

Environmental and Social Action Plan
Dominica Geothermal Risk Mitigation Project - P162149
February 7,2022

Action Item	Related Standard	Action Description	Documentation/ Indicator of Completion	Required Completion Date
1.	PS1	<p>Dominica Geothermal Development Company Ltd (DGDC) shall:</p> <p>(a) adopt and implement an overarching Environmental and Social Management System (ESMS) that is consistent with World Bank Performance Standards and environmental health and safety (EHS) Guidelines for managing the environmental and social performance of the development including the EPC contractor’s performance. The ESMS policy and objectives; roles and responsibilities; and project site management in accordance with good international industry practice covering aspects including: excavation/backfilling at site and transportation of construction material; concrete mixing, casting and construction at site; management of dust, noise, contaminated runoff, soil and water pollution, domestic waste and sewage; traffic management; equipment operation; construction waste management; equipment repairs; hazardous materials and wastes; labor influx, worker accommodation and activities of construction workers; medical checkup, vectors and disease management; occupational health and safety; local hiring and training; emergency response; monitoring and reporting; and compliance requirements for contractors;</p> <p>(b) Put in place an appropriate environmental, social, health and safety (ESHS) organization (including for EPC contractor), with clearly defined roles and responsibilities for management of EHS and social/labour aspects</p>	<p>(a) Overarching Environmental and Social Management System reviewed as acceptable by World Bank</p> <p>(b) DGDC environmental, social, health and safety (ESHS) organizational structure in place</p>	Prior to construction being undertaken

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2.	PS1	DGDC to prepare and submit to the Bank regular monitoring reports on the environmental, social, health and safety (ESHS) performance of the activities funded by the IDA and project grant.	Submission of monitoring reports	Quarterly throughout the Project's implementation submitted not later than 45 days after the end of each quarter in conjunction with the Project Reports, starting from the Effectiveness Date of the Project.
3.	PS1	DGDC to engage an independent E&S Monitoring Consultant to verify compliance with environmental, social, health and safety (ESHS) performance of the overall Project, including but not limited to the implementation of this Action Plan, implementation of E&S instruments, stakeholder engagement activities, and functioning of the grievance redress mechanism.	Submission of monitoring reports	Independent E&S Monitoring Consultant to be hired 90 days after Project Restructuring approved DGDC to submit the monitoring reports to the World Bank quarterly throughout Project implementation not later than 45 days after the end of each quarter.
4.	PS1	DGDC to promptly notify the World Bank of any incident or accident related to the Project which has, or is likely to have, a significant adverse effect on the environment, the affected communities, the public or workers, including, inter alia, cases of sexual exploitation and abuse (SEA), sexual harassment (SH), and accidents that result in death, serious or multiple injury. Provide sufficient detail regarding the incident or accident, indicating immediate measures taken or that are planned to be taken to address it, and any information provided by any contractor and supervising entity, as appropriate. Subsequently, as per the World Bank's request, prepare a report on the incident or accident and propose any measures to address it and prevent its recurrence.	Submission of report within 48 hours after learning of any fatality or other incident or accident	Notify the World Bank no later than 48 hours after learning of any fatality or other incident or accident. A subsequent report will be provided within a timeframe acceptable to the World Bank, as requested.

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5.	PS1	DGDC to require contractors to provide monthly monitoring reports to the PIU. The monitoring reporting shall include a section on environmental, social, health and safety (ESHS) of the construction sites. The supervisory firms shall also provide monthly monitoring reports to PIU which include a section on ESHS. Such monthly reports shall be submitted to the World Bank upon request.	Submission of reports	Monthly reports submitted to the PIU. Report submitted to the World Bank upon request.
6.	PS1	<p>DGDC to ensure that the Project is executed in accordance with the following requirements, and in a manner acceptable to the World Bank:</p> <p>a) implement the Environmental and Social Management Plan (ESMP) for the Project, consistent with the relevant PSs, and in a manner acceptable to the Bank. The ESMPs shall include, inter alia, the following plans: Biodiversity Management Plan (MP), Erosion and Settlement Control MP, Waste MP, Water MP, Air Emissions MP, Noise MP, Disaster Risk and Emergency MP, Well Blowout Prevention Plan, Emergency Response Plan, Security MP, Operational Health and Safety MP, Labor Conditions and Worker Selection Plan, Internal Grievances Mechanism, Community Health and Safety MP, External Grievance Mechanism, Contractor MP, Stakeholder Engagement Plan, COVID-19 Contingency Plan, Chance Find Plan, Transportation Management Plan, and Training Plan.</p> <p>b) Prepare, consult, adopt, and disclose, the environmental and social impact assessment (ESIA) and ESMP for the Transmission Line and Substations, in accordance with the Terms of Reference approved by the World Bank.</p>		<p>a)The ESMP shall be implemented throughout the entire duration of the Project.</p> <p>b)The ESIA and ESMPs shall be adopted upon WB's No objection and before launching the respective bidding processes.</p>
7.	PS1	a) DGDC to Establish, publicize, maintain, and operate an accessible grievance mechanism, to receive and facilitate resolution of concerns and grievances in relation to the Project, promptly and effectively, in a transparent manner that is culturally appropriate and readily accessible to all Project-affected parties, at no cost and without retribution, including concerns and grievances filed anonymously and those related to SEA/SH, in a manner consistent with PS's.	GRM records	a) Establish the grievance mechanism, prior implementation of project activities and thereafter maintain and operate the mechanism throughout Project

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		b) Report on project-level GRM implementation.	Inclusion of GRM implementation in Project reports	implementation b) Report on GRM as part of the quarterly progress reports
8.	PS2	a) DGDC to develop and implement Occupational, Health and Safety Plans (OHSPs), in accordance with relevant guidelines specified in the Project's ESMP. b) Incorporate the OHS measures into bidding documents and contracts for contractors and supervision firms. c) Ensure that the OHS measures specified are implemented during the construction stage and during operation and maintenance stage.	Development of the OHS Plan Incorporation of the OHS measures in bidding documents	a) OHS Plan developed prior to start of construction b) Prior to commencing the corresponding bidding process of each works and thereafter incorporate in the respective contracts. c) Throughout implementation and operation.
9.	OP 4.12	DGDC and appropriate government ministries to prepare a RAP implementation report	RAP Implementation report	RAP implementation report prior to the commencement of any works.
10.	PS6	DGDC shall develop a Morne Trois Pitons National Park (MTPNP) monitoring programme to be implemented for the five key species considered Threatened by IUCN: giant ditch frog, imperial parrot, red-necked parrot, forest thrush, and a species of tree frog (<i>Eleutherodactylus amplinympha</i>), at a frequency of every six months from pre-construction until the completion of one year of construction, and annually thereafter for a minimum of five years of operation. The MTPNP monitoring programme shall be agreed with input from the MTPNP managing authorities (National Parks Unit of	MTPNP Monitoring programme developed	Prior to construction commencing, and at the recommended monitoring frequency

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		the Division of Forestry, Wildlife and National Parks), and implemented prior to construction where appropriate.		