NS-269 - Appropriate Mitigation Actions in Energy Generation and End Use Sectors in Sri Lanka

Sri Lanka

NAMA Seeking Support for Implementation

A.1 Party

A.2 Title of Mitigation Action

A.3 Description of mitigation action

A Overview

Sri Lanka

Appropriate Mitigation Actions in Energy Generation and End Use Sectors in Sri Lanka

Sri Lanka is highly dependent on imported oil to meet its energy needs with 49% of the primary energy supply coming from imported fuel, where 12% of the total government budget is used for electricity generation alone. This is leading to a heavy reliance on imported fossil fuels and increased GHG emissions. The National Energy Policy of Sri Lanka seeks to diversify supply mix with renewable energy resources whilst seeking to reduce energy demand through demand side management. The Renewable Energy Resources Development Plan seeks to achieve 20% from renewable energy re-sources by 2020 and 30% by 2030 as part of the national strategy to reduce GHG emissions through appropriate mitigation actions (NAMA). Energy Management Plan (EnMAP) seeks to achieve energy savings from the promotion of EE measures. Often the GHG savings and the cost-benefits of these low carbon interventions are not systematically quantified and their benefits remain obscure and done on ad-hoc basis. It is difficult for sub-national entities to assess the impact of their NAMA interventions at the sectors and sub-sectors level.

In order to fill these gaps, the development of a robust, transparent and functional NAMA framework along with clear inventory and MRV system with supporting governance and oversight (NAMA Secretariat, NAMA Coordinating Entity, NAMA Implementing Entity, MRV Committee, NAMA Institutional mechanism, NAMA Approval procedure and NAMA Registry) is needed. Such framework will systematically quantify GHG savings and benefits of the mitigation interventions using a bottom up approach to aggregate from the provincial and sub-sector levels to the national and sectors level. Furthermore, such a transparent framework will open up opportunity to access regional and international climate funding. In order to achieve this, the project will support appropriate climate change mitigation actions in the energy generation and end-use sectors as part of the initiatives to achieve the voluntary GHG mitigation targets of Sri Lanka

	To test and verify the framework overcome the regulatory, institutions social barriers for the scaling up the dissemination of 1,000 biodimotors in tea factories, and 205 with battery storage. Furthermore	tional, technical, financial and of RE and EE NAMA through digesters, 1,300 high efficiency solar PV net metering systems
	1. Develop a robust provincial in updated periodically and aggreg web-based EnerGIS database m	ated at the national level using
	2. Develop a decision making to analyzing and prioritizing a pipe could be implemented	
	3. Leverage public, private and NAMA Implementing Entity for RE and EE NAMAs based on vimodels to incentivize value chain and create demand and	r the implementation of bankable iable and cost effective business
	4. Develop a robust and transparaccurate, reliable and credible and	•
A.4 Sector	X Energy supply Residential and Commercial buildings Agriculture Waste management	Transport and its Infrastructure Industry Forestry
A.5 Technology	Other X Bioenergy	Cleaner Fuels
	X Energy Efficiency Hydropower Wind energy Carbon Capture and Storage Land fill gas collection	Geothermal energy X Solar energy Ocean energy
	Other	
A.6 Type of action	X National/ Sectoral goal Strategy National/Sectoral policy or program	X Project: Investment in machinery Project: Investment in infrastructure Project: Other
	Other	
A.7 Greenhouse gases covered by the action	XCO2	XCH4
	N2O PFCs	☐HFCs ☐SF6
	Other	
B National Implementing Entity		
B.1.0 Name Sri Lanka Sustainable Energy Authority		

B.1.1 Contact Person 1 B.1.2 Address B.1.3 Phone B.1.4 Email 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	Mr. Harsha Wickramasinghe,Deputy Director General Block 5,1st Floor,BMICH, Baudhaloka Mawatha, Colombo 7 009411- 2 677 445 harsha@energy.gov.lk	
	ne implementation of the mitigation action	
C.1 Number of years for c	-	
C.2 Expected start year of	-	
	D Currency	
D.1 Used Currency	AED	
	Conversion to USD: 1	
	E Cost	
E.1.1 Estimated full cost of im		
E.1.2 Comments on full cost of	-	
E.2.1 Estimated incremental c	=	
E.2.2 Comments on estimated	incremental cost of	
implementation	ne implementation the mitigation action	
	1790411	
F.1.1 Amount of Financial support F.1.2 Type of required Financial support		
17.1.2 Type of required Financial support	Guarantee	
	Loan (sovereign) Equity	
	Loan (Private) Carbon finance	
	Concessional loan	
	Other	
F.1.3 Comments on Financial support	Requested financial support need for	
	1. To establish the MRV framework in the country	
	2. To build the capacity of relevant parties	
	3. To implement the pilot projects such as Solar,Biogas and	
	HEM A To establish the provincial level GHG inventory	
F.2.1 Amount of Technological support	4. To establish the provincial level GHG inventory	
F.2.2 Comments on Technological support		
F.3.1 Amount of capacity building support		
F.3.2 Type of required capacity building support	X Individual level	
At 1 The rate of the same of t	X Institutional level	
	X Systemic level	
F2.2C	Other	
F.3.3 Comments on Capacity Building support		
F.4 Financial support for implementation required		

I	echnological support for implementation equired		
F.6 C	apacity Building support for implementation	ion	
	G Estim	nated emission reductions	
G.1 Ar	nount	16126	
G.2 Ur	nit	MtCO2e	
inf	dditional imformation (e.g. if available, formation on the methodological approach llowed)	Amount of emission reduction applies to end of the project	
	F	H Other indicators	
H.1 Ot	her indicators of implementation	1. Three pilot projects such as Bio Gas, Solar PV and HEM	
		2. MRV Framework	
		3. NAMA National Registry system	
I Other relevant information			
I.1		Other relevant information including co-	
		benefits for local sustainable development	
		es, plans and programmes and/or other mitigation action	
J.1 Rele		National Climate Change Policy National Action Plan for <i>Haritha</i> (Green) Lanka Strategy and Action Plan (HLSAP) Sendan Sustainable Energy Authority (SLSEA) 6	
J.2 Linl	k to other NAMAs	,	
K Attachments			
K	Attachments	Title Description	
K.1	Attachment description		
K.2	File	Browse	
L Support received			
L.1 Ou	tside the Registry	Global Environment Facility under GEF Cycle 5	
L.2 Wit	thin the Registry	Support SupportType Amount Comment Date	
		Global Support 8/14/	
		Environment Financial 1,790,411 Received 2017	
		Facility (GEF) under GEF 4:03:15	
		Trust Fund Cycle 5 PM	