Ministry of Economy and Finance (HAITI) (MEF)
CENTRAL MANAGEMENT UNIT FOR PUBLIC-PRIVATE PARTNERSHIPS (UCGPPP)

CARACOL POWER PLANT MANAGEMENT IN PPP MODE

November 2017
INDUSTRIAL PARK IN THE NORTHERN REGION
The Caracol Park

The Caracol Industrial Park

Inauguration
October 22, 2012

Cost
241.5 millions USD

Total area
252 acres

Construction
8 industrial buildings
11300 m² (in 2012)

Job creation
10,400 jobs, 60% women
(in 2016)
Energy
The Caracol Power Unit

- Power plant with a capacity of 10 MW to 35 MW
- Requirement to use renewable energies (solar and/or wind)
- Billing rates: 100%
- Recovery (collection) rate: 95%

Goals
- Increase the access of the population to electricity
- Make the investment profitable by instilling a culture of payment into users
- Balancing the service
- Reaching international standards
- Transfer of knowledge
Population Serviced

- The industrial park
- Localities of
  - Limonade
  - Terrier Rouge
  - Trou du Nord
  - Sainte Suzanne
  - Caracol

Future prospects:
- Fort Liberté
- Ouanaminthe
PPP Decisions

For the purpose of:
- Production
- Transportation
- Distribution
- Commercialization
Benefits of PPP

In terms of:

- Technicity
- Commercialization
- Social engineering
Supply 24/7
Stable network at 98%
Technical crew available for maintenance tasks over the network
Monitoring and maintenance of the infrastructures of generation, transportation and distribution
Use of smart meters and modern circuit breakers
Commercialization

- Regular billing
- Use of billing software and subscriber management
- Schedule of invoice issuing
- Home-based recovery
- Commercial outsourcing granted to neighborhood committees
- Dimunition of illegal connections of meters
- Fraud finding procedure by a judge, and file of legal action against fraudsters.
### Commercialization

<table>
<thead>
<tr>
<th>LOCALITY</th>
<th>CLIENTELE</th>
<th>PENETRATION RATES</th>
<th>HOUSEHOLDS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CARACOL</td>
<td>1 831</td>
<td>70 %</td>
<td>2 600</td>
</tr>
<tr>
<td>TROU-DU-NORD</td>
<td>2 569</td>
<td>28 %</td>
<td>9 204</td>
</tr>
<tr>
<td>SAINTE-SUZANNE</td>
<td>131</td>
<td>2 %</td>
<td>5 560</td>
</tr>
<tr>
<td>TERRIER-ROGUE</td>
<td>912</td>
<td>14 %</td>
<td>6 326</td>
</tr>
<tr>
<td>LIMONADE</td>
<td>1 846</td>
<td>17 %</td>
<td>10 840</td>
</tr>
<tr>
<td>TOTAL</td>
<td>7 289</td>
<td></td>
<td>34 530</td>
</tr>
</tbody>
</table>
Social engineering

- Taking into account of the population’s ability to pay
- Communication and awareness-raising about sustainable features of provided services
- Survey and meeting with neighbourhood committee
- Plan for raising tariffs
Social impact

- Access/Electricity supply in 5 localities:
  - Caracol, Trou du Nord, Terrier Rouge, Sainte Suzanne, Limonade

- 7,800 households supplied with electricity

- Creation of additional activities

- Creation and supply of 1,000 micro and small and medium businesses in various sectors (Hospitality, restaurants, shops, food storage and supplies)

- Business in agriculture, agri-industries

- Universities, vocational centers
## Social impact (2)

<table>
<thead>
<tr>
<th>Label</th>
<th>Before 2012</th>
<th>After 2012</th>
<th>Projection 2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tariff</td>
<td>Fixed</td>
<td>Adjusted</td>
<td>Adjusted</td>
</tr>
<tr>
<td>Number of hours supplied</td>
<td>4 hours</td>
<td>24 hours</td>
<td>24h</td>
</tr>
<tr>
<td>Stability</td>
<td>98%</td>
<td>100%</td>
<td></td>
</tr>
<tr>
<td>Penetration rate</td>
<td>2%</td>
<td>28%</td>
<td>70%</td>
</tr>
<tr>
<td>Recovery (collection) rate</td>
<td>95%</td>
<td></td>
<td>95%</td>
</tr>
<tr>
<td>Customers relationships</td>
<td>manual</td>
<td>electronic</td>
<td>electronic</td>
</tr>
<tr>
<td>Type of meter</td>
<td>traditionnal meter</td>
<td>smart meter</td>
<td></td>
</tr>
</tbody>
</table>
# Social impact (3)

<table>
<thead>
<tr>
<th>Label</th>
<th>Before 2012</th>
<th>After 2012</th>
<th>Projection 2025</th>
</tr>
</thead>
<tbody>
<tr>
<td>Billing method</td>
<td>None</td>
<td>Meters</td>
<td>Meters</td>
</tr>
<tr>
<td>Billing rate</td>
<td></td>
<td>100%</td>
<td>100%</td>
</tr>
<tr>
<td>Commercial service</td>
<td>Unavailable</td>
<td>Active</td>
<td>Active</td>
</tr>
<tr>
<td>Technical service</td>
<td>Unavailable</td>
<td>Active</td>
<td>Active</td>
</tr>
<tr>
<td>Accounting service</td>
<td>Unavailable</td>
<td>Active</td>
<td>Active</td>
</tr>
<tr>
<td>Number of active subscriber</td>
<td>200</td>
<td>7800</td>
<td>21000</td>
</tr>
<tr>
<td>Supplied town</td>
<td></td>
<td>5</td>
<td>7 Fort Liberté Ouanaminthe</td>
</tr>
<tr>
<td>Town</td>
<td>Companies</td>
<td>System</td>
<td>Clients</td>
</tr>
<tr>
<td>-------------------</td>
<td>-----------</td>
<td>--------</td>
<td>---------</td>
</tr>
<tr>
<td>Jean Rabel</td>
<td>SIGORA</td>
<td>Hybrid</td>
<td>900</td>
</tr>
<tr>
<td>Mole St Nicolas</td>
<td>SIGORA</td>
<td>Hybrid</td>
<td>1100</td>
</tr>
<tr>
<td>Pico Islands</td>
<td>SIGORA</td>
<td>Solar</td>
<td>50</td>
</tr>
<tr>
<td>Les Anglais</td>
<td>Earth Spark</td>
<td>Hybrid</td>
<td>450 (20 commercials)</td>
</tr>
<tr>
<td>Les Coteaux</td>
<td>ENRECA</td>
<td>Hybrid</td>
<td></td>
</tr>
<tr>
<td>Tiburon</td>
<td>Earth Spark</td>
<td>Hybrid</td>
<td>In progress</td>
</tr>
</tbody>
</table>

UCGPPP-November 2017
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