



RESOR
Interreg Europe



European Union
European Regional
Development Fund

The Territorial Authority of Martinique

Rubens FANNIS

RESOR Kick-off meeting

11th July 2018

Las Palmas de Gran Canaria

Martinique, a few figures



- 1,128 km² ~ 30x60km
- 377,000 inhabitants (-0.6 %/year)
- 334 inhab/km² (French average : 119)
- Population concentrated along the coastline
- GDP per capita: 23 200 € (32 300 € for France)
- Growth : 0.4 %
- Unemployment: 17.6 %
- Half of the territory is free from human settlement due to strong natural constraints (mountainous areas, including Mount Pelée in the North, which reaches 1,397 m).
- Martinique is very vulnerable to natural hazards: torrential floods, earthquakes, landslides, marine submersions, cyclones.



Fighting climate change



Collectivité
Territoriale
de **Martinique**

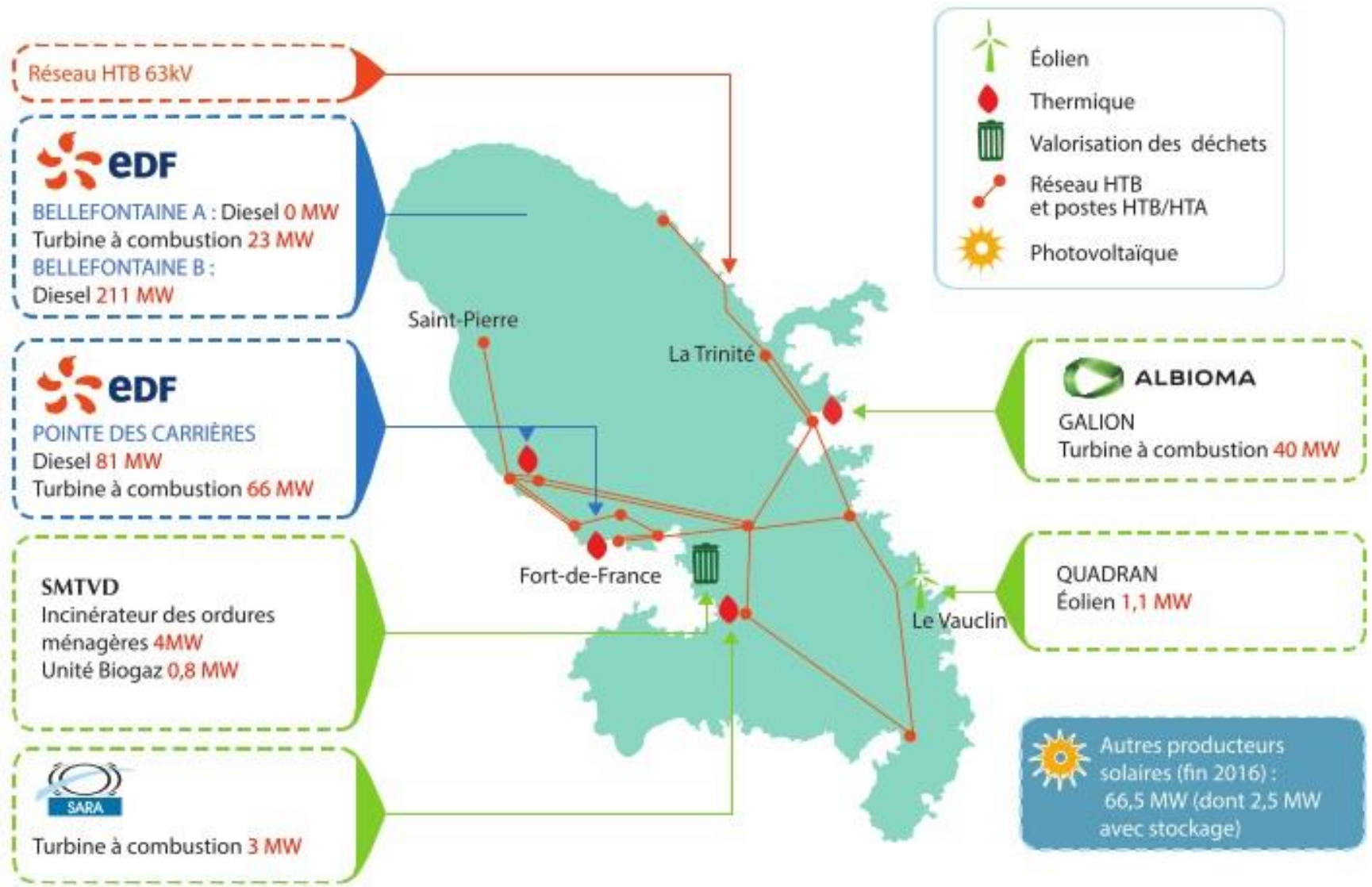
Energy

Strategic Orientations for the Territory:

- Reduction of the dependence on fossil fuel energy and of the energy bill
(importation of 850,000 tons of oil/year (53 % our exports))
- Energy efficiency
- Reduction of greenhouse gases
(Total émissions of CO₂ from the combustion of oil products in 2015 in Martinique: 2,169,000 tons).
- Control of our energy consumption
- Development of renewable energies



THE ENERGY SYSTEM



Source : EDF

ELECTRICITY PRODUCTION

A SUMMARY for 2016 ...

Production électrique livrée par type d'énergie en 2016



The total of electricity production is mostly achieved through primary energies of fossil origin (93%)

The portion of renewable energy remains low compared to the level of production achieved with fossil origin (7%).

Energy Transition

... Through a regulatory framework which is adapted to the territory: **PPE**

Multiannual Energy Programming (PPE) is a specific tool to monitor the energy policy of the territory; it was created by the law on Energy Transition for Green Growth which analyzes and sets up the main directions for our energy transition, based on sustainable and concerted elements.

Objectives for 2023 compared to 2015:

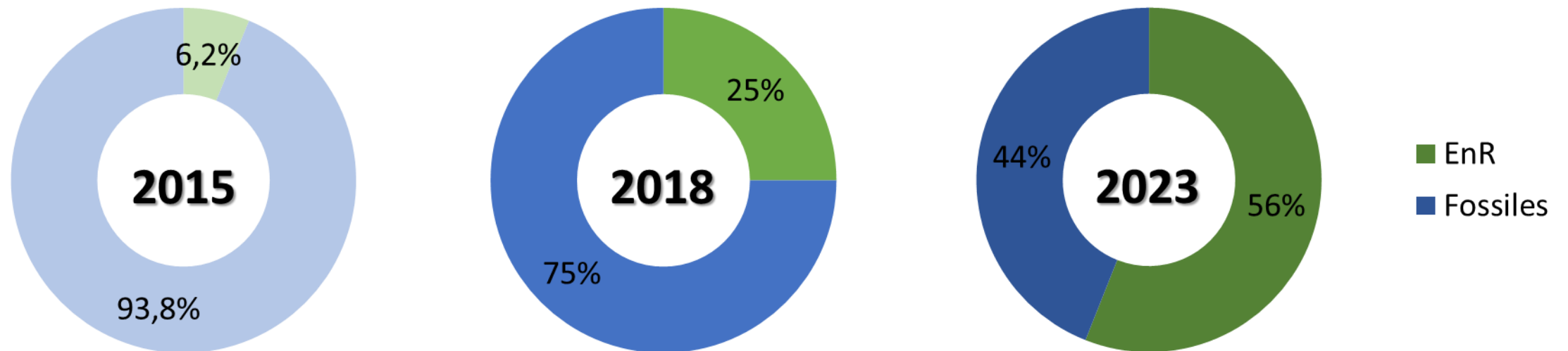
- 56% of electricity produced from Renewable Energy
- 19% reduction of oil consumption for land transportation
- Between 45 and 50 GWh/year of energy savings

Development Objectives for Renewable Energies

... Through the Multiannual programming tool (PPE)

Renewable Energies as a major contributor to the energy mix in Martinique in 2023

Evolution du mix énergétique



Development Objectives for Renewable Energies

Filière	2015 MW	PPE 2015 – 2018 MW		PPE 2019 – 2023 MW	
		Nouveau parc	Total	Nouveau parc	Total
Éolien sans stockage	1,1	0	1,1	-1,1	0
Éolien avec stockage	0	12	12	12	24
Photovoltaïque	63	+2	65	+46	111
Photovoltaïque avec stockage	2,5	+14,5	17	+30	47
Géothermie	0	0	0	50	50
Hydroélectricité	0,02	0	0,02	2,5	2,5
Biogaz	0,8	0,6	1,4	0,6	2
Bioéthanol	0	0	0	10	10
Valorisation thermique des déchets	6,6	0	6,6	10,2	16,8
Pile à combustible	0	1	1	0	1

With **3 main types of energy** by 2023:

- Wind power (with storage): +24 MW
- Photovoltaic (with storage): + 92,5 MW
- Geothermal energy (in Martinique and Dominica) : + 40 MW

ERDF Operational Programme

Axe Prioritaire 4 : « REPONSE A L'URGENCE ENERGETIQUE ».

Objectif thématique : TRANSITION ENERGETIQUE

MESURES	FONDS	Montant UE maqueté	Taux d'intervention
4.1. Augmenter la part des énergies renouvelables dans le mix énergétique (Priorité 4a) : Prod & distribution EnR	FEDER	35 000 000 €	52%
4.1.1. Investissement dans les systèmes de production	FEDER		
4.1.2. Programme d'équipement domestique d'eau chaude solaire	FEDER		
4.2. diminuer le poids de la facture énergétique pour les ménages défavorisés et les bâtiments publics (Priorité 4c) : Eff Energétique dans le bâti	FEDER	6 500 000 €	52%
4.2.1. Rénovation dans le logement social et le bâti privé dégradé	FEDER		
4.2.2. Rénovation dans le bâti public	FEDER		
TOTAL Axe 4		41 500 000 €	52%

examples of projects

Territorial Programme For Energy Control (PTME)

Essential Partnership Tool which allows to concretize the energy transition

2016-2020 : 50 Million Euros.

Funds are mobilised for 3 action programmes:

- **Control of Energy Demand and Energy Efficiency**
- **The Development of Renewable Energies**
- **Territorial Sustainable Development projects**



Territorial Programme for Energy Control (PTME)

... 50 million Euros for project support

Set objectives by 2020:

- 60% more of solar water heaters
- 30% of electricity savings for the territory
- 20% of energy savings in buildings

Main actions by 2020:

- Territorial Call for project proposals
- Energy Renovation for buildings
- Development of self-consumption photovoltaic equipments



Electric Mobility

- Objective set for the deployment of 240 electric charging stations fed by photovoltaic panels on the territory by 2023
- A Plan for the Deployment of Electric Vehicles in 2018
- Parallel development of initiatives based on virtuous solutions for the electric system thanks to charging stations fed by photovoltaic panels.

Project Example:

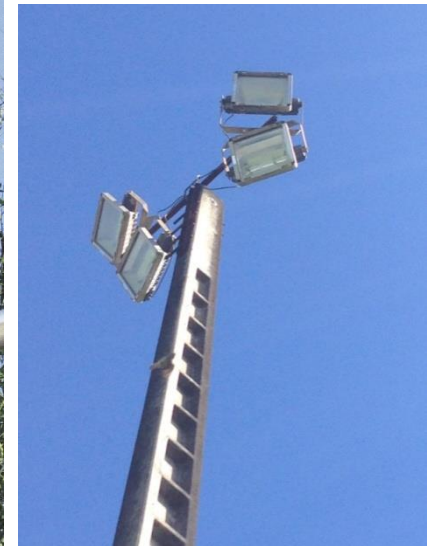
AAP Autoconso → Chargins stations fed by PV
on about twenty sites



Efficient Public Lighting

Public lighting Renovation

- At least 60% of the electricity consumption of public Authorities is linked to public lighting
- Advanced state of dilapidation for the equipment installed
- Renovate the entire public lighting network in Martinique + sports facilities
- Modern equipment and innovative technologies (Smart lighting)
 - Variation in brightness
 - Smart meter



Objective : At least 30% of electricity saving on the territory by 2020

Solar Water heater

- + than 4,000 solar water heaters installed each year
- To substitute the electric water heater by a solar equipment
- Reduce the energy and environmental footprint of homes
- Mobilisation of European Funds to structure & support the local sector
- Encourage job creation

The solidarity model of solar water heater, accessible to all.

Partners join forces to make solar water heaters accessible to low-income families.

The objective is double: it consists in implementing a policy for energy savings while fighting against energy insecurity in Martinique.

... A free solar water heater, 100% funded.

Objective_:
60% of homes are equipped by 2020



V. A first report



Collectivité
Territoriale
de **Martinique**

Energy Transition

... Initial positive results

165 projects

Relating to the Energy Transition in Martinique,
Technically and financially supported by the territorial
programme for energy control,
for a total of about **10 Million Euros**

Individual Water heating systems

- Purchasing and installing
more than **9,000**
subsidised equipments

Two additional levers of action:

- Develop and strengthen the level of quality of the equipment
- Change the behaviour and consumption habits

27 millions kWh saved in 2016

32 Million kWh saved in 2017



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Thank you!

Questions welcome