

Promoting Climate Friendly Coffee Production by Reducing and In/Offsetting Greenhouse Gas Emissions

Section 1: Concept Overview

Project Objective: The project aims to carry out a scientific, comprehensive, and transparent evaluation of GHG emissions, potential for reduction potential, as well as in- and offsetting possible measures. The project will enable the taking of appropriate action in order to achieve climate neutrality in the long-term.

- **Brief Description:** Agriculture is one of the main greenhouse gas (GHG) emitters which contributes to climate change, with coffee production being no exception to this. Deforestation and land use change are the major sources of coffee GHG emissions. A large share also stems from coffee cultivation and production systems: intensive fertilizer and pesticide use, energy-consuming machines, and inefficient wastewater management, among others. Measuring GHG emissions is the first crucial step to understand and quantify the negative impact of coffee on the environment and to take action to mitigate these impacts.

Country of Focus: Any coffee producing country

Key Performance Indicators:

Indicator	Metric	Baseline	Project Target
Increased supply of climate friendly coffee	Metric tons	Initially defined production capacity of the sourcing area	100% of initially defined production capacity of the sourcing area
Reduced overall GHG emissions through avoidance measures	Tons of CO2 emitted	Status to be accessed at start of project	To be defined according to project specifics
Reduced overall GHG emissions through reduction measures	Tons of CO2 emitted	ditto	ditto
Reduced overall GHG emissions through insetting measures	Tons of CO2 emitted	ditto	ditto
Reduced overall GHG emissions through offsetting measures	Tons of CO2 emitted	ditto	ditto
Obtain the 4C climate friendly coffee certification	Issued 4C climate friendly coffee certificate	No certificate	With certificate

Please indicate how this project aligns with the 2025 Targets:

- Resilient supply
 Improve well-being & prosperity
 Strengthen market demand
 Conserve nature

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Project Status: New project planned to commence soon



Project Timeline: Start date: At any time End date: Three years

Section 2: Partnerships

Involved Parties:

Organization Name	Role in Project	Contribution
4C Services GmbH	Project manager	In-kind, with expertise in good agricultural practices
Meo Carbon Solutions GmbH	Project implementer	In-kind, with expertise in GHG emissions calculation and in/offsetting measures
Industry partners	Project industry partner	Financial and with expertise in the coffee sector as buyer of sustainable coffee
Local partners	Project implementers	In-kind, local expertise in coffee supply chains and/or in GHG emissions and in/offsetting measures

Expectations for Partner Engagement:

This project is fit for partners who are willing to make sustainability commitments with a uniquely designed and impact-driven project. Potential partners proactively address the issue of climate change and contribute to SDG 12, Responsible Consumption and Production, and SDG 13, Climate Action. This project will provide partners an opportunity to become not only a sustainability forerunner but also an innovator in the market, investing in and sourcing climate friendly coffee while working towards carbon neutrality in its supply chain. Ideally, partners to this project would like to add an exclusive and innovative project to their sustainability portfolio, which showcases corporate responsibility and creates brand awareness.

Deadline for partnership opportunities: 12/31/2022

Section 3: Funding

Project Costs:

Total project costs	To be defined with project industry partner
Secured funding	0
Funding needed	ditto

Explanation of Funding Use: Funds are needed to implement the steps within the structure of the project:

1. Supply chain mapping and identification of emission sources.
2. Development of a baseline calculator and emissions calculation.
3. Identification of measures to avoid, reduce and inset emissions, exploring offsetting options for unavoidable emissions.
4. Issuance of technical bulletin with recommendations on improvement measures to avoid, reduce, inset, and offset emissions.
5. Integration of GHG emission measures in partners supply chain.
6. Monitoring and evaluation of results to identify progress on implementation of recommended measures.
7. Recalculation of GHG emissions in supply chain to evaluate results from the project.

For more information on this project, please contact Miriam Trinker at trinker@4C-Services.org