



Country
Mali

Client
Ministère de l’Energie,
des Mines et de l’Eau
Direction Nationale de
l’Energie (DNE)
and Water Corporation

Date
2007-In progress

Sogreah's services

- ▶ Demand study
- ▶ Optimum Investments Plan
- ▶ Financial simulations

Background

The current situation regarding the electrical system in Mali is characterised by strong demand, an insufficient production capacity leading to load shedding, and very high thermal generation cost. The aim of the study is to determine the least-cost plan for developing the Malian interconnected network up to 2020.

Objective

The demand study takes into account the expansion of the transmission and distribution networks and the possible connection of autoproducers (gold mines, cotton ginning plants, etc.).

The options in terms of energy sources include developing the hydropower potential and imports from Ivory Coast and Ghana.

Description of project

The Optimal Investment Plan includes the study of the optimal production and transmission plan and the 30 kV network expansion (small-scale transmission), the medium- and low-voltage distribution investment plan as well as financial simulations relating to the Optimal Investment Plan.

Services provided by Sogreah

- Demand study:
 - Data collection, analysis and evaluation;
 - Electricity demand forecast.

- Optimum Investments Plan:
 - Production capacity study (hydroelectric sites and classification);
 - Production capacity study (thermal);
 - Master plan for networks;
 - Study of production, transport and distribution scenarios.
 - Optimal development and investments plan;
- Financial simulations:
 - Financial projections.
 - Computerised data bank.