

NR-338 - Rice production NAMA

Panama

NAMA for Recognition

A Overview

A.1 Party

Panama

A.2 Title of Mitigation Action 

Rice production NAMA

A.3 Description of mitigation action

The average rice consumption per capita in Panama is 162 lb/person/year. Rice is one of the elemental components of Panamanian food, in urban and rural areas.

Approximately, of the 96,000 ha devoted to rice production, 59,000 ha are produced by the mechanized system and 37,000 ha by the traditional and rudimentary system “a chuzo”. The increasing demand for this crop by the Panamanians, coupled with the effects of climate change, threaten this sector. It is important to emphasize that rice cultivation is one of the leading sources of methane emissions in the atmosphere.

Under the initiative of the Ministry of Agricultural Development, together with the Interamerican Institute of Cooperation on Agriculture (IICA) and the financial support of EUROCLIMA+, the rice production NAMA has been developed for the Republic of Panama. The title of this project is “Support for the formulation of appropriate mitigation actions on Central American agriculture”.

The proposed objectives include:

1. Reduce CH₄ emissions through the most appropriate practices of water management in rice production.
2. Introduce rice varieties with less water dependency.
3. Reduce N₂O emissions by nitrogen use efficiency seeds that require fewer fertilizers.
4. Optimizing nitrogen fertilizers use through the most appropriate farmer techniques for the crops, soil, and environmental conditions.
5. Promote associativity with incentives and financial support to rice farmers associations to implement mitigation actions coming from this program.
6. Monitoring of crops to optimize the application of pesticides.

The rice production NAMA was submitted on the UNFCCC NAMA Registry, under the category of NAMAs seeking financial support for implementation.

A.4 Sector

☐ Energy supply

☐ Transport and its Infrastructure

☐ Residential and Commercial buildings

☐ Industry

☒ Agriculture

☐ Forestry

☐ Waste management

A.5 Technology	☐ Other	
	☐ Bioenergy	☐ Cleaner fuels
	☐ Energy Efficiency	☐ Geothermal
	☐ Hydropower	☐ Solar Energy
	☐ Wind Energy	☐ Ocean Energy
	☐ Carbon Capture and Storage	☐ Low till / No till
	☐ Land fill gas collection	
A.6 Type of action	☐ Other	
	☐ National/ Sectoral goal	☐ Project: Investment in machinery
	☐ Strategy	☐ Project: Investment in infrastructure
	☒ National/Sectoral policy or program	☐ Project : other
	☐ Other	
A.7 Greenhouse gases covered by the action	☐ CO2	☒ CH4
	☒ N2O	☐ HFCs
	☐ PFCs	☐ SF6
	☐ Other	

B National Implementing Entity

B.1.0	Name	Ministry of Agricultural Development of Panama
B.1.1	Contact Person 1	Rodrigo Luque Torres
B.1.2	Address	
B.1.3	Phone	6490-0429
B.1.4	Email	rluque@mida.gob.pa
B.1.5	Contact Person 2	
B.1.6	Address	
B.1.7	Phone	
B.1.8	Email	
B.1.9	Contact Person 3	
B.1.10	Address	

B.1.11	Phone	
B.1.12	Email	
B.1.13	Comments	

[Add Additional Entity](#)

C Expected timeframe for the implementation of the mitigation action

C.1	Number of years for completion	12
C.2	Expected start year of implementation	

D Currency

D.1	Used Currency	USD
Conversion to USD: 1		

E Cost

E.1.1	Estimated full cost of preparation	
Conversion to USD: 0		
E.1.2	Comments on estimated full cost of preparation	
E.2.1	Estimated full cost of implementation	
Conversion to USD: 0		
E.2.2	Comments on estimated full cost of implementation	
E.3.1	Estimated incremental cost of implementation	
Conversion to USD: 0		
E.3.2	Comments on estimated incremental cost of implementation	

F Estimated emission reductions

F.1	Amount	
F.2	Unit	MtCO2e
F.3	Additional information (e.g. if available, information on the methodological approach followed)	Currently, an emission reduction goal has not been established. Emission estimation methodologies compatible with the 2006 IPCC Guidelines will be used. Direct measurements of CH4 and N2O on site will be conducted with portable equipment. Based on the results obtained from the real emissions, the generated value will be estimated through modeling. Statistical analysis will be performed to guarantee the value coming from the measurements and their uncertainty. The sampling will be conducted during the production cycle. ACV (simapro) software and CompiteMAS@ platform will be used for data analysis. A mapping of GHG concentrations and distributions will be carried out in specific sampling areas, indicating the productive period when

G Other indicators

G.1 Other indicators of implementation The creation of a monitoring and evaluation system is intended to measure periodic progress

H Other relevant information

H.1 Other relevant information including co-benefits for local sustainable development

These are the intended actions to achieve our goal:

Development of an analysis to identify mitigation actions applicable to the agricultural sector giving attention to rice production in Panama, including in the Updated NDC1.

I Relevant National Policies strategies, plans and programmes and/or other mitigation action

I.1 Relevant National Policies

I.2 Link to other NAMAs

(none)
Sustainable Housing Programme
High Integration Program of Wind Energy
Implementation of a National Forestry and Climate Change Strategy, including the development and implementation of a Platform for the Generation and Trading of Forest Carbon Credits.

J Attachments

J	Attachments	<table><tr><th>Title</th><th>Description</th></tr><tr><td colspan="2">No records to display.</td></tr></table>	Title	Description	No records to display.		
Title	Description						
No records to display.							
J.1	Attachment description						
J.2	File	Choose File No file chosen					

Upload File