



## Organisation of Eastern Caribbean States

# Geothermal Energy in the OECS



# The Organisation of Eastern Caribbean States(OECS)



- Established under the Treaty of Basseterre on 18th June 1981
- 11 Member States  
6 independent members  
5 non-independent members
- The Economic Union seeks to create a single financial and economic space
- Supports economic growth and expansion through the optimal utilisation of domestic and Economic-Union-wide resources.

# Energy Situation in the OECS

- High dependence on imported fossil fuels
- Strong potential for renewable energy and Energy Efficiency
- Comparatively high energy costs
- Electricity and transportation are main energy consumers
- Sustainable Energy Policy and Plans



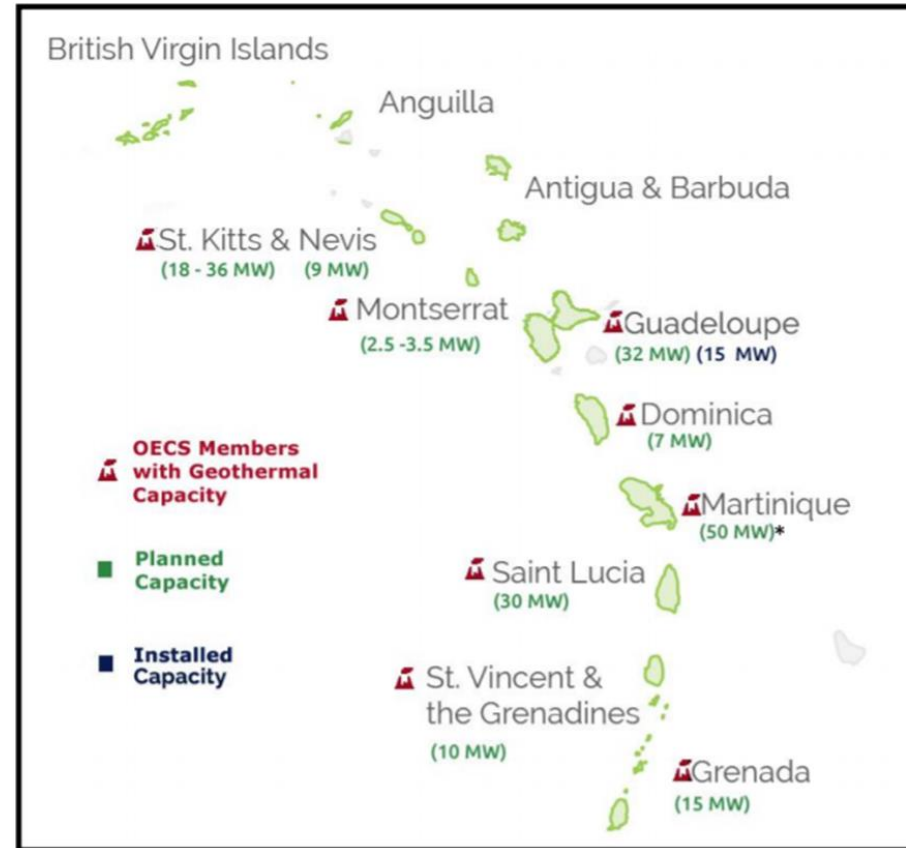
**Organisation of  
Eastern Caribbean States**



# Geothermal Development in the OECS

- Geothermal projects pursued in 8 Member States
- Long interrupted history of geothermal exploration
- One functioning plant-Guadeloupe
- Increased geothermal activity in recent years
- Potential to single handedly transform the energy landscape of the region.

# Planned Geothermal Projects



*Eastern Caribbean Countries with geothermal potential*

# Selected OECS Geothermal Projects



*Drilling Site – Dominica*



*Long term testing at MON-01 Site - Montserrat*



*Exploration well (N-4) drilled March 2018, Hamilton Nevis.*




*Bouillante Geothermal Power Plant in Guadeloupe (aerial picture, BRGM)*



Geothermal

Economic

Benefits

- Enhanced energy security
  - Stabilization of the cost of electricity
  - Reduced volatility of international oil prices
  - Reduced average tariff to customers
  - Reduced importation of fuel oil
  - Opportunity for trade of excess energy
  - Green jobs
  - Decarbonized economic development
  - Multiplier effect creating economic activity
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# OECS Geothermal Cooperation

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OECS Sustainable Energy Framework addresses:

- a) Existence of conducive policy and regulatory framework for supporting geothermal energy
- b) Increased and improved private sector participation in geothermal energy
- c) Enhanced institutional and technical capacity for geothermal within the OECS
- d) Increased technical and financial assistance for geothermal exploration and power development
- e) Improved sharing and coordination for geothermal energy in the OECS





# Geothermal Energy Vision for the OECS

- Adds a new dimension to cooperation and addressing emerging challenges and opportunities for regional integration.
- Provides the OECS with a solution to address its challenges of energy security and affordability in the region whilst improving competitiveness, economic growth and resilience.



# Derisking Geothermal Projects in the OECS



Financing Risks



Policy, Legal and Regulatory Risks



Resource Risks

Other Risks eg. Environmental and Social, Capacity Building, Public Education and Acceptance

Partnerships and Collaboration

# Selected Opportunities

- Direct Uses Development
- Regional Energy Interdependence
- GEOSMART
- Geothermal Hub, CCREEE
- Geothermal Development Mechanism, OECS
- Regional Centre of Excellence for Geothermal (Energy in the Caribbean Project)
- GEOBUILD Project

# THANK YOU

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