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European Union
European Regional
Development Fund

Regional Council of La Réunion
SPL Energie Réunion

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RESOR Kick-off meeting

11th July 2018

Las Palmas de Gran Canaria

Regional Council and Energy Agency : A team for a project

Regional Council of La Réunion : in charge of

Master plan for the Development Process

Economic strategy

Tourism Strategy

Cultural

Energy Strategy

“SPL Energy Reunion”, THE Energy Agency of Reunion Island

In charge of

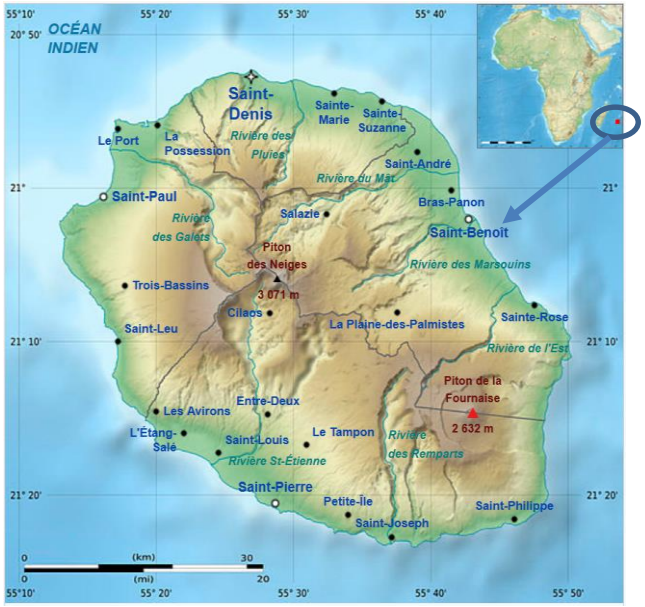
Making studies and R&D about Energy Transition

Helping public and private actors to implement Energy transition

Helping ALL populations to joign Energy Transition

OUR PROJECT ! MAKE REUNION, A SOLUTION PROVIDER FOR ISLANDS FACING THE ENERGY TRANSITION CHALLENGE

A project for an Island : La Reunion



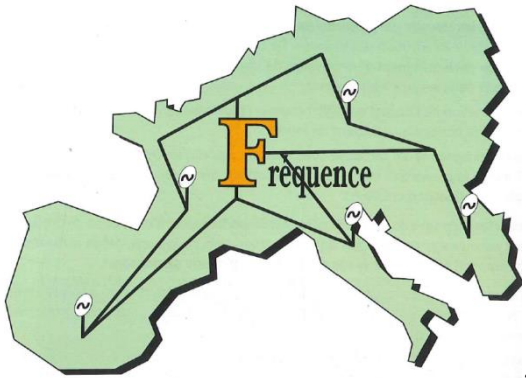
Reunion Island : some stylized facts
- A french Region, oversea s territory
- Population : 840 000
- Surface : 2 512 sq
- GDP (2012) : 16 Milliards d'€

- Reunion is a non interconnected territory

(its electric network is 1000 smallest than the European Electric system)

Vulcano
Sub –Tropical Climate
Multi culturalism
Unesco heritage

More than 50% of the territory is protected



An Island facing the challenges of dependency and vulnerability

The metabolism of Reunion is sustained by imported flows Energy

Matter

Money

Which support the growth of its population and economy…

… and worsens our dependence regarding to these flows

Beyond 2020 : New challenges, New opportunities !

WE HAVE TO CHANGE

To project our lands in the middle of this century

To face the new challenges and climate change issues

To turn constraints into opportunities :

BUT HOW ?

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A solution : changing representations

The current crisis stems from the transposition of **the Fordist model**, a standard unsuitable for a small island :

- **Dependent economies of scale**, it turns our physical characteristics into handicaps
- **Based on fossil energies**, it ignores the ecological inscription and impact of economic activities
- **Focused on GDP,** it ignores the high social value activities

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A solution : Pursuing a Master Transformation Plan

How to change the mindset ?

- Pursuing A **« Master Transformation Plan »** to built a resilient territory
  - Reducing its dependency and vulnerability through innovation
  - Aiming to **prioritize and to concentrate** the scare resources on a **selected number of sectors i-e Strategic Business**
  - **A master key for the future : to achieve the Energy Transition !**

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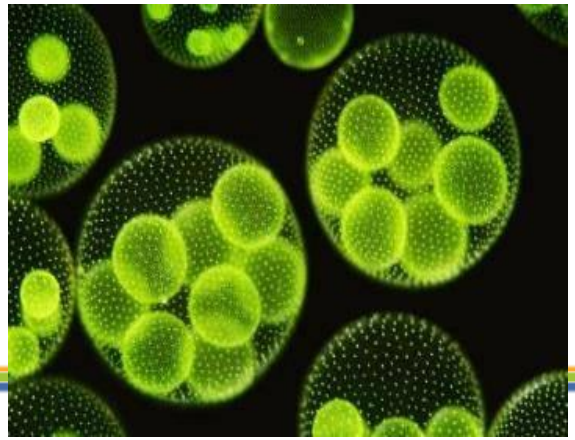
The Energy Transition

Investing in :

→ Tropical constructions and global efficiency
→ Renewable Energy
→ Smart Grids and storages
→ Circular Economy
→ Transports and EV

✓**To achieve two main goals :** Electricity transition (2030) and Energy Transition (2050 / Transport)



THE ENERGY TRANSITION: THE REUNION ISLAND CASE

Energy Consumpion/Production in 2016 in La Réunion

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Final energy consumption in 2016:
1000,5 ktep

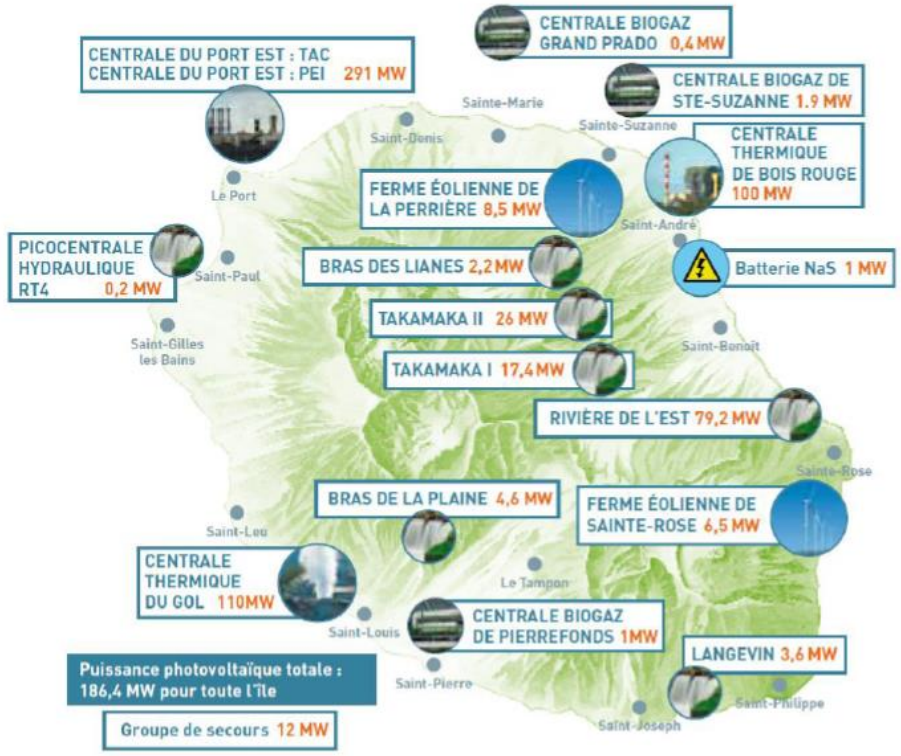
TRANSPORT 62,5%
(625,5 ktep)

FOSSIL

ELECTRICITY 23,2%
(232,9 ktep)

RENEWABLES AND FOSSIL

Electricity production in 2016



Sources : EDF / Albioma BR / Albioma Gol – Auteur : oer

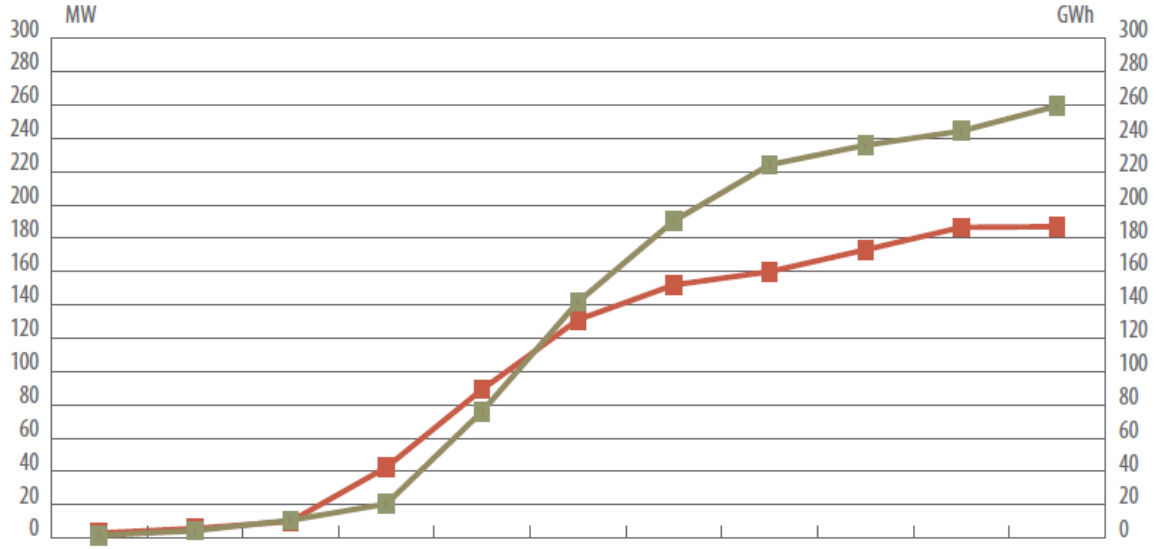
Source	Power– MW	Production – GWh
Fioul Gazole	291	799,8
Coal / Bagasse	210	1382,4
Hydro	133,2	464,5
Wind	16,5	18,5
Biogaz	4,4	17,1
PV	186,4	259,5
Battery NaS	1	1,8
Total	**842,5**	**2943,6**

34% Energies renouvelables

Electricity: state of the art in the territory

- PV development

Evolution des puissances et de la production électrique à partir du photovoltaïque :



	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
PUISSANCE RACCORDÉE CUMULÉE (MW)	3,0	5,8	10,0	42,5	89,3	131,1	152,0	160,2	173,1	186,6	187
PRODUCTION ÉLECTRIQUE (GWH)	1,6	4,4	10,7	20,5	76,1	141,8	190,4	224,2	235,9	244,4	259,5

Source EDF – Auteur : oer

- PV check : financial support from regional council to the inhabitant : 2000€->6000€ (if storage) from 3 to 9 kWc -> more than 1200 power plant

Electricity: state of the art in the territory : a transition FOR ALL

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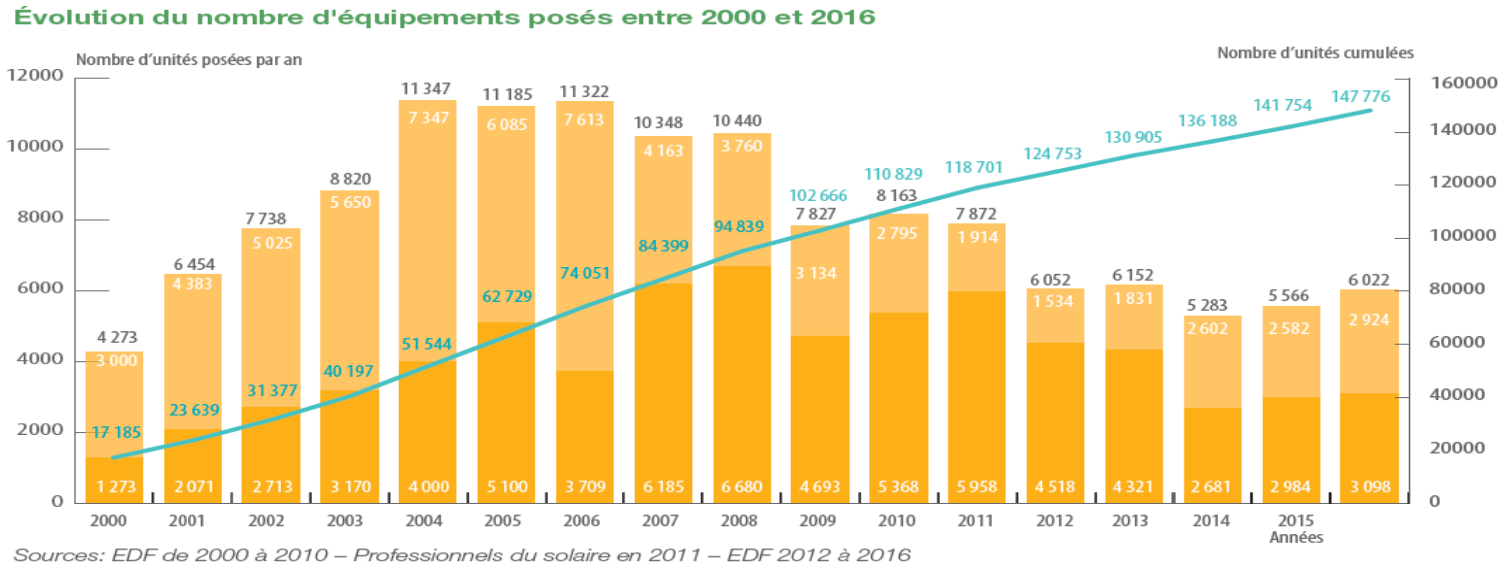
- Solar water heater development



Sources: EDF de 2000 à 2010 – Professionnels du solaire en 2011 – EDF 2012 à 2016

- SLIME : Local scheme for energy efficiency : 15 000 households at the end of 2018
- ECOSOLIDAIRE: financial support (95%) from Regional council and EDF to the households in situations of energy insecurity : around 3000 SWH

Energy efficiency and renewables: relevant policies and initiatives

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Pursuing a pluriannual energy plan

- Plan co-elaborate between : French government and Regional Council of La Réunion
- Target : 50% Renewable by 2020 and 100% Renewable by 2030
- 1st period : 2016/2023
- 2nd period : 2019/2028 (WIP)

Energy efficiency and renewables: relevant policies and initiatives

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- Security of supply and safety of the energy system
- Improving energy efficiency and lowering consumption
  - Electricity :
    - 2023 : **-360GWh** / 2015
  - Transport
    - 2023 :
      - **+11% increasing the modal share** of public transport
      - **-10% of fossil fuel consumption**
      - **2000 Electrical Vehicles**
      - **225 public charging** point with renewable
- The development of renewable energies and recovery
  - 2023 : **+ 231 MW**
- The development of networks, energy storage and transformation, and demand management
- The preservation of the competitiveness of energy prices
- The assessment of skills needs and the adaptation of training to these needs

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Thank you!

Questions welcome