

[COLOMBIA/CORPORACIÓN ANDINA DE FOMENTO (CAF)]



GREEN
CLIMATE
FUND

GLOBAL
PROGRAMMING
CONFERENCE

Project title

Low-Emission and Climate Resilient Agriculture in Colombia

Result areas

Forestry and land use
Most vulnerable people and communities
Health and well-being, and food and water security

Sector

Public

Total financing, USD

83,008,025

GCF financing, USD

47,000,000

Financial instrument

Grant/Loan

Description of specific climate change problem and how the project will address it

Agriculture is one of the sectors most affected by climate change and local farmers do not yet have producer practices adapted to climate changes, and are vulnerable to high losses due to sudden or larger than expected weather variability. Amongst the most relevant impacts on agriculture generated by climate change in Colombia include:

- Losses in livestock sector both in number of animals, and productivity
- Losses in crop yields
- Decrease in water availability
- Increase in land erosion
- Decrease in top soil moisture
- Increase of pests and diseases incidence
- Decrease of food and nutritional security

The project will enable the adoption of Low-Emission Climate Resilient Agriculture (LECRA) in Colombia, through the **strengthening of agriculture and livestock producer associations in seven prioritized crops**: rice, maize, banana, sugarcane, coffee, potato, and forage, and research institutions for mitigating and adapting to climate change. The project will help avoid economic losses resulting from climate change effects on agriculture and livestock production, increasing resilience to extreme weather and climate impacts.

Alignment with key country priorities and stakeholders engaged

The project is aligned to the **National Development Plan 2018-2022** and the Pact for Sustainability as well as the **National Adaptation Plan** which includes Agriculture Production, Food Safety and Adaptation to climate change as one of the strategic lines of work. The project will contribute to **Colombia's National Determined Contribution (NDC)** which includes the AFOLU sector, is committed to reduce its greenhouse gas emissions by 20% with respect to the projected Business-as-Usual Scenario (BAU) by 2030. In addition, the NDC includes agriculture as a key adaptation priority. In order to create **national, regional and local capacity building** the project will support 5 agricultural sector associations as well as 15 agro-climatic technical working sessions.

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Activities

The project will invest in key areas to strengthen the agro-livestock sector's capacity to mitigate and adapt to climate change and to increase efficiency in the use of production resource systems in prioritized regions.

1. Generation and use of agro-climatic forecasting
2. Productive gap filling through Site Specific Agriculture
3. New low carbon and resiliency oriented technological options
4. Impact assessment
5. MRV and carbon footprint
6. Water footprint assessment
7. Germplasm Bank enhancement
8. Knowledge Management Capacity building

Expected outcomes

- **Reduced economic losses** to farmers as a result of phenomena like El Niño, La Niña and other extreme weather events.
- **Government savings** generated due to the reduction in the losses of farmers.
- **Increased competitiveness of the agricultural sector**, applying simple and easily implementable measures to promote productive gaps filling.
- Improved planning of the agricultural sector preventing that impacts from weather events affect the final price structure, creating **climate-resilient value chains**.
- **GHG emission reductions from adoption of LECRA technologies** for agricultural production, as increased productivity will help mitigate the need for expanding the agricultural frontier.
- **Increased productivity due to the use of cleaner technologies**, while reducing greenhouse gas emissions and contribute to reduction targets, promoting sustainable and green development.
- **Support for three of the NDC priority regions** for adaptation measures (Caribbean, Andean and Orinoquia), and for the strategic lines of work delineated by Colombian adaptation policies.
- Novel crop diversity for the development of improved crops and **increasing resilience of food security**.

Paradigm shift potential

This project will invest in the implementation of adaptation measures of the agriculture sector in prioritized crops and locations in Colombia which will further **expand throughout the country, as the different sectors start replicating the project experience**. In addition, the project will generate the necessary knowledge to build new agriculture technological capacities, empowering producers to launching similar projects on their own.