



Country

Burkina Faso

Client

ADEME (French Agency for Environment and Energy Management) - UNESCO

Date

2006-2007

Sogreah services

- ▶ Design of training platforms
- ▶ Running of the first training sessions



Background

UNESCO and ADEME wished to support the International Institute for Water and Environment Engineering, created after the Inter States School of Engineers in Rural Equipment (EIER) and the Superior Technicians School of Hydraulic (ETSHER) grouping.

The partnership, initiated in 2004, has been dedicated to the elaboration of a training session for future trainers in the field of rural electrification, focusing on the three following topics: solar systems (kit and generator),

solar pumping and electrical micro distribution networks. SERT, entity of Sogreah, Research Department specialized in rural electrification, and generally speaking in the access to energy in rural areas, was chosen by UNESCO and ADEME to carry the project through.

Meetings organized during the training mission in Burkina in June 2006, with the Electrification Development Fund (FER) and the Energy Direction, allowed to show the concern of these organizations for this training platform.

Moreover, the Inter States Committee for Drought Control in Sahel (CILSS) and the European Commission Delegation in Burkina Faso had a particular interest in the solar pumps acceptance. Since the PRSII is in its installing phase, the programs managers should be able to accept the final works.

SERT was thus in charge of a second skills transfer specifically dedicated to solar pumping systems and to their technical acceptance.



Description

Phase 1: Training conception and elaboration of four modules.

The practical work platforms group:

- A "24 V CC photovoltaic generator" platform with its 12 V CC, 24 V CC and 230 V CC applications;
- A "a solar power pumping system" platform with or without an impedance adaptator;
- An "suitcase dedicated to the installation and maintenance of a solar kit";
- A "low voltage micro distribution network platform" (Interface and neutral system).

The writing of all the technical instructions, user's guides and class material was added to

the design of these training platforms, as well as the thread of the various practical work that could be given according to the type of trainee (decision-maker, technical manager, installer).

This platform has been operational since June 2006, date of the first training session organized and run by SERT in order to educate the future trainers.

Phase 2: Design of an extra module dedicated to the acceptance of a solar pump

- Design of a reception module for solar pumping (educational documents, supply of measurement tools and design of a reception suitcase).

- Running of a complementary training for future trainers on the "solar pumps reception" module (about 15 appontees of the PRSII markets in Mali, Burkina Faso and Niger attended this training). This training was run by SERT, in collaboration with the Sahel Solar Energy Company, in order to benefit from the practical experience acquired by the latter during its previous projects (particularly PRSI and spanish projects). The training was held late July 2007.