



Restitution

www.univ-corse.fr

Symposium RETI

Réseau d'Excellence des Territoires Insulaires

9 -10 juillet 2010, Corte, Corsica

Workshop

Renewable Energies

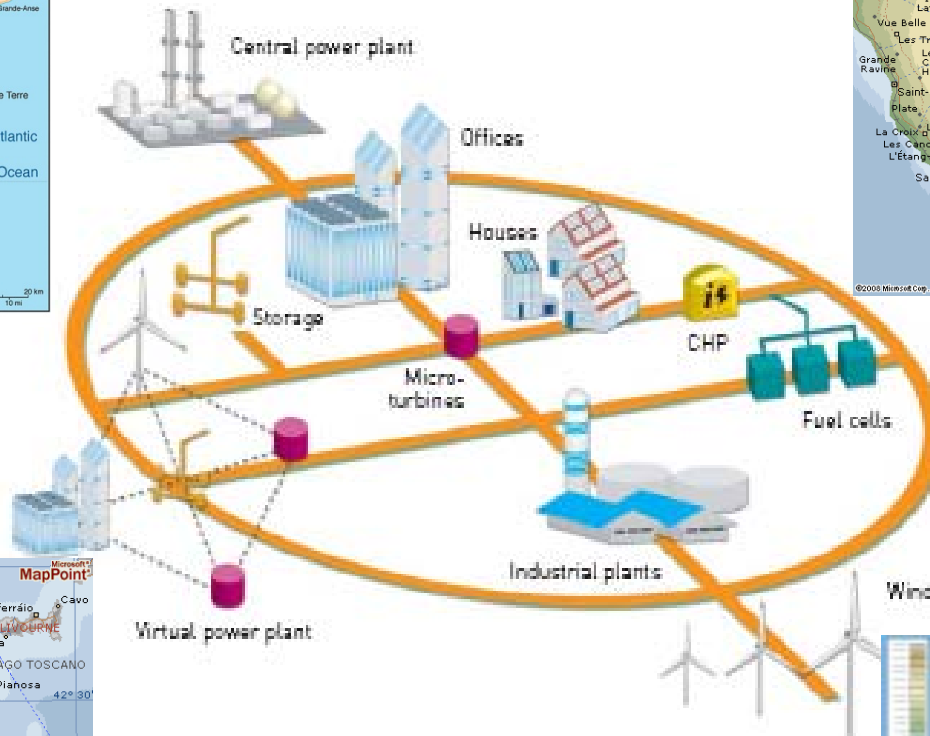
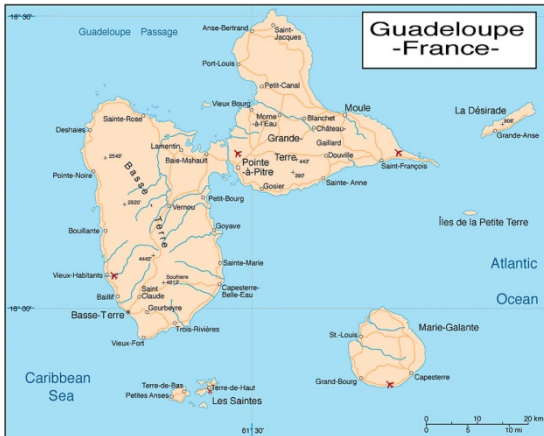


Workshop Restitution “Renewable Energies”

RETI

July, the 9 – 10th 2010

Perspectives Island Electrical Grid & RES – Program ??



Perspectives *I*sland *E*lectrical *G*rid & RES – Program ??

7 tasks to solve the problematic of the **high rate intégration of RES into the island electrical grid** (*Analyse and forecast of the resource (solar, wind, ..), analyse of the de l'influence RES-Grid, Energy storage,.....*)

- 1- Renewable Energy Production (*photovoltaic, wind farm, ocean energy...*)
 - 2- Sizing the « power plant with intermittent energy
 - 3- Interaction between grid and decentralized production units
 - 4- Balancing between electricity load and production : *Forecast of the production a short and very short time*
 - 5- Economy of the RES power unit (*Financing Mechanism, tariffs*)
 - 6- Island Electrical grid and **energy storage** (*Power Regulation, peak shaving*)
 - 7- **SMART GRIDS**
 - 8- ZERO NET BUILDINGS, ECO-DISTRICT, ELECTRICAL MOBILITY
-

Perspectives *I*sland *E*lectrical *G*rid & RES – Program ??

- The scientific steps following to answer to these questions
 - Measure of the energy resource (*forecast of the energy at short time*)
 - Forecast, interpretation of the RES comportement/operating
 - Storage Use to increase the intermitent energies overall quantity (*What kind of electric storage system ?, Centralized or decentralized storage?*)
-

Perspectives *I*sland *E*lectrical *G*rid & RES – *Program ??*

Track for Funds

- Call for Proposals ADEME, French Research Agency,
 - Cluster CapEnergies and the network Iles&Energies : Réunion, Antilles-Guyane, Corse with the support of EDF-SEI
 - European Program : all islands
 - Mobility, Experiments...
-

Perspectives *I*sland *E*lectrical *G*rid & RES – Program ??

EDUCATION

- France : School of Engineers (over the 3 french islands)

- International :

Summer School

European Program ERASMUS MUNDUS

*Renewable Energy Science and Sustainable Development
for Islands- RES²dls*

A photograph of a sunset over a body of water. The sun is a bright yellow circle in the center of the sky, casting a long, shimmering reflection on the water's surface. The sky transitions from a deep orange near the horizon to a lighter, hazy orange at the top. In the distance, several dark, silhouetted islands are visible against the horizon. On the left, a large island features a prominent lighthouse. To the right, another island has a smaller, square tower. The foreground shows the dark silhouettes of trees and foliage. The text "OTHER ISLANDS ?" is overlaid in the center of the image in a bold, orange, sans-serif font.

OTHER ISLANDS ?