

NS-47 - Low Carbon Climate Resilient Development Strategy

Dominica

NAMA Seeking Support for Implementation

A Overview

A.1 Party	Dominica
A.2 Title of Mitigation Action	Low Carbon Climate Resilient Development Strategy
A.3 Description of mitigation action	<p>Implementation of the Low Carbon Climate Resilient Development Strategy The rapid increase in knowledge-based environmental sustainable economic activity and the increasing pace of implementation of low carbon science and technology are fundamentally reshaping the country's priorities. Under the framework of Dominica's Low Carbon Climate Resilient Development Strategy, the Government of Dominica is focusing on integrating green principles into national economic management, planning, and managing environmental preservation and management as a key country strategy for achieving higher levels of sustained economic growth. With people being the country's most valuable resource, Dominica's Low Carbon Climate Resilient Development Strategy is based on the following objectives of: accessing appropriate low carbon and climate resilient technologies to support Dominica's continued transformation to a Greenest Economy in the Caribbean region; – building national capacity to support Dominica's continued transformation to a Green Economy; – attracting a broader range of direct foreign investments in new and emerging business opportunities; – providing training to upgrade the skills of Dominica's workforce to fully exploit business opportunities (local and regional) in the Green Economy, thereby maximizing high-skill employment opportunities required to support the continued transformation to a Green Economy. Considerable export opportunities will be created for skilled labour force working in Dominica's Green Economy as neighbouring Caribbean countries begin to explore their own climate resilient development options.</p>
A.4 Sector	<input checked="" type="checkbox"/> Energy supply <input checked="" type="checkbox"/> Residential and Commercial buildings <input checked="" type="checkbox"/> Agriculture <input checked="" type="checkbox"/> Waste management <input checked="" type="checkbox"/> Transport and its Infrastructure <input checked="" type="checkbox"/> Industry <input checked="" type="checkbox"/> Forestry <input type="checkbox"/> Other <input type="text"/>
A.5 Technology	<input checked="" type="checkbox"/> Bioenergy <input checked="" type="checkbox"/> Energy Efficiency <input checked="" type="checkbox"/> Hydropower <input checked="" type="checkbox"/> Wind energy <input checked="" type="checkbox"/> Carbon Capture and Storage <input type="checkbox"/> Land fill gas collection <input checked="" type="checkbox"/> Cleaner Fuels <input checked="" type="checkbox"/> Geothermal energy <input checked="" type="checkbox"/> Solar energy <input type="checkbox"/> Ocean energy <input type="checkbox"/> Low till / No till <input type="checkbox"/> Other <input type="text"/>

A.6 Type of action	<input checked="" type="checkbox"/> National/ Sectoral goal	<input checked="" type="checkbox"/> Project: Investment
	<input checked="" type="checkbox"/> Strategy	<input checked="" type="checkbox"/> Project: Investment infrastructure
A.7 Greenhouse gases covered by the action	<input checked="" type="checkbox"/> National/Sectoral policy or program	<input type="checkbox"/> Project: Other
	<input checked="" type="checkbox"/> Other <input type="text" value="Technical Assistance"/>	
	<input type="checkbox"/> CO2	<input type="checkbox"/> CH4
	<input type="checkbox"/> N2O	<input type="checkbox"/> HFCs
	<input type="checkbox"/> PFCs	<input type="checkbox"/> SF6
	<input type="checkbox"/> Other <input type="text"/>	

B National Implementing Entity

B.1.0 Name	Ministry of Environment, Natural Resources, Physical Pl Fisheries
B.1.1 Contact Person 1	Samuel Carrette, Permanent Secretary
B.1.2 Address	Ministry of Environment, Natural Resources, Physical Pl Fisheries
B.1.3 Phone	767 266 3282
B.1.4 Email	psagriculture@dominica.gov.dm
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	

C Expected timeframe for the implementation of the mitigation action

C.1	Number of years for completion	8
C.2	Expected start year of implementation	2012

D Currency

D.1	Used Currency	<input type="text" value="AED"/>
		Conversion to USD: 1

E Cost

E.1.1	Estimated full cost of implementation	1000000000
E.1.2	Comments on full cost of implementation	
E.2.1	Estimated incremental cost of implementation	500000000
E.2.2	Comments on estimated incremental cost of implementation	

F Support required for the implementation the mitigation action

F.1.1 Amount of Financial support	500000000	
F.1.2 Type of required Financial support	<input checked="" type="checkbox"/> Grant	<input checked="" type="checkbox"/> Guarantee
	<input type="checkbox"/> Loan (sovereign)	<input checked="" type="checkbox"/> Equity
	<input type="checkbox"/> Loan (Private)	<input checked="" type="checkbox"/> Carbon finance
	<input checked="" type="checkbox"/> Concessional loan	
	<input type="checkbox"/> Other <input type="text"/>	
F.1.3 Comments on Financial support	Ongoing discussion with the AFD for development fundin; the value of the resource and the potential equity of the Go	

	<p>Dominica in any potential geothermal energy development will also advance the progress of the development while providing a marketable resource for commercial development. The Government of Dominica has engaged the World Bank to conduct a GAP study in respect to the development of the geothermal energy project from the SIDS DOCK technical assistance programme. The study covers technology, regulation, transmission and distribution capacity evaluation and technical and human capacity. Further but limited support is provided in the areas of technical support for harnessing of geothermal energy, environmental studies and environmental management plan development. Education and awareness programmes are being pursued via the European Union's Interreg 4B and 10th EDF programmes. Geothermal development is expected to be a mix of FDI and local (government and concessional) loans from the international donor and friendly institutions and from friendly governments' development assistance.</p>
F.2.1 Amount of Technological support	
F.2.2 Comments on Technological support	<p>The Geothermal Energy development project in Dominica requires much technical/technological support to assist in the early design of the project from plant and equipment to technology, environmental management, plant management and operation, generation and transmission. Estimated financial requirement is US\$25,000,000.</p>
F.3.1 Amount of capacity building support	
F.3.2 Type of required capacity building support	<p><input checked="" type="checkbox"/> Individual level <input checked="" type="checkbox"/> Institutional level <input checked="" type="checkbox"/> Systemic level</p>
F.3.3 Comments on Capacity Building support	<p><input type="checkbox"/> Other <input type="text"/></p>
F.4 Financial support for implementation required	<p><input type="checkbox"/></p>
F.5 Technological support for implementation required	<p><input type="checkbox"/></p>
F.6 Capacity Building support for implementation required	<p><input type="checkbox"/></p>

G Estimated emission reductions

G.1 Amount	
G.2 Unit	<p><input type="text" value="MtCO2e/yr"/></p>
G.3 Additional information (e.g. if available, information on the methodological approach followed)	<p>From Dominica's Greenhouse Gas Mitigation Assessment Report, it is assumed that if implemented a geothermal development of 20 MW the potential reduction of emissions is approximately 150,000 MtCO2e/yr. This amount may vary depending on the choice of technology, geothermal activity as well as the way the resource is developed. Also projections and discussions to generate more than 100 MW are stated within the GHG Mitigation Assessment Report; that the potential once developed of 700,000 MtCO2e/yr. Calculation based on an EF of 0.9 and with a plant load factor of 90%. This value is +/- 10% margin of error assuming the facts expressed. It is expected that Dominica will be transformed into the renewable energy hub.</p>

serving and servicing considerable regional reduction by EU (Gadeloupe and Martinique) with which a PPA have been energy cost hub for region and serving as the magnet for IT, banking, agro-processing, high energy industries.

H Other indicators

H.1 Other indicators of implementation

(Please see attached The Low Carbon Climate Resilient Development Strategy and Dominica GHG Mitigation Assessment Report)

I Other relevant information

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

(Please see attached Low Carbon Climate Resilient Development and Strategic Program on Climate Resilience and Dominica GHG Mitigation Assessment Report)

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

J.1 Relevant National Policies

(please see attached: Geothermal Resources Development Bill Planning on Adapation to Climate Change)

J.2 Link to other NAMAs

K Attachments

K Attachments

Title	Description
dominica_low_carbon_climate_resilient_strategy__(finale)[1].pdf	dominica_low_carbon_climate_resilient_strategy__(finale)[1].pdf
dominica_mitigation_assessment_final_report[1][1].pdf	dominica_mitigation_assessment_final_report[1][1].pdf
geothermal-resources-development-bill-current-jan-30-2013[1].pdf	geothermal-resources-development-bill-current-jan-30-2013

K.1 Attachment description

K.2 File

L Support received

L.1 Outside the Registry

L.2 Within the Registry

Support provided	SupportType	Amount	Comment	Date
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