Mali - Decentralized rural electrification of 40 villages

Country
Mali

Client
Decentralized Service Society (DSS) of Yeelen Kura and Koraye Kurumba

Date
2006-2008

Sogreah services
- Technical assistance

Description

Mali launched an important rural electrification programme in order to increase the rural area electrification rate by 10 % within the next five years (2005-2009) and by 80 % near 2020.

To that purpose, concessions have been given (by calls for tender) to private operators in charge of the system implementation and especially its exploitation for a 20-year period.

This important programme, supported by the World Bank, reinforced the two Decentralized Service Societies (DSS) founded in Mali since the 2000s, that is Yeelen Kura (Koutiala) and Koraye Kurumba (Kayes).

Yeelen Kura (a EDF and Nuons subsidiary company) and Koraye Kurumba (a EDF and TOTAL subsidiary company) have received 2 concessions in order to electrify about 10 000 homes by 2008, that is to say 5 000 homes per DSS (40 villages, 20 villages per DSS).

The technologies employed for these houses' electrification are the micro distribution network in conjunction with a diesel power station and the dissemination of photovoltaic solar home systems.

During this important "rise in power" phase, the two Decentralized Service Societies (DSS) benefit from the support of the ADEME, EDF and TOTAL.

Sogreah-SERT has been selected to ensure technical assistance towards these two DSS.

SOGREAH CONSULTANTS

Services provided

- The training of the technical managers to the feasibility studies: general methodology, Elvira software and GPS mastering, demand analysis, elaboration of enquiry forms.
- Drafting of a typical implementation file.
- Search for material (at the local and international level).
- Definition of a specific product: specific interface with power and/or energy limiters.
- Support for the writing of a procedures guide.
- Writing of a typical call for tender file for the companies consultation (with technical specifications).
- Follow-up of the works.
- Works final acceptance (training to the use of the reception equipment, creation of a typical reception weft, acquisition of the first micro-networks).
- Design of 2 platfoms to test the electrical receivers (lamps essentially) and the interface (before implementation): impact and consumption test of the power factor, test of the different neutral systems.