Energy economies

Expected project CAPEX: Tbd in feasibility study

Mandating Authority: Guyane Energie Climat (GEC)

Summary
Define and implement energy savings based on the Energy Regulatory Commission (CRE), in the area of buildings.

Location and population
Guyanese municipalities, France
250'000 inh.

Social and environmental impact
The environment is preserved by reducing electrical energy consumption (produced essentially by thermal power plants).
The project also provides renewable energy to isolated sites (not connected to the grid).

Main stakeholders
GEC, ADEME, le futur syndicat d’électrification de Guyane et EDF, les Parcs nationaux (PAG) et régionaux (PNRG), the municipalities concerned by the project.
### STAGE 1: Concept Development, Site identification

**Target population**
Comunities in isolated areas - 250'000 inh

**Surfaces**
To be confirmed; the bourg of Saül isolated in the amazonian rainforest; an isolated neighborhood in Saint Laurent

**Climate**
Amazonian (Tropical)

### STAGE 2: Pre-Feasibility Studies

**Pre-feasibility study:** No

### STAGE 3: Feasibility Studies

**Feasibility study:** No

### STAGE 4: Permitting / Financing / Contracts

**Land concession signed:** To be defined in feasibility study

### STAGE 5: Engineering / Construction / Commercial Operation

**Environmental impact study:**
Implementation of solar protection system, roof insulation, natural ventilation to reduce air conditioning needs. Implementation of energy saving systems (air conditioning, lighting, refrigerators).

**Identified sources of fundings**
Tbd

**Engineering, Procurement and Construction Contractor:**
To be defined in feasibility study

**Operation and Maintenance Contractor:**
No

**Comments**
Production costs vary between 0.25 to 1 € / kWh. However, given the market operation mode, the consumer pays a lower price and that is the Energy Regulatory Commission who pays the balance, hence the interest of the latter to reduce the amount of energy power consumed. This is why it sets up financing. This system is valid in Corsica and Outre-Mer territory, and can be duplicated in this model in the Caribbean

### Solutions intégrées

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<td>To limit energy consumption in the territory (halve consumption due to air conditioning, insulating roofs with overhangs in caps); Identify the target (government, army, CTG, Education, hospitals ...)</td>
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