

Cameroon - Nachtigal hydropower plant (280 MW) and associated 225 kV transmission line



Country

Cameroon

Client

- ▶ Alucam (Compagnie Camerounaise de l'Aluminium)
- ▶ Alcan Inc.

Date

2006

Sogreah's services

Technical feasibility study:

- ▶ General design
- ▶ Hydrology
- ▶ Hydraulics
- ▶ Civil engineering



Context

As part of the modernisation and possible expansion of its primary aluminium smelter, Alucam wishes to analyse the possibility of building:

- ◆ A 230 MW hydropower plant (with future expansion up to 280 MW).
- ◆ A 225 kV transmission line between Nachtigal and Yaoundé.
- ◆ A connection to the existing substation at Oyomabang near Yaoundé, which would supply electricity to the smelter.

- ◆ The infrastructure and site installations.

Study programme

Phase 1: Conceptual design
(firm tranche)

Phase 2: Project definition
(optional tranche)

Phase 3: Detailed design and project implementation
(optional tranche)

The current phase is the conceptual design phase, the aim of which is:

- ◆ to analyse and confirm the feasibility of the project from the technical and economic points of view;
- ◆ to provide information and recommendations with regard to project parameters taking into account the local and national context.

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