

Institutional Improved Cookstoves (ICS) by JEEP at Schools



Why to choose this solution?

The stove maximizes energy effectiveness by concentrating heat in the cooking chamber, also leading to less heat loss to the surroundings.

Savings per day or production:

Within less than 2 years, Kitegomba CoU Primary School has made use of the savings to construct 3 smaller ICS for the school in January 2019.

Cost in money and in own time to construct:

The stove at the Kitegomba Church of Uganda Primary School cost about Ush 2 million/ USD 555. That expense was incurred and paid in four installments with JEEP providing technical support. A School charge of Ush 3,000 per pupil for development and lunch contributed to raising this money for initial cost and for maintenance of the Improved Cookstove (ICS).

Lifetime:

The first ICS constructed, now 1.5 years in service, and three others made since January 2019, are in operation. It is expected to be in operation several years.

Maintenance needed:

Only basic maintenance needed like cleaning from time to time is necessary.

Resources needed in use:

Logs have to be cut into shorter pieces with a chainsaw and later split with axes.

Problems and limits:

Because the School lacks a fence, outsiders make off with its firewood during holidays. Prospective buyers cannot borrow money from banks due to conditions set. Technical aspects of the stove: height limits proper mixing of food during preparation; saucepan limitations (no flexibility).

Where and how can you get it or make it?

JEEP promotes this ICS.

Skills needed to produce, install, maintenance, use:

Training, largely related to masonry work, by JEEP.

How to use it:**How to maintain it:****Climate effect (if any):**

Cleaner cooking place (kitchen), keeps heat for a longer time after extinguishing the fire (up to 4 hours), means no additional energy input needed to warm food during that time. Provision of boiled drinking water for the school population is made easier.

Where it is used and how many users are there?

School has pupils and teachers (over 350 persons).

Why is it successful?

Clear results in savings / reduced expenditure for Kitegomba CoU primary school are compelling and have attracted attention of other schools.

If you can make it, a short description, typical problems, materials needed:**How to make it (if possible):****How is it delivered and by whom?**

JEEP provides building, training to build, and technical support.

Successful financial model**What policies and strategies helped the success?**

Willingness of the school management and parents to raise the funds required in installments in order to construct the ICS. Positive attitude of the school management and cooks to adopt the ICS and to move away from the inefficient three-stone cooking facility.

More info:

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Sources:

<https://jeepfolkecenter.org/>

When was the case uploaded?

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*Case from Catalogue of Local Sustainable Solutions
in East Africa. Read more and see partners at*

