ClimatePartner Impact

Improving lives through efficient household devices by ClimatePartner Impact

Key Project Information

Gold Standard
Improved Cookstove Micro-Scale Programme of Activities

Programme description

ClimatePartner Impact GmbH is the project developer and owner of “Improving Lives Through Efficient Household Devices by ClimatePartner Impact’’ and invites stakeholders to provide feedback on the planned Gold Standard Microscale Programme of Activities (mPoA) that will be implemented in India in the first phase, and with possible extension to other countries in the near future.

To address the challenges resulting from inefficient cooking methods, this mPoA will undertake an extensive distribution program to **create nationwide access to improved cookstoves for low-income households** in the countries it operates. Project activities (VPAs) under the mPoA will involve the distribution of efficient cookstoves to households cooking with non-renewable biomass. By the implementation of the project, traditional stoves will be replaced with project stoves that have higher efficiency, and the fuelwood consumption and related carbon emissions will be lessened.

Problem statement

Global climate and development goals cannot be achieved without changing the way people cook. Some 2.4 billion people are without access to clean cooking, costing the world more than US$2.4 trillion in damage to the climate and local economies and contributing to 3.2 million premature deaths each year. Biomass usage for cooking purposes induces respiratory diseases due to smoke emissions and heavy workloads if firewood has to be collected. Cooking is a fundamental part of life. Yet, billions of people do not have the luxury of safe meal preparation. Instead, they depend on polluting, open fires or inefficient, climate-harming stoves to cook their daily meals, emitting over 120 megatons of climate pollutants every year. More than half of anthropogenic black carbon emissions come from burning solid fuels for cooking and heating in homes, making household energy the largest controllable source of black carbon.[1]

[1] https://cleancooking.org/wp-content/uploads/2022/08/Accelerating-Clean-Cooking-as-a-Nature-Based-Climate-Solution.pdf

Contribution to the United Nation's Sustainable Development Goals (SDGs)

The project intends to contribute the following SDGs:

Households participating in this programme would get access to improved cookstoves to perform their basic cooking requirements. (1.4)

The improved cookstoves significantly reduces the smoke, carbon monoxide, and particulate matter which contributes to an improved indoor air quality, especially where cooking is done inside the household in poorly ventilated spaces. (3.9)

This program also aims to providing awareness raising to participating households and local stakeholders on sustainable development, environmental protection, climate change, etc. (4.4)

As the improved cookstoves considerably reduces the need for firewood, the time saved in collecting firewood from forests and quick cooking helps the households, especially women and young girls in most cases who are tasked with wood gathering and cooking. (5.4)

This program aims at providing access to improved cookstoves to as many households as possible in the region/countries it operates. (7.2)

This program through it's lifetime will create numerous employment opportunities for the distribution, repair and maintenance and periodic monitoring of cookstoves. All of this would be aimed at local job creation and capacity building. (8.5)

Households participating in this programme would help significantly reducing the GHG emissions using the new improved cookstoves compared to their current 3-stone/traditional cookstoves. (13.2)

As the firewood consumption would fall down with the new improved cookstove, the pressure on the forests to supply firewood too will be less, especially the non-renewable biomass. This would help slowing down deforestation rates. (15.1)

Geographic boundary

The micro-scale PoA boundary is currently the whole of India, starting with first VPAs in the state of Meghalaya. In near future, the PoA will expand to other regions in India via multiple VPAs, and may possibly also to other countries.

Implementation plan

Technology

Improved cookstoves (ICS) are biomass stoves that are intended to replace traditional cookstoves and open fires, in the context of energy poverty and cooking. Compared to traditional cookstoves, ICS are more fuel-efficient and aim to reduce the negative health impacts associated with exposure to toxic smoke.[2] Improved cookstoves are more efficient, meaning that the stove's users spend less time gathering wood or other fuels while reducing deforestation and air pollution. Some designs also make the stove safer, preventing burns that often occur when children stumble into open fires.

Activities

Each VPA will involve the distribution/installation of efficient cook stoves to households currently cooking with non-renewable biomass on a traditional stove. Local implementation partners of ClimatePartner Impact will help in identifying the project households which have not been part of any other similar carbon offset programme.

Figure 1: Greenway Jumbo Stove improved cookstove

[2] https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3673244/

Carbon finance

The distribution of fuel-efficient cook-stoves will be financed by ClimatePartner Impact. The project will be registered with the Gold Standard Programme of Activities, which will issue verified emission reduction credits to the project for each ton of CO_2 emissions saved/reduced. Income generated from the sale of these credits will be used to fund the distribution of the stoves, ensure maintenance and repairs over the lifetime of the project, monitor, and scale the project. No public funding or Official Development Assistance (ODA) will be diverted for implementation of the PoA.

Initial phase

It is planned to distribute 15,000 Greenway Jumbo Stove model improved cookstoves in the remote villages of Meghalaya during the first phase of the program. These cookstoves will be a part of multiple micro-scale VPAs. Greenway Jumbo Stove is a single-burner, high-efficiency cookstove that works on all solid biomass fuels such as wood, dry dung, crop waste, coconut waste, bamboo etc. The stove does not require any fuel processing/cutting.

Scale of the programme

The mPoA will be scaled up via launching several micro-scale VPAs across India with several implementation partners and improved cookstove model(s) suitable for that region. It is quite likely that this micro-scale PoA may also expand to other countries in the near future.

Impacts of the project

The project will lead to a significant improvement in living conditions in the participant households, since it will:

- Reduce exposure of participants to toxic smoke due to the use of firewood for cooking
- Reduce the time and money spent by participants on collecting and buying firewood for cooking
- Reduce the exposure of women and girls to dangers and violence faced while going away from the home to collect firewood
- The reduction in fuel consumption translates into a direct reduction in GHGs, helping to combat global climate change

Key information summary

Title of the Programme of Activity (PoA)	Improving Lives Through Efficient Household Devices by ClimatePartner Impact
Scale of the Programme	Micro-Scale (mPoA)
Project Boundary	The geographical boundary of the Republic of India
Activity Requirements applied	Community Services Activities
The methodology applied and version number	The Gold Standard Simplified Methodology for Clean and Efficient Cookstoves, version 3.0
Product Requirements applied	GHG Emissions Reduction & Sequestration
Project Cycle and Type	Regular Cycle & Gold Standard Voluntary Emis¬sion Reduction
Program Start	December 2022

Figure 2: Cookstove used in baseline scenario

ClimatePartner Impact

Aim of design consultation

This consultation aims to discuss and debate the potential environmental, social, and economic impacts that the project may have during its implementation with the various stakeholders. Please reach out to us for any suggestions/questions/ or possible collaboration **before 20th December 2022** on the contact details below:

ClimatePartner Impact GmbH

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ClimatePartner Impact GmbH is the project development subsidiary of ClimatePartner GmbH which was registered in 2006 in Germany and is a one-stop service provider for all needs connecting to climate neutrality, from the calculation of net-zero targets, product, and activities footprint to offsetting of residual emissions.

ClimatePartner Impact will act as the Project Owner & Developer of this Programme of Activity (POA), and the subsequent Voluntary Project Activities (VPAs).