NS-210 - Energy Efficiency Improvement in the Tea and Coffee Sector in Rwanda

Rwanda

NAMA Seeking Support for Preparation

A.2 Title of Mitigation Action

A.3 Description of mitigation action

A Overview

Rwanda

Energy Efficiency Improvement in the Tea and Coffee Sector in Rwanda

This Nationally Appropriate Mitigation Action (NAMA) targets mitigation through the promotion of energy efficiency activities in the Tea and Coffee sector in Rwanda based on specific incentives and demonstration projects. Both industries are private sector based, and the promotion of energy efficiency will focus on energy intensive activities in the tea and coffee industry pertaining to thermal energy and electrical energy requirements, namely roasting, drying, processing and packaging. Envisioned actions under the NAMA would be to: demonstration of selected energy efficient technologies in existing production; to establish an energy efficiency standards for all new factories; promote international eco-labelling; promote energy management, auditing and reporting; and national best practice sharing.

Emission reductions:

The NAMA is expected to achieve a net emission reduction of up to 143,000 tCO2e for the period 2016-2030 through a series of technical and non-technical interventions.

Sustainable Development benefits:

The mitigation actions support Rwanda's national development and poverty reduction policies and strategic visions and goals. It is envisioned that significant sustainable co-benefits of the NAMA include:

- Reduced consumption of carbon intensive fuels (fossil fuel based electricity and heavy fuel oil) and lower consumption of wood based fuels.
- Improved the quantity and quality of tea and coffee due to improved roasting/drying techniques.
- Reduce the cost of production and a more sustainable value chain.
- Best practices sharing to other industries and new businesses that are being established (replication potential).
- Increased exports, and upstream economic benefits.
- Improvements in the tea and coffee sectors will increase employment opportunities and income generation.
- Cross sectoral opportunities with the agricultural sector will

	encourage the development of a and improved cultivation of tea	vibrant agro-processing industry and coffee.
	Private Sector involvement: The tea and coffee sector is currently private sector driven, and consists of 'estates' or industrial blocs (plantations integrated to a processing unit), tea/coffee grower cooperatives (for labourers), tea/coffee growers association (for owners), and small holders. The NAMA will integrate the interests of all stakeholders in raising awareness and knowledge management for energy efficiency activities. Thus, encouraging private sector investments in the energy efficiency activities, and more efficient growing and processing practices.	
A.4 Sector	Energy supply Residential and Commercial buildings Agriculture Waste management	Transport and its Infrastructure X Industry Forestry
A.5 Technology	Other	
	Bioenergy X Energy Efficiency Hydropower Wind Energy Carbon Capture and Storage Land fill gas collection	Cleaner fuels Geothermal Energy Solar Energy Ocean Energy Low till / No till
A.6 Type of action	National/ Sectoral goal Strategy X National/Sectoral policy or program	X Project: Investment in machinery Project: Investment in infrastructure Project : other
A.7 Greenhouse gases covered by the action	Other XCO2 N2O PFCs	CH4 HFCs SF6
P Notice	Other Entity	
B.1.0 Name B.1.1 Contact Person 1	onal Implementing Entity Rwanda – Ministry of Infras Mrs. UWERA Mireille	structure (MININFRA)
B.1.2 Address B.1.3 Phone B.1.4 Email B.1.5 Contact Person 2 B.1.6 Address	KG 7 Ave., P.O. BOX 24, Kigali, Rwanda +250788509527 mireille.uwera@mininfra.gov.rw Mr. Jean Claude MUTABAZI	
B.1.7 Phone B.1.8 Email	jclaude.mutabazi@mininfra	.gov.rw

B.1.9 Contact Person 3			
B.1.10 Address			
B.1.11 Phone			
B.1.12 Email			
B.1.13 Comments			
C Expected timeframe fo	r the preparation of the mitigation action		
C.1 Number of	of months for completion 15		
	D Currency		
D.1 Used Currency	AED		
	Conversion to USD: 1		
E Cost			
E.1.1 Estimated full cost of preparation	285000		
E.1.2 Comments on full cost of preparation	The full cost of preparation covers the cost of preparation for		
	the NAMA Design and Document, and a comprehensive		
	Feasibility Study for energy efficiency and savings. As well as		
	institutional level Capacity Development Support for NAMA		
	finance and MRV. Note that the Climate Change Focal Point (Rwanda		
	Environmental Management Authority) and the National		
	Implementing Entities will provide in-kind programme		
	management, institutional coordination, and procurement		
	services during the preparation phase of the NAMA. This in-		
	kind contribution is not included in the estimated full cost of		
	preparation.		
F Support require	d to prepare the mitigation action		
F.1.1 Amount of Financial support	195000		
F.1.2 Type of required Financial support	X Grant Guarantee		
	Loan (sovereign) Equity		
	Loan (Private)		
	Concessional loan		
	Other		
F.1.3 Comments on Financial support	Preparation of NAMA Design and Document:		
	This consists of the activities and cost of full NAMA design and		
	it's documentation, including the institutional framework,		
	implementation planning, financial structuring, support		
	required, and MRV system design and management. (USD 110,000)		
	Feasibility Study:		
	The full feasibility study will focus on the best in class		
	technologies available internationally for implementation in the		
	tea and coffee sector and possible interventions in each of the		
	tea and coffee processing units, to include a sectoral wide		
F2.14	technology use survey. (USD 85,000)		
F.2.1 Amount of Technical support			
F.2.2 Comments on Technical support	00000		
F.3.1 Amount of capacity building support	90000		
1	Individual level		
F.3.1 Amount of capacity building support			

	Other	
F.3.3 Comments on Capacity Building support	Workshop for institutional capacity building for climate finance	
	and financial structuring in priority sectors of NAMAs seeking	
	support for implementation. Focus is on meeting general	
	international requirements, and specific requirements of	
	selected support facilities. (USD 45,000)	
	Workshop for institutional capacity building for MRV systems	
	and their structuring in priority sectors of NAMAs seeking	
	support for implementation. Focus is on the institutional framework for MRV and the tracking of mitigation actions,	
	finance and sustainable benefits in a performance based	
	methodology. (USD 45,000)	
F.4 Financial support required		
F.5 Technological support required		
F.6 Capacity support required		
G Relevant National Policies strategies, plans and programmes and/or other mitigation action		
G.1 Relevant National Policies	The planned NAMA is in line with all relevant national and	
	sectoral policies, which are as follows:	
	A) Key policy linkage to the national Green Growth and Climate	
	Resilience strategy with a focus on low carbon development to 2020 and a vision for 2050. The key linking programmes are:	
	- Programme 7: Green Industry and Private Sector	
	Development; Action 1: Resource Efficient Industries (key	
	indicators = GHG emissions, water usage); Action 3: Promoting	
	Green Technologies (key indicator = No. of new green	
	technologies employed).	
	B) Rwanda National Export Strategy:	
	The NAMA will support the need for improved investments in	
	factories, both in terms of expanding factory capacity, support	
	product diversification and particularly contribute towards	
	'Improving operational efficiency of washing stations' and 'Increase production levels'.	
	C) NAEB's Strategic Plan (2013-2018):	
	The NAMA will directly support the strategic objectives of	
	'enhancing value and assuring quality of export commodities'	
	and increasing their demand and price on national, regional and	
	international markets, improve business operating environment	
	and enhance inter-institutional coordination.	
G.2 Link to other NAMAs	•	
	H Attachments	
H Attachments	Title Description	
H.1 Attachment description		
H.2 File	Browse	
	I Support received	
I.1 Outside the Registry	**	
I.2 Within the Registry	Support provided SupportType Amount Comment Date	
	F.F F	