of Energy and Mines estimates that of the total households in the Peruvian population (27 million people), 42% use firewood, charcoal, manure and/or agricultural waste as fuel for cooking and in rural areas this percentage rises 82%. Also the materials used to build these stoves come from local territory and the construction process does not require high skilled labour.

However, the aesthetic and functional value of these traditional stoves faces with significant problems generated by its use: smoke causing respiratory disease and poor performance leading to high wearing of wood.

The wider ongoing campaign for the promotion, installation and certification of Clean Cookstoves is a response to these problems, involving relevant ministries, regional and local governments, universities, environmental associations, private companies and organizations for international cooperation.

The traditional cooking technology has been improved in a number of structural elements: the combustion chamber, the fireplace and its control valve, the outlet for ash, pipelines for smoke, and others that can be found in detail in construction manuals.

The Clean Cookstoves reduces the health risks because smoke and ash are not ejected in the kitchen. It has two burners and household economy improves by rational use of firewood, saving 40% combustion material and reducing the cooking time of foods. This range reduces the risk of burns because the heat is concentrated within the combustion chamber and the outside of the stove is not heated. It is a low cost technology because it can be built with local materials and with the support of technicians and workers from the territory.

The Clean Cookstoves rescues the design of traditional kitchen sometimes of high aesthetic value, and contributes to the beauty of the traditional home.



These initiatives ongoing in Peru are an example of a successful investment of all the key players in the development and application of appropriate technology that improves a basic aspect of life of the rural population, preserving the elements of tradition and local culture.

The amount of published manuals on the construction of Clean Cookstoves demonstrates the broader participation to this process of technological progress for human development. The wide availability of manuals about the construction of these stoves allows artisans and small enterprises to specialize in the production of these functional and eco-friendly tools.



### **To know more**

[National campaign](#)

[Manual Pontificia Universidad Católica del Peru](#)

[Manual Soluciones Prácticas – Perú](#)

[Manual Soluciones Prácticas – Perú](#)

[Manual Adra Peru](#)

[Manual ENDEV-Peru](#)

[Manual ITACAB](#)

[Manuals in soluciones solares blogspot](#)

[Manual Itaca.com](#)

[SlideShare of Peru Solar](#)

[Article in concinas mejoradas.com](#)

[Article in wordpress](#)

[Publication of GIZ](#)

