### NAMA Seeking Support for Implementation

<table>
<thead>
<tr>
<th>A.1 Party</th>
<th>Commonwealth of Dominica</th>
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<tbody>
<tr>
<td>A.2 Title of Mitigation Action</td>
<td>Low Carbon Climate Resilient Development Strategy</td>
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<tr>
<td>A.3 Description of mitigation action</td>
<td>Implementation of the Low Carbon Climate Resilient Development Strategy</td>
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The rapid increase in knowledge-based environmentally sustainable economic activity and the increasing pace of improvements in 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 integrating green principles into national economic management and planning, and marring environmental preservation and management into the 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 principal objectives of:

- accessing appropriate low carbon and climate resilient technologies to support Dominica’s continued transformation to the 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 green 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 afforded the skilled labour force working in Dominica’s Green Economy as neighbouring Caribbean countries begin to explore their own low-carbon climate resilient development options.

<table>
<thead>
<tr>
<th>A.4 Sector</th>
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<tbody>
<tr>
<td>☑ Energy supply</td>
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<td>☑ Residential and Commercial buildings</td>
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<tr>
<td>☑ Agriculture</td>
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<td>☑ Waste management</td>
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<tr>
<td>☑ Transport and its Infrastructure</td>
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<tr>
<td>☑ Industry</td>
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<td>☑ Forestry</td>
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</table>
A.5 Technology
- Bioenergy
- Energy Efficiency
- Hydropower
- Wind energy
- Carbon Capture and Storage

A.6 Type of action
- National/ Sectoral goal
- Strategy
- National/Sectoral policy or program
- Project: Investment in machinery
- Project: Investment in infrastructure
- Other: Technical Assistance

B. National Implementing Entity
B.1 Name
Ministry of Environment, Natural Resources, Physical Planning and Fisheries

B.2.1 Contact Person
Samuel Carrette, Permanent Secretary
B.2.2 Address
Ministry of Environment, Natural Resources, Physical Planning and Fisheries
B.2.3 Phone
767 266 3282
B.2.4 Email
psagriculture@dominica.gov.dm

B.3.1 Contact Person
Lloyd Pascal, Director/ UNFCCC/ GEF Focal Point
(Alternative Contact Person 1)
B.3.2 Address
Environmental Coordinating Unit
B.3.3 Phone
767 266 5256
B.3.4 Email
ecu@dominica.gov.dm

B.4.1 Contact Person
Collin Guiste, PPCR-DVRP Climate Change Coordinator
(Alternative Contact Person 2)
B.4.2 Address
Environmental Coordinating Unit
B.4.3 Phone
767 266 5256
B.4.4 Email
collincg@gmail.com

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.1 Used Currency
(US$ Billion)

E. Cost
E.1 Estimated full cost of implementation
1.00
E.2 Estimated incremental cost of implementation
0.50

F. Support required for the implementation of the mitigation action
F.1.1 Amount of financial support
0.50
F.1.2 Type of required financial support

- Loan (sovereign)
- Concessional loan
- Grant
- Guarantee
- FDI
- Loan (Private)
- Debt Swap
- Equity
- Carbon finance
- Others:<Pls enter Other text here>

F.1.3 Comments on Financial Support

Ongoing discussion with the AFD for development funding for enhancing the value of the resource and the potential equity of the Government of Dominica in any potential geothermal energy development project. This will also advance the progress of the development while providing a more marketable resource for commercial development. The Government of Dominica has engaged the World Bank to conduct a GAP analysis in respect to the development of the geothermal energy project, with support from the SIDS DOCK technical assistance programme. The focus is on technology, regulation, transmission and distribution capacity, resource evaluation and technical and human capacity. Further but limited support in the areas of technical support for harnessing of geothermal energy, environmental studies and environmental management plans, public education and awareness programmes are being pursued with the European Union’s Interreg 4B and 10th EDF programmes. Project development is expected to be a mix of FDI and local (government) equity and concessonary loans from the international donor and financial institutions and from friendly governments' development agencies.

F.2.1 Amount of Technological Support  0.00

F.2.2 Comments on Technological Support

The Geothermal Energy development project in Dominica will require much technical/technological support to assist in the early planning and design of the project from plant and equipment to technology, environmental management, plant management and operations, generation and transmission. Estimated financial requirement is US$25,000,000.

F.3.1 Amount of capacity building support  0.00  $ (Dollars)

F.3.2 Type of required capacity building support

- Institutional development
- Human capital
- Systemic (policies, legislative, regulatory, etc)
### F.3.3 Comments on Capacity Building Support

There is need for capacity building at all levels of geothermal resource development and in electricity generation, transmission, distribution and supply, and well as in the areas of policy, regulation, Geoscience specific to geothermal energy exploration and assessment, and in plant design, operations, and maintenance. Some limited assistance and training opportunities are available through the Government of Iceland. Funding requirement is estimated at US$500,000.

### G Estimated emission reductions

| G.1 Amount | t.00 |
| G.2 Unit   | MtCO2e/yr |

### G.3 Additional information (e.g. if available, information on the methodological approach followed):

From Dominica’s Greenhouse Gas Mitigation Assessment Report, it is assumed that if implement a geothermal development of 20 MW by 2020, the potential reduction of emissions is approximately 150,000 MtCO2e/yr. This amount may vary depending on the choice of technology among geotherma activity as well as the way the resource is developed.

There are also projections and discussions to generate more than 100 MW by 2020 as stated within the GHG Mitigation Assessment Report; that will give a potential once developed of 700,000 MtCO2e/yr. Calculation is based using an EF of 0.9 and with a plant load factor of 90%. This values are within a 10% +/- margin of error assuming the facts expressed.

It is expected that Dominica will be transformed into the renewable energy hub for the region, serving and servicing considerable regional reduction by EU Countries (Gaudeloupe and Martinique) with which a PPA have been established; low energy cost hub for region and serving as the magnet for IT, Data Storage, banking, agro-processing, high energy industries.

### H.1 Other indicators of implementation

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

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

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

### J Links to National Policies and other NAMAs

J.1 Relevant National Policies

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