

Tanga Improved Cook Stoves Project Summary



This project will involve the distribution of 20,000 energy efficient stoves within 18 wards across Tanga and Muheza Wilayas. Most families in the area use the traditional 3-stone cooking stove that produces a big fire and consumes large amounts of firewood. This means that a lot of time is spent collecting firewood that would be used otherwise for other developmental activities. The three stone fire also produces a lot of smoke which causes respiratory disease, particularly in women/girls who use it for cooking, but also in young children of both sexes and other people (e.g. the elderly) who spend a lot of time indoors. The use of this inefficient cooking method also has unintentional negative impacts on the environment surrounding local people.

The project will be attempting to address these issues by distributing energy efficient CarbonZero Stoves to households in the project area that in the absence of this project would cook primarily using traditional inefficient firewood stoves. The Carbon Zero Stove saves over 50% firewood compared to the traditional three stone stove that is commonly used. The stoves will be constructed, distributed and installed by local people under the guidance of co2balance Tanzania Ltd. These stoves will utilise the efficient rocket technology. These stoves will use less firewood and emit less smoke, which will reduce daily firewood costs and alleviate illness caused by smoke inhalation.

The distribution of efficient stoves will result in greenhouse gas emissions reductions associated with the reduction of the production and combustion of firewood derived from non-sustainable sources.

In addition to reducing the greenhouse gas emissions that are responsible for climate change, this project will contribute towards local benefits that will enhance the air quality in the area due to the reduction of the atmospheric pollutants.

Besides the benefits stated above, the project will provide the following co-benefits:

- Reduced deforestation and degradation of surrounding forests, as less wood will be needed to cook
- Reduced soil erosion and nutrient loss as trees protect the land
- Reduced risk of flooding in hilly areas as trees and plants on slopes soak up rain
- Reduced poverty, as the efficient wood stove reduces annual expenditure on cooking fuels;
- Reduced adverse health effects associated with indoor air particulate matter inhalation from the smoke due to the purpose-built stove design.
- Reduced cooking and wood collection time, which will allow more time to attend other household tasks and supervise children
- Reduced risk of attacks on firewood collectors (mainly women) in the remote areas generally used for firewood collection
- Reduction in burns and injuries as the CarbonZero stove is safer to cook on