

## **Key Project Information - GS6264**

Component Project Activity (CPA) under the GS CDM PoA:

Improved Cook Stoves Programme for Rwanda (GS Ref. Nr.1023, UNFCCC Ref. No 6207)

### **1. Description of the Project Activity**

The small-scale project will apply Save80 cook stove systems, a state of the art technology for efficient stoves in Rwanda. It is a portable stove made of stainless steel, developed and prefabricated by a German manufacturer and constructed locally to create employment and income.

The initiators aim to upscale the existing PoA (Programme of Activities) by supplying households with Save80 cook stoves under this CPA (Component Project Activity). The initiators have a good experience with energy efficient cook stoves, in Rwanda with the Save80 system.

The Save80 stoves are suitable for Rwandan households that currently use charcoal and/or firewood as fuel for cooking. Each Save80 set contains a stainless steel stove, a heat-retaining cooking box and can be used with pots of various sizes. It only needs 250 g of small brittle sticks/twigs of wood to bring 6 litres of water to boil, 80% less than traditional open fires. It is important to consider that it takes 9 kg of wood to produce 1 kg of charcoal. Therefore if the Save80 can boil 6 litres of water with 0,25kg of wood, a charcoal stove would need about 2 kg of wood for the same, demonstrating the massive wood savings from the Save80 use.

The stove is suitable for cooking, frying, water heating and sterilising. The Save80 system also comes with a heat retaining device (called Wonderbox), in which a pot can be transferred after the food reaches the boiling temperature, and where it will continue to simmer until it is well cooked. The Wonderbox allows important energy savings in addition to the savings by the Save80 stove. The design of the Save80 may develop over time. According to the manufacturer, the Save80 stove has an estimated lifetime of at least 10 years.

The Save80 stove is a simple technology and easy to operate. It has been used in several countries and is proven to be satisfying. The technology and know-how used in the project activity is environmentally safe and sound.

The Save80 stoves will be sold at a reduced price to make them affordable to the average households. The financing gap is bridged by carbon revenues. Sales revenues will be directly used to finance sales, marketing and monitoring activities.



Indicative design of the SAVE80 system (consisting of a stainless steel stove, aluminum pot with lid and adapter ring used for lifting pots in and out of the stove and equipped with a “Wonderbox” for retained-heat cooking.

## 2. Responsible Parties

**atmosfair gGmbH:** atmosfair is a German not-for-profit company providing voluntary offsets for greenhouse gas emissions e.g. from air travel by CDM Gold Standard projects. atmosfair is responsible for the project registration under the Gold Standard, project design, monitoring and certification, in collaboration with its partners.

**SaferRwanda:** an independent non-state actor and non-for-profit organization established in 2000. SaferRwanda is engaged in several peace and environmental protection projects such as solar energy, tree planting and energy saving cook stoves. SaferRwanda is responsible for the project implementation, including stoves assembly, sales, after-sales services and monitoring.

**Rwanda Women's Network (RWN):** is a national humanitarian NGO dedicated to the promotion and improvement of the socio-economic welfare of women in Rwanda since 1997. RWN works with over 52 grassroots associations across Rwanda. RWN is

responsible for the project implementation including stoves assembly, sales, after-sales services and monitoring.

It should be noted that other parties may be included along the implementation period of the CPA.

### 3. Tentative Timeline

Date/Time period	Activity
January 2018	Submission of project documents to Gold Standard for Preliminary Review
Mid January – Mid March 2018	Conduction of Stakeholder Feedback Round to enable Stakeholders to comment on final design
March – April 2018	Start distribution of cook stoves under the projects
May 2018	Submit final project documents to Gold Standard for Certification and obtaining Gold Standard Registered Status
2018 - 2028	Duration of the CPA (10 years)

### 4. Social, economic and environmental benefits and impacts

#### Social benefits and impacts

**Improvement of health conditions:** The Save80 cook stoves use less wood and burn the wood more efficiently hence reduce indoor air pollution from wood and charcoal smoke and avoid its harmful risk of respiratory health consequences.

**Women and Youth Empowerment:** The project will engage women and youths in the administration, stoves assembly, sales/distribution, after-sales services and monitoring of the stoves usage. This will support their economic empowerment through the new jobs created and income earned.

**Creation of jobs:** the assembly, distribution and repairs, monitoring and management of the project will lead to creation of additional jobs in Rwanda.

**Community balance:** The reduced wood consumption will result in reduced pressure on community forest resources and contribute towards avoidance of the risk of inter-communal conflict over fuel resources.

#### Economic benefits and impacts:

**Income generation:** The people employed under the project will earn incomes through the various direct and indirect activities such as stoves assembly, sales and monitoring, transportation. Indirect service providers such as transporters and casual labourers will gain access income opportunities too.

**Access to clean energy services:** The Save80 system will reduce the fuel wood consumption/demand by 80% hence will make the cooking more affordable for households

and significantly reduces the expenditures on fuel as well as the time spent on firewood collection, which can be invested in other income generating activities.

Environmental benefits and impacts:

**Reduction of CO<sub>2</sub> Emissions:** Improved cook stoves reduce the overall wood demand since they use less wood as compared to traditional 3-stone fire places and reduce thereby the greenhouse gases which are released to the atmosphere when burning wood. This will have a positive impact on the climate due to a reduction in the release of CO<sub>2</sub>. The project is project to reduce over 42,000 tons of equivalent carbon dioxide (CO<sub>2</sub>e) per annum and hence over 420,000 tons of CO<sub>2</sub>e over the CPA lifetime.

**Reduction of deforestation:** The Improved cook stoves will reduce wood consumption to a sustainable level. The dissemination of Save80 cook stoves contributes to the natural recovery of forests and/or reforestation to take place.