Distributed Emission Reductions by Bboxx Energy Solutions (Clean Cook)

July 2022

Agenda

1 Introduction & Objectives

2 Project description: Localization, technology, scope

3 Implementation plan

4 Contributing Greenhouse Gas emission reduction

5 Sustainable Development Goals

6 Monitoring plan

7 Safeguarding principles & requirements

8 Grievance and input mechanism

9 Q&A session

10 Closing and next steps

Introduction and Objectives

Aiming to contribute to solve one of the major global problems, energy poverty, the objective of the project is to provide affordable, reliable, and clean energy services to the population (rural or urban) of Rwanda

Objectives

The objective of the physical meeting is to inform the relevant stakeholders of the project details and ensure that stakeholders are provided with an opportunity to influence project design implementation an operation by interacting with Bboxx.

Exchanging views and concerns in a free and transparent manner

Bboxx – Transforming lives and unlocking potential

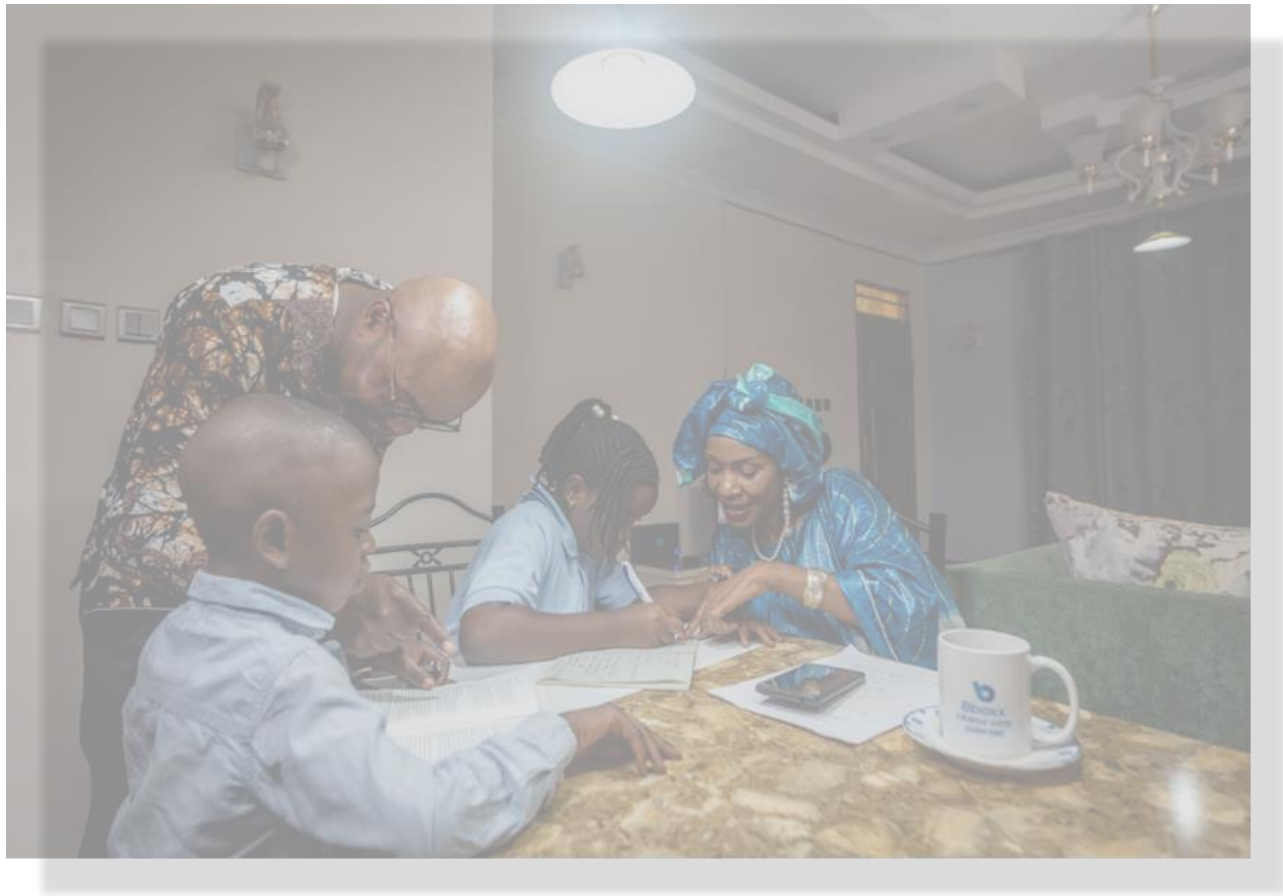
Bboxx is a next generation utility, transforming lives and unlocking potential through access to energy. Bboxx manufactures, distributes and finances decentralised solar powered systems in developing countries. It is scaling through forging strategic partnerships and its innovative technology **Bboxx Pulse**®, a comprehensive management platform using IoT technology. Through **affordable, reliable, and clean utility** provision, Bboxx is bringing people into the digital economy, creating new markets, and enabling economic development in off-grid communities and those living without a reliable grid connection. The company wants positively impact the lives of **millions people** with its products and services in over 27 markets, directly contributing to 11 of the 17 United Nations Sustainable Development Goals.

Bboxx will be the entity responsible of project implementation and technology commercialization.

Project Description

The project activity consists of the distribution, installation and use of the Bboxx **efficient LPG stoves**, aiming to promote the efficient use of innovative technologies for reducing greenhouse gas emissions by replacing inefficient traditional cookstoves by efficient LPG stoves (AC0342, AC0363 and AC03730101 models), for domestic and commercial applications at an affordable price.

Duration of the first stage of the project is 5 years



Location

Rwanda

The geographic coordinates of the project are 1°56'25'' S 29°52.433' E

Our technology: Clean Cooking

Efficient Gas Stoves

Efficient gas stoves designed for rural and urban households that want to transition to LPG

12.5 kg Cylinder

Urban and rural households and microbusiness

6 kg Cylinder

Urban and rural households

Our technology: Clean Cooking

Technology	Total heat input	Heat efficiency
AC0342	6.0 Kw	59%
AC0363	6.0 Kw	52%
AC03730101	6.0 Kw	55%

Long-term relationship with customers through digital & physical highways

Bboxx

Physical highway:
Launching with 12 agents and 2 shops in Rwanda

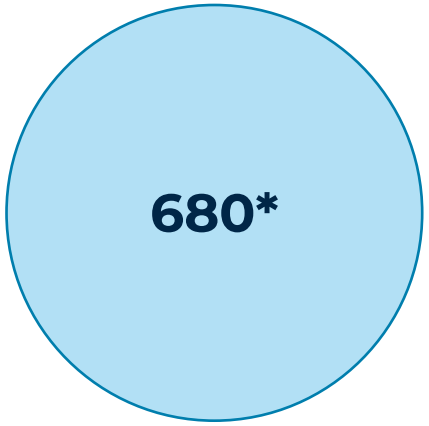
Bboxx Pulse®

Digital highway:
Pulse, a comprehensive management platform for scale and wider service

Implementation plan

- Bboxx started pilot project of efficient LPG stove in **2019**.
- Launching second pilot with **1000 stoves**.
- We make our service affordable by offering stove and canister on 6-months credit.
- Gas to be refilled as needed.
- We plan to deploy more than **180,000** stoves by 2030.

Implementation plan



Number of users with AC0342 model

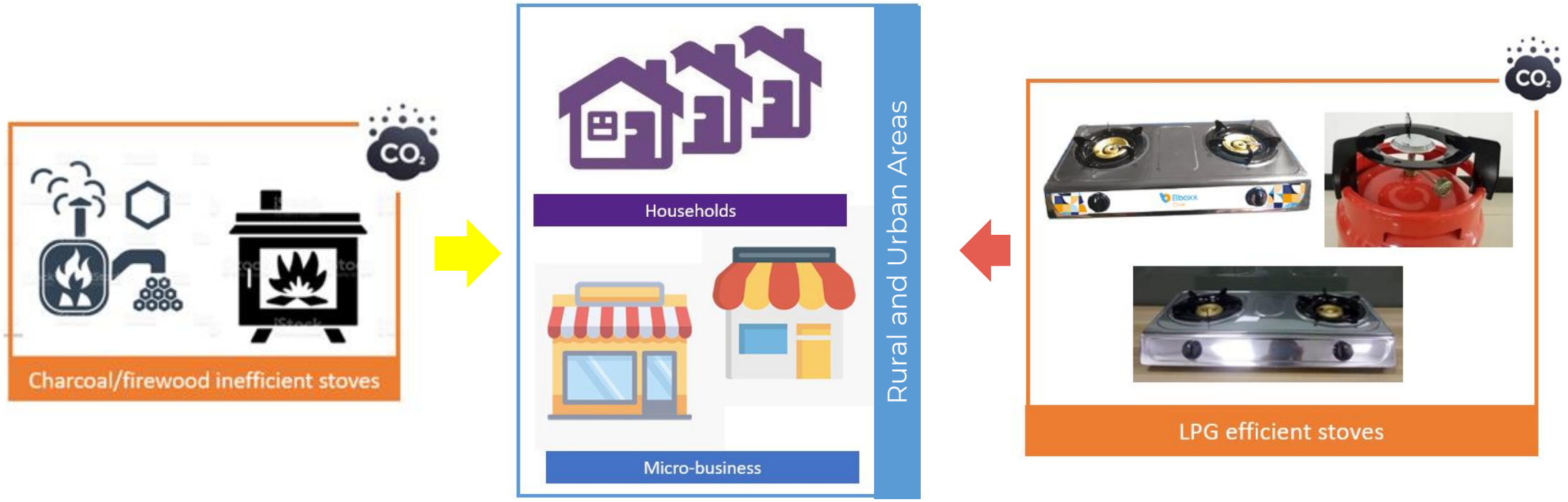
*From May to December 2021

Starting from 2023 we expect to distribute:

- AC0363
- AC0373010

To achieve 60,000 tCO_2e of emission reductions.

Contributing Greenhouse Gas emission reduction~Baseline vs Project scenario



BASELINE SCENARIO EMISSIONS

common practice

EMISSION REDUCTIONS

difference = reduction

PROJECT SCENARIO EMISSIONS

Bboxx service

Safeguarding principles & requirements

Principle 1: Human rights

The project developers are aware of the importance of respecting human rights. The project will not discriminate with regards to participation as the clean cook stoves can be purchased by credit and used by anyone who is located within the geographical boundaries of the VPA.

Principle 2: Gender Quality

The implementation of the project activity does not contribute to adverse impacts on gender equality. The project activity will not restrict in any way women's rights or access to clean energy services.

Principle 3: Community Health, Safety and Working Conditions

The project activity does not expose the community to increased health risks.

Safeguarding principles & requirements

Principle 4: Social

The project does not include sites with traditional, or religious values. There is no need to cause physical or economic relocation of people at any level. The project does not require changes to land tenure arrangements.

Principle 5: Corruption

The project shall not involve, be complicit in or contribute to reinforce corruption.

Principle 6: Rights and negative economic consequences

Employment generated under this project follows the Labor Law N° 66/2018 of 30/08/2018. The project has positive economic consequences since it is based in the commercial model PAYG.

Safeguarding principles & requirements

Principle 7: Emissions ✓

The project will provide reductions in comparison to the baseline scenario. The project involves the use of clean cooking system, improving the air quality and prevent deforestation resources that could impact other local users.

Principle 8: Project emissions ✗

Indirect negative impacts: Project emissions due to road and sea transportation of LPG.

Principle 9: Natural resources ✓

The project does not negatively impact natural or existing patters of watercourses, not involve any activity that may causes erosion and/or water body instability.

Safeguarding principles & requirements

Principle 10: Implementation and disposal

Not involve the use of land and soil, no connection with increasing vulnerability to any extreme climatic condition, reduces the amount of air pollutants in comparison to the baseline.

Not involve the application of pesticides and/or fertilizers, no harvesting of forests, no impact on the quantity or nutritional quality of food available or no animal butchery. Not include High Conservation Value areas and no endangered species are identifies.

UN Sustainable Development

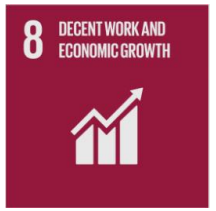
PROJECT IMPLEMENTATION

CONTRIBUTION

SUSTAINABLE DEVELOPMENT GOALS

SDG13: Amount of GHGs emissions avoided or sequestered

Reduce of GHGs emissions (tonCO_2e/year)

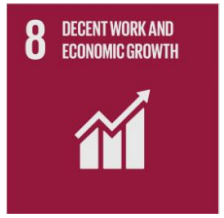


SDG8: Creation of new direct and indirect employment and income opportunities for the local community generated by the project activity

SDG7: Ensure to the communities, households, small business, among others, access to affordable, reliable, and modern energy services to improve quality life.

Monitoring plan

Monitoring plan SDG 13: Thermal efficiency of the project device
Amount of fuel used in the project in by device



Monitoring plan SDG 8: Total number of employees
Employees by employment contract (direct and indirect) and type (full-time and part-time), by gender

Monitoring plan SDG 7: Number of projects devices distributed
Active end-users' proportion that use the project devices
Household size

Grievance and input mechanism

Discussion of potential options for input, feedback and grievance mechanism

Provide stakeholders an opportunity to submit any feedback or raise grievances during the entire project life

Example: Continuous Input and Grievance Expression Process Book available at an agreed location

Consider the comments provided by the Stakeholders and report on how the comments have been accounted for

Provide Stakeholders with the feedback on how their comments have been taken into account

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Q&A session

Views on project contribution, opportunities for improvement, suggestions and/or specific questions about the project. Please complete this format:

Name	
Gender	
Designation/Village	
What is your understanding of the project?	
What did you like about the project?	
Any suggestion for improvement of the project?	
Other comments	

Thank you.

Bboxx