



FACT SHEET

Roseau Valley Geothermal Project

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OBJECTIVES

- Reduce and stabilize the cost of electricity
 - o Lower tariff (\$ per kWh)
 - o Eliminate fuel surcharge
- Enable the generation of 100% of electricity from renewable sources
- Improve resilience in the Electricity Sector
- Create New economic opportunities using geothermal energy

CURRENT SCOPE

- Construct a 10MW Binary Cycle Power Plant in Laudat
- Construct a 33kV/69kV Electricity Transmission Network
- Establish infrastructure for expansion

PROGRESS

- Environmental Impact Assessment (ESIA)
 - o Completed ESIA for Power Plant and Drilling
 - o Published draft ESIA for Transmission Network
- Confirmed geothermal reservoir – 3 successful test wells in the Roseau Valley
- Completed Drilling for Power Plant – 3 wells in Laudat
- Signed Agreements with Ormat Technologies for Power Plant Construction
- Signed Agreement with Kalpataru Projects International for Transmission Network Construction
- Commissioned 6 MW Battery Energy Storage System at Fond Colé
- Completed Construction of 10MW Power Plant
- Successfully added geothermal power to the electricity grid
- Substations and underground transmission cables under construction
 - o 11kV/33kV cable from Laudat to Fond Colé completed
 - o 33kV section of Fond Colé substation completed



WHAT'S NEXT

Powerplant

- Commission 10 MW geothermal power plant in Laudat

Transmission Network

- Complete construction and Commission 11 kV/33 kV/69 kV network (Laudat to Fond Colé)
 - o 11 kV underground (0.5 km)
 - o 33 kV underground (10.6 km)
 - o 69 kV overhead (8 km)
 - o 3 substations
- Secure funding for construction of 69 kV transmission line from Fond Colé to Sugar Loaf (46 km underground)

FAQ

Why geothermal energy?

- It is safe – closed loop system using a reservoir
- It is reliable/stable – available 24/7 regardless of the weather
- It is green – approx. zero emissions (binary cycle technology) and 100% renewable

How does a binary cycle geothermal power plant work?

Hot fluids are extracted from a geothermal reservoir (about 1.5 km deep) through a production well. The geothermal fluids pass through a heat exchanger in the power plant and heat an organic fluid which in turn drives the turbines and electricity generators. The geothermal fluid is returned to the reservoir through a reinjection well. No fluids are released into the environment.

What are the benefits of geothermal power for Dominica?

- Lower electricity cost for homes and businesses
- Improved environment and lower carbon emissions
- Expanded economic activities

Why do we need a transmission network?

The existing 11 kV network is not able to efficiently transmit the 10 MW generated by the geothermal power plant to the main load centres in Dominica.