NS-207 - Developing a Sustainable Charcoal Value Chain in Rwanda

Rwanda

NAMA Seeking Support for Preparation

	A Overview
A.1 Party	Rwanda
A.2 Title of Mitigation Action	Developing a Sustainable Charcoal Value Chain in Rwanda
A.3 Description of mitigation action	This Nationally Appropriate Mitigation Action (NAMA) targets mitigation in the LULUCF / Forestry sector in Rwanda and focuses on the improving the sustainability of charcoal production, transportation and retail including the stakeholders involved, plus policy framework and institutional framework. The NAMA will compliment and strengthen on-going and proposed activities related to improved forest management (e.g. under REDD+ program) and distribution of efficient cookstoves (existing CDM PoAs and cookstove programs). In this context the charcoal value chain is predominately private sector oriented in Rwanda, strengthening the value chain will make the private sector activities more sustainable.
	Emission reductions: For the projected NAMA period of 2016 – 2030, the direct estimated net GHG emission reductions are approximately 5,770,000 tCO2e based on carbon sequestration potential from avoided deforestation.
	 Sustainable Development Benefits: These mitigation actions result in significant, meaningful and measureable reductions in GHG emissions while concurrently supporting Rwanda's national development and poverty reduction policies and strategic visions and goals. Specific sustainable co-benefits of the NAMA include: Measurable decrease in demand of wood resources leading to reduced deforestation, improved soil conditions, waterway conditions from decreased runoff, and forest health. Decreased air pollution as improved kilns can significantly reduce air pollution from the carbonisation process. Improving productivity in production leading to lower costs or operation. Limiting the impact of extreme energy poverty, via better use resources. Improved and more efficient access to markets for producers, distributers, and consumers.
	Private Sector Participation:

informal private sector driven system. Informal is terms of individuals or groups of individuals acting together. One of the core goals of the NAMA is to increase the number of formal private sector enterprises (companies & cooperatives) within the value chain. It is envisioned, that fairer payments for charcoal producers and increased tax revenues, would be utilized to strengthen the value chain, thus enhancing private sector participation and resource sustainability.

A.4 Sector	Energy supply Residential and Commercial buildings Agriculture Waste management	Transport and its Infrastructure Industry X Forestry
	Other	
A.5 Technology	Bioenergy XEnergy Efficiency Hydropower Wind Energy Carbon Capture and Storage Land fill gas collection	X Cleaner fuels Geothermal Energy Solar Energy Ocean Energy Low till / No till
	Other	
A.6 Type of action	National/ Sectoral goal X Strategy X National/Sectoral policy or program	Project: Investment in machinery X Project: Investment in infrastructure Project : other
	Other	
A.7 Greenhouse gases covered by the action	XCO2 N2O PFCs Other	X CH4 HFCs SF6
B Nation	nal Implementing Entity	
B.1.0 Name B.1.1 Contact Person 1 B.1.2 Address	Rwanda – Ministry of Natura Rwanda Natural Resources A Mr Jean Claude MUTABAZI	Authority (RNRA)
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B.1.11 Phone	+250788822928	
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B.1.13 Comments				
C Expected timeframe for the preparation of the mitigation action				
C.1 Number of months for completion 24				
	D Currency			
D.1 Used Currency				
	AED			
	Conversion to USD: 1			
	E Cost			
E.1.1 Estimated full cost of preparation	471000			
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			
	Survey. 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.			
	ed to prepare the mitigation action			
F.1.1 Amount of Financial support F.1.2 Type of required Financial support	361000			
1.1.2 Type of required Financial support	X Grant Guarantee			
	Loan (sovereign) Loan (Private)			
	Carbon finance			
E 1.2 Commente en Eineneiel sumert	Other Preparation of NAMA Design and Document:			
F.1.3 Comments on Financial support	This consists of the activities and cost of full NAMA design and			
	its documentation, including the institutional framework,			
	implementation planning, financial structuring, support			
	required, and MRV system design and management. (USD 110,000)			
	Comprehensive Survey:			
	The comprehensive survey will build on the existing surveys,			
	reports and studies existing in Rwanda on charcoal and			
	woodfuels (e.g. WISDOM Study) and focus on updating the relevant information to the most current scenario and align them			
	to proposed approach under the NAMA which takes a holistic			
	approach in tackling the charcoal value chain. (USD 251,000)			
F.2.1 Amount of Technical support	20000			
F.2.2 Comments on Technical support	The technical support will involve establishing a pilot program			
	on efficient kiln based charcoal production and operated for a minimum of 6 months to track consumption of biomass, and			
	understand the real time challenges faced by the stakeholders			
	associated with charcoal production, transportation and retail of			
	charcoal. (USD 20,000)			
F.3.1 Amount of capacity building support	90000			
F.3.2 Type of required capacity building support				
	Institutional level			
	Systemic level			

F.3.3 Comments on Capacity Building support	Other 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 requiredF.5 Technological support requiredF.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 12: Sustainable Forestry, Agroforestry and Biomass Energy; Action 1: Improved Afforestation/Reforestation (Key indicators = Survival rates and area coverage of trees planted); Action 2: Improved Forest Management (key indicator = % degraded forests rehabilitated); Action 4: ICS promotion and charcoal licensing (key indicator = % Dissemination and use of ICS) B) Biomass Energy Strategy (BEST) The NAMA will focus on identifying synergies with focus areas under the BEST namely, 1) increased and sustainable supply of wood fuels and professionalizing the charcoal value chain , 2) increased efficiencies in the use of wood and charcoal, 3) promotion of alternative cooking fuels (LPG, peat, biogas) and 4) increased capacity of Government agencies dealing with biomass. C) National Energy Policy, 2011: The NAMA directly contributes to the 2 of 3 components of the biomass strategy namely, producing more biomass through better management of plantations and removal of restrictions on cutting and transport of wood and charcoal, and saving biomass through more efficient charcoal production and improved stoves (for both wood and charcoal) D) SE4All, Rwanda, 2015 The NAMA will contribute to biomass target in the SE4All which notes that renewables shall account for 80% of the share of all cooking fuels in Rwanda by 2030 E) Update and Upgrade document for Rwanda Supply Master Plan for fuelwood and charcoal, 2013 and the WISOM Rwanda Study:			

		The two documents provides a sound basis for the development of the NAMA program.	
G.2 Li	nk to other NAMAs		
		H Attachments	
Н	Attachments	Title Description	
H.1	Attachment description		
H.2	File	Browse	
I Support received			
I.1 Ot	itside the Registry		
I.2 Wi	thin the Registry	Support provided SupportType Amount Comment Date	