

# Remire - Mana - Saint-Laurent-du-Maroni Grid-connected roof-mounted solar plant of three High Schools



Remire High Schools

## Country

France

## Client

APEX BP Solar

## Date

2008-2009

## Sogreah services

- ▶ Technical assistance
  - Design and tender procedures
  - Construction monitoring
  - Final acceptance and commissioning

## Background

Roofs of buildings under construction are interesting areas for installing PV modules. Our Client, one of the world's largest solar companies, is managing the installation of large solar plants on the roofs of three High Schools under construction in French Guyana (South America) (totaling up 2.7 MWp).

Sogreah - SERT participates as a technical assistant leading all the engineering studies in partnership with the architects of the project: slab layout drawing and calculation of the energy output, validation of the design layouts.

Sogreah - SERT undertakes all the construction monitoring of the PV plants, in partnership with EauDyssée (a guyanese consultant office).

This involves a highly comprehensive coordination between the different teams and partners in charge of every parts of the construction (road and electricity, services, civil engineering, architecture, etc).

## Services provided by Sogreah - SERT

### Design, tender procedures and layouts

- Defining all implementation possibilities for PV modules, inverters, transformers, cables and technical premises.
- Electrical design of the plant.
- Calculation of the output of the plant.
- Slab layout drawings including the roof mounting systems.
- Layout drawings of technical premises and cables network.
- Coordination with technical, administrative and security partners.

## Construction monitoring

- Final technical choices.
- Carrying-out of all administrative procedures: works declaration, negotiation with EDF (Electricity French Utility) regarding the connection to the grid, request for the feed-in tariff and the operation authorizations.
- Writing of the tender documents (divided into several lots for both supply and installation).
- Coordination and scheduling of the works.
- Monitoring of the progress of the works.
- Final acceptance of the and follow-up of the plants performances during the first weeks of operation.