Geothermal Center of Excellence in Guadeloupe

Gender and geothermal development workshop

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Regional Council of Guadeloupe
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Geothermal in the Caribbean: huge potential, great expertise

Geothermal Energy Mapping

- Feasability study realized
  - Capacity: 18-36 MW

- 3 exploration drilling
  - Capacity: 9 MW

- 2 production drilling
  - Capacity: 2.5–3.5 MW

- Production of 15 MW and exploration in process in a new area. Capacity: 32 MW

- 3 exploration drilling (2012) and 2 production drilling (2014).
  - Capacity: 7 MW

- 2 exploration drilling and 7 temperature gradient assessment
  - Capacity: 30 MW

- Feasability study realized;
  - Capacity: 10 MW

- Feasability study in process
  - Capacity: 15 MW

Geothermal plant of Bouillante (15 MW in Guadeloupe)

Cooperation project INTERREG 3 & 4

From 2012 to 2015

- Provide early stages environmental preliminary studies
- Share expertise, good practices and experience in project management
- Develop Caribbean expertise
- Specify the critical mass required by projects in order to get attractive enough for investors: “think regionally rather than locally”

Cooperation project INTERREG 5

- Creation of a Geothermal Center of Excellence
The regional council adopted in October 2015 a motion to support the development of geothermal in Guadeloupe and in the Caribbean.

- Support the development of the geothermal plant of Bouillante;

- Support the development of geothermal in Guadeloupe and the Caribbean using European funds;

- Confirm its will to develop a Geothermal Center of Excellence consistent with its policies in terms of employment, development of REn, social integration and energy conservation.
Priority fields of intervention (from now to Dec. 2020):

1. **Demand side management in the building sector**: strategic issue in the region, great experience of Guadeloupe and Martinique in the development of local regulation technical specifications and solutions, adapted to a more climate resilient building sector,

2. **Clean energy and decentralized renewables in the transport sector**: best practices, loading infrastructures and grid integration, vehicle-to-grid services ...

3. **Geothermal**: follow up of INTERREG IV Geothermal in the Caribbean Phases 1 & 2 (Geothermal Center of Excellence: capacity building activities, early stages environmental preliminary studies, implementation and sharing of good practices, social impact assessment ...)

4. **Market promotion and communication**: identify investment opportunities through the project and make them known to investors ...
GCE in the activities of the INTERREG 5 project

**Project leader**
**WP 1 : Coordination Guadeloupe**

**WP 2 : Energy performance in buildings**
- **Task 1** Feedback on local Energy Efficiency Building Code
- **Task 2** : Energy Efficiency Building code
- **Task 3** : Tech. solutions / energy performance targets  
  Task leader : CSTB

**WP 3 : Clean energy in transports**
- **Task 1** : Plug-in infrastructures
- **Task 2** : Vehicle to grid
- **Task 3** : Alternative vehicle technologies
- **Task 4** : Energy roadmaps

**WP 4 : Geothermal**
- **Task 1** : Center of excellence
- **Task 2** : Training program
- **Task 3** : Environmental best practices
- **Task 4** : Innovative surface exploration techniques

**WP 5 : Communication & market promotion**
Ecosystem of geothermal seen from Guadeloupe

Geothermal Center of Excellence

- **CCREEE* (CARICOM)**
- **Geothermal plant of Bouillante**
- **BRGM**
- **French west indies University**
- **National Institute of ET**
- **Géodénergie GIS**
- **INTERREG « TEC »**
- **Regional council**
- **Guadeloupe Formation**
- **OECO**
- **Intl. Developers**
- **SAS Géothermie de Gp**
- **SAS TERANOV**
- **INTERREG « Interconnection »**
- **Cluster GEODEEP**
- **ADEME**
- **SAS GIS**
- **CT St-Martin**

*CCREEE : Caribbean Centre for Renewable Energy and Energy Efficiency*
Missions of the GCE

INTERREG IV Geothermal in the Caribbean project

Feasibility study for a Geothermal Center of Excellence

Support Research & Development for industrial geothermal projects in the Eastern Caribbean.

Support international cooperation in the Eastern Caribbean States where geothermal energy is being developed.

Develop legal, technical and financial skills for geothermal project set up.

Conduct a communication and information mission to maximize the acceptance of geothermal energy by people from the Caribbean.

Train Caribbean young engineers and technicians.

Provide professional training for development and exploitation occupations connecting with geothermal project.
Next steps

Negociations

Formalities

Drafting of GCE roadmap

Mar | Avr | Mai | Juin | Juil | Août | Sept

Validations | Kick off of the GCE | Recruitments
Thank you for your attention.

Merci de votre attention.

Focal points:

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