

## Non-Technical Summary

### Mozambique Efficient Cookstoves Programme

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#### About the Programme

This document provides a clear overview of the planned "Mozambique Efficient Cookstoves Programme," a climate and development project seeking certification under the Gold Standard Foundation. The programme is a joint initiative of the Mozambican company StructCon Consultoria & Engenharia Lda and the German non-profit atmosfair gGmbH. The planned programme will supply households with the highly efficient SAVE80 cook stove sets all over Mozambique. The target beneficiaries are households which currently use firewood and charcoal as their cooking fuel.

This programme is designed to address several critical challenges facing Mozambican households that rely on traditional cooking methods, such as three-stone fires or inefficient stoves. These methods contribute to high household air pollution, excessive consumption of fuelwood, significant health risks, and increased greenhouse gas emissions. Traditional cooking methods expose households especially women and children to dangerous indoor air pollution. Prolonged exposure is linked with respiratory illnesses, eye problems, and higher mortality rates.

#### The SAVE80 Stove Set



*Figure 1. SAVE80 Full Set (Wonderbox (left), 8L Pot (middle) and SAVE80 Stove (right))*

Each SAVE80 stove set contains a stainless-steel stove, one pot with lids and a heat-retaining box. The SAVE80 is a portable stove developed by a German manufacturer, manufactured in Rwanda and assembled in Mozambique by StructCon. It only needs 250 g of small sticks/twigs of wood to bring 6 litres of water to boil, 80% less than traditional open fires.

Producing just 1 kg of charcoal typically requires 6-9 kg of wood, meaning most of the wood's energy is wasted during the conversion process. For example, while the SAVE80 boils water using only 250g of wood, a traditional charcoal stove would require the equivalent of over 2 kg of wood to perform the same task, demonstrating an 80% reduction in wood consumption.

The stove is suitable for all the cooking needs for the various meals across Mozambique. After reaching the boiling point, food can be transferred to the heat-retention box, where it will continue to simmer until it is well cooked. This further reduces wood consumption. The high-quality Fuel Wood Stoves are sold at a reduced price to make them affordable to the average

households. The financing gap is bridged by carbon credit revenues. Sales revenues will be directly used to finance sales, marketing and monitoring activities.

### **Benefits to the Programme**

Besides preventing greenhouse gas emissions, the objectives of the planned Gold Standard programme are:

- To reduce wood consumption to a sustainable level and allow natural recovery of forests and/or reforestation to take place.
- To reduce soil erosion and protect environment.
- To reduce indoor air pollution from wood and charcoal smoke and avoid its harmful health consequences.
- To reduce the fuel bill for charcoal or wood or to reduce the time for wood collection for households.
- To contribute to the preservation of wood resources to avoid potential inter-communal conflict over resources.
- To financially empower participating women and youths by including them in project activities.
- To reduce vulnerability of households falling into poverty through increasing energy security.

### **Project Participants**

- a. **atmosfair gGmbH**. Carbon Credit project developer, and PoA coordinating/managing entity. atmosfair is a German not-for-profit company providing voluntary offsets for greenhouse gas emissions by Gold Standard projects.
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- b. **StructCon Consultoria & Engenharia Lda** is a Mozambican company committed to driving sustainable development in Mozambique by integrating innovative solutions across its diverse business divisions. In the clean cooking sector, the company has successfully implemented distribution projects in Gurúè, Quelimane, and Mapai District in Zambézia Province, as well as in Massangulo District in Niassa Province and Beira District in Sofala Province.
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