





## THE REGIONAL COUNCIL OF MARTINIQUE, PUSHING FOR PRO-ACTIVE ENERGY POLICIES AND ENERGY TRANSITION

**Greater autonomy in energy production, reducing air pollution and developing renewable energy sources : the Regional Council of Martinique's ambition is to ensure that clean energy sources account for 50 % of total energy production by 2020.**

Island Energy and Climate Masterplan : a strategic project on Renewable energies and energy efficiency being among the most effective ways to initiate sustainable development and a local economic model for creating wealth and employment, Martinique's Regional Council agreed with the French government on an "Island Energy and Climate Masterplan". Two implementation tools were thus created :

- The Martinique Energy Agency and which has responsibility for training, research and project support
- A public private company to participate in investments in large-scale projects and creating employment for existing enterprises.

Now that renewable electrical production is an objective, and even a reality shared by our territories, it is time for us to broaden our reflection "how do we organize ourselves in order to make global energy transition in the Caribbean, a lever for the socio-economic development of our populations ?" Hence the reason why the Regional Council of Martinique

is organizing **the Energy Transition Conference of the Caribbean on October 22nd and 23rd, 2013 in Martinique.**

These two days will focus on exchanges around public policies for the development of renewable energies, on the use of public financing (in particular European Union financial instruments) and on governance. It will also be an opportunity to showcase some of our achievements and projects : positive energy houses, photovoltaic power plants, waste to energy incinerator, biomass-energy power plant, geothermal energy and OTEC.

### **The Regional Council improving citizens' daily lives**

Created in 1982, the Regional Council of Martinique is a French government authority at local level that consists of an elected deliberative assembly and two advisory boards (the Economic and Social Council and the Council of Culture, Education and Environment).

Since 2010, the elected President is Mr. Serge Letchimy. This administration is organized into Departments linked to thematic Commissions, including "Sustainable Development of Transportation & Energy" and "Cooperation and European Affairs".

**SERGE LETCHIMY**

President of The Regional Council of Martinique

# GADELOUPE, A LAND OF EXCELLENCE IN ENERGY MANAGEMENT : STRATEGY, LOCAL KNOW-HOW, AND PRACTICAL ACHIEVEMENTS



**The future of energy is of particular importance for island territories. Guadeloupe is one of the forerunners in the development of renewable energies and energy efficiency.**

The Regional Council of Guadeloupe has developed a territorial strategy aimed at using 50% of renewable energy by 2020 and has adopted specific legislation in the field. Besides being environmentally friendly, the energy sector offers tremendous opportunities to generate high added value, provide skilled jobs and promote a positive image of the territory.

The Region Guadeloupe's institutional environment provides attractive conditions for investment and the establishment of companies. Business initiatives receive active support from the Regional Council and its partners.

The Synergile cluster gathers private companies, research laboratories, training centres, and socio-professional organisations taking action in the fields of renewable energy and building materials. Synergile is a strong driver for the local energy sector.

Initial and vocational training are addressed through different levels. Antilles-Guyane University recently opened an engineering degree in energy systems.

**Energy demand management and development of renewable energies : the pillars of a policy aimed at energy self-sufficiency thanks to the expertise of local businesses**

The energy plan of Guadeloupe anticipates almost zero consumption growth between 2011 and 2020.

The building and construction sector is considered a priority. The Thermal Regulation of Guadeloupe (RTG) has been developed for new buildings along with the Guadeloupean Energy Performance Diagnosis (DPEG).

Today, 15% of Guadeloupe's electricity comes from renewable energies: geothermal (15MW), biomass (biogas and bagasse), hydro (9MW), wind power (27MW), and photovoltaic (65MW). Many projects are under way such as the extension of the Bouillante geothermal plant, the development of a variety of fibrous sugar cane for the biomass industry, the deployment of electric vehicle fleets recharged by solar panels, the implementation of "smart grids" facilitating the introduction of intermittent supply on the network, the Sea Water Air Conditioning pilot project, and the sea water pumping station project.

**Eager to capitalize on acquired expertise, the Regional Council of Guadeloupe is committed to an open and experience-sharing approach with its Caribbean neighbours and other island territories, e.g. for geothermal energy. The experience gained by Guadeloupe's companies may contribute to the energy transition and economic development of the Caribbean.**

**JOSETTE BOREL-LINCERTIN**

President of the Regional Council of Guadeloupe

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**akuoenergy**

Entrepreneurs by nature

**Akuo Energy** is a private group which specializes in the development of industrial power production plants from renewable resources such as wind, sun, water, biogas, biomass and marine energies. The company is involved in all stages of the life cycle of power plants : studies, design, financing, construction and operation.

**Akuo Energy** is a French company of international standing, established in many locations worldwide.

Currently, **Akuo Energy** has offices and major projects in France, several French overseas territories, Uruguay, Dominican Republic, Poland, Croatia, Bulgaria, Turkey, and the United States, with a flexible approach that enables the company to adapt to all local energy schemes.

Fully independent from power supply equipment manufacturers, **Akuo Energy** is able to select the best technological solutions depending on the resources available and specific local requirements of each particular project.

**Akuo Energy** currently employs 140 collaborators worldwide; we rely on highly skilled, reactive and adaptable teams.

Clean and never-ending, renewable energy is the best way to meet our current and future energy needs while avoiding greenhouse gas emissions and avoiding peak pricing of fossil fuels associated with their on-going depletion.

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# enertime

**Enertime** offers solutions for green power production using heat sources at low or medium temperature. Enertime offers MW-size turn-key solutions for various applications including :

- energy efficiency, with waste heat recovery on industrial processes and diesel power plants.
- binary plants for geothermal energy.
- renewable and distributed energy (e.g. biomass based).

**Enertime** is a French small-scale independent company, founded in 2008, which designs, manufactures and implements power generation solutions based on the Organic Rankine Cycle (ORC) technology.

The French start-up has expert knowledge in turbine design and develops its own turbines and ORC modules. **Enertime** can thus also offer turbines developed for specific projects on clients request.

**Enertime** provides as well consulting and engineering services to its clients leveraging on its expertise in new technologies applied to renewable energies.

**Enertime** is headquartered in Puteaux, France, next to "La Défense" business district.

**Enertime** also has commercial and after-sales services offices in the Philippines, La Réunion Island and very soon in French Guadeloupe in the Caribbean.

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# escot caraïbe

Energies Renouvelables

**Escot Caraïbe** is a French west indies subsidiary of the French ENE group, specialized in renewable energy.

### **Our expertise :**

We are the first company in Martinique offering technical studies and providing products you need to.

We offer many solutions for sustainable development and since 2009, **Escot Caraïbe** is recognized player in the renewable energies market.

### **Our solutions :**

We offer products in different areas :

- LED Lighting : Street & architectural lighting, indoor & outdoor or solar lighting. European standards compliant, US illumination's requirements compatible (IES).
- Recovery of clean water or waste water : modular watertanks from 1 to thousand of sqm, filtering.
- Electrical autonomy : wind generator and photovoltaic systems for off grid or on grid solution.
- Sealing & Insulation : a coating with properties of thermal control, waterproofing and protection.

### **Our values :**

We focus on the quality and use usually our own products and in other case French and Caribbean products, taking care to add to our knowledge and our skills.

Our team is listening to customers needs. It ensures to provide solutions tailored to their specific requirements.

Our main goal is the expansion of renewable energies in the Caribbean

**Escot Caraïbe** assists the Caribbean population and is the spokesman for sustainable development.

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### **Gamma Ingénierie, Your key partner**

Are you :

- An architect ?
- A local authority ?
- A social landlord ?
- A company ?
- A public or private contracting authority ?

Are you looking for a partner consultancy firm to carry out the renewable energies aspects of your building projects ?

Are you willing to integrate an environmental quality approach ?

### **Expertise of our consultancy firm**

- Energy auditing
- Dynamic thermal modelling
- Project management and assistance to the contracting authority in order to : maximize the bioclimatic performance of the building - develop efficient and adequate systems
- Environmental project management
- Technical and economic feasibility study
- Renewable energy related project development.

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**Genergies** is a leading Caribbean company specialized in development of turnkey projects for renewable energy production and energy saving.

**Genergies** develops a large panel of solution for both residential and commercial applications :

- Solar water heater for residential (thermosiphon) - Solar water heater systems for commercial application (Hotel, condominiums, building) - Photovoltaic generators for on-grid production - Photovoltaic generators with batteries for off-grid remote production - Hybrid generators (photovoltaic + wind + diesel + batteries) for remote production - Energy storage for Uninterruptible Power Supply and back up systems - Stand alone.

**Our team is focus on customer satisfaction based on :**

- accurate definition and specification of the solution to fit with our customer's expectations
- selection of high quality products with relevant guaranty
- maintenance & after sale service to operate the solution in a long term perspective.

**Facilities**

Guadeloupe : Headquarter + warehouse  
Martinique : Office + warehouse  
French Guyana : Office + warehouse

**Experience**

More than 15.000 solar water heater systems installed and still being operated

More than 5 Mwc of photovoltaic plants installed and still being operated

More than 3 MW of UPS systems installed and still being operated

**Objectives**

Meet customers and partners in the Caribbean to explore new project opportunities within our core business :  
Hotels - Utilities - Real estate - Renewable asset investors.

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# Teranov

## Geothermal Energy

**Teranov** provides project management, engineering and studies for high temperature geothermal energy over the Latin American and Caribbean Region: prefeasibility studies, geological investigations, geochemical and geophysical interpretation and resources evaluation, geostatistics, characterization and reservoir engineering, drilling engineering and supervision, and wells services during exploration and production phases.

**Teranov's** expertise covers the full spectrum of requirements for the successful development of the deep and high enthalpy geothermal subsurface resources. Our wide-ranging and interdisciplinary approach aims to come up with solutions and deliver valuable results at any phase of the project.

From resource exploration and assessment through reservoir modeling and project design, development and management, our experts and partners have years of experience as analysts and practitioners, helping our clients to reach their goals quickly and cost-effectively.

**Teranov** delivers high level full services to its clients, including :

- Country-wide exploration and development planning : geology, mapping, geochemistry & geophysics, socio-environmental impact assessment.
- Resource Assessment and Numerical Reservoir Simulation including state-of-the-art fractured reservoir engineering.
- Drilling Engineering and Management, Well Testing.
- Assessing project for filing in one of the regional Drilling Risk funds.

All these activities are managed within the highest QHSE requirements and take into account the highest socio-environmental standards.

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