

*A Fast Track Power Plant*

# Kossodo Power Station, Unit G1

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**Built 2000  
for**



**SOCIETE NATIONALE D'ELECTRICITE  
DU BURKINA**

**by**



**Burmeister & Wain Scandinavian Contractor A/S**

# Kossodo Power Station, Unit G1

## Project Background

Power demand in Ouagadougou is increasing by approximately 10% every year, but several of the older power generators are becoming obsolete and unreliable. Electricity consumption also increases greatly during the hot season from March until June each year. Based on experience from previous years it was foreseen that available power supplies would not meet the electrical demand from about March 2000. Consequently, certain areas of Ouagadougou would be without power for long periods every day. The Danish Government, represented by the Ministry of Foreign Affairs (DANIDA), decided to provide a grant to the Government of Burkina Faso for an emergency fast-track extension of the power production capacity in Ouagadougou to ease the very critical power supply situation.

## Project Execution

The contract for a 3.8 MW extension of the generating capacity in Ouagadougou was entered into with Burmeister & Wain Scandinavian Contractor A/S (BWSC) in October 1999. COWI was appointed by DANIDA as the Engineer for the project. The ambitious programme for this fast-track project sets the start of electricity production only 5 months after signing the Contract, followed by 28 days successful reliability test, and immediate issuing of the Taking Over Certificate (TOC). The plant is operating on diesel oil, but the lay-out is prepared for installation of exhaust gas boiler and heavy fuel oil separator. Excellent collaboration between all involved parties made it possible to hand over the plant to the owner, Société Nationale D'Electricité du Burkina (SONABEL) in accordance with the agreed timeframe in the contract.



Engine room

## Summary

Contract	
Type	Turn-key
Contract	October 1999
Handing over	April 2000

## Technical Data

Diesel Engine	
Make	MAN B&W Diesel, Holeby, Denmark
Type	18V 28/32H, 4 Stroke
Speed	750 rpm
Output (shaft)	3,960 kW

## Alternator

Make	A. van Kaick, Germany
Voltage/frequency	11 kV/50Hz
Output, 100% load	3,800 kW

## Radiator Cooler

Make	GEA, France
Type	Induced draft
Cooling capacity	3,058 kW

## Step-up Transformer

Make	ABB, Finland
Type	ONAN
Ratio	11/33 kV

## Power Building

Height	8 meters
Length	20 meters
Width	8 meters
Stack	19 meters
Crane	2 tons

## Civil Work

Subcontractor	SOCIETE FADOUL TECHNIBOIS Ouagadougou, Burkina Faso
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## Burmeister & Wain Scandinavian Contractor A/S

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