

- A partnership for Life

Sapugaskanda BOO Power Station



Constructed in 1998
for

ASIA POWER (PRIVATE) Limited
Sri Lanka

by



Sapugaskanda BOO Power Station Development and establishment

Completed 8 months before contract completion date, within budget and exceeding performance targets - the Sapugaskanda BOO Power Plant is an outstanding example of international cooperation and achievement.

Sri Lanka's far-sighted government policies, coupled with international and entrepreneurial financial and contracting skills, have enabled this privately funded power plant to be completed 12 months from effective date of contract. This is faster than publicly funded power projects anywhere else in the world for a plant of this size and the complexities involved in the financing of it. Early completion has enabled the Ceylon Electricity

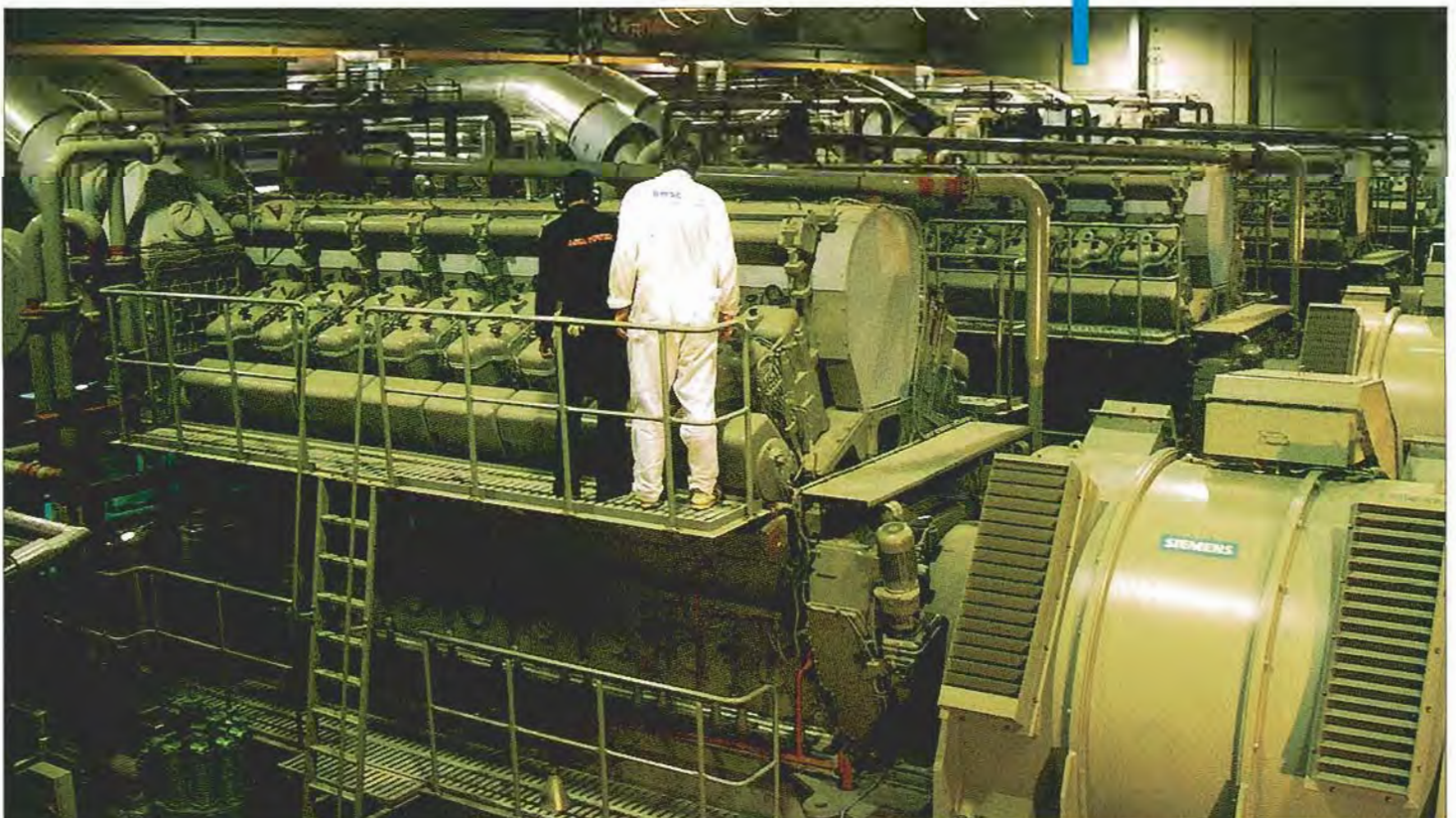
Board to conserve precious and rapidly dwindling water resources. Even during testing and commissioning, the plant made major contributions to the CEB system - satisfying the demands of over 125,000 households for 30 days.

Development and implementation of the project has been the responsibility of Deutz UK Ltd. and Burmeister & Wain Scandinavian Contractor A/S (BWSC) of Denmark respectively. The generating sets have been supplied by MWM AG of Germany and the plant engineering, procurement, construction and commissioning have been executed by BWSC. The majority of the funding for the project came from foreign investors and lenders and we are pleased to have John Keells Holdings Ltd. as a local investor involved in the project.

Employing almost 450 Sri Lankan engineers, master craftsmen and skilled tradesmen during construction, the project has combined international contracting and manufacturing experience with skilled local resources.

In the area already extensively utilised for electricity generation and transmission, the plant has been designed to create a visual harmony within the natural features of the site. Special attention has been given to the design of the plant, to maintain the quality of life for local residents and neighbours.

Engine hall with
4 Deutz MWM engines





Inspection
of the Plant

Operation and Maintenance

Operation and maintenance (O&M) of the complete power plant is the responsibility of a consortium of Deutz UK and BWSC. The contract for O&M is for 20 years from commencement of commercial operation. Asia Power (Private) Limited will be responsible for the billing, administration and management of the company.

The O&M consortium consists of a small technical team from Deutz UK and BWSC. Additionally, the organization employs 50 Sri Lankan operating and maintenance personnel, who have been developing their technical skills during training courses leading up to commencement of commercial operation. Extensive training has taken place both on and off site and will continue in the future during plant operation. With the plant being operated

and maintained by this strong team of skilled personnel, it will be able to produce more than 330 million kWh per year. As part of the O&M services, the O&M team will manage the supply of fuel and lubrication oil on behalf of the owner.

Benefits

The power station will provide a much needed injection of electrical power into the Ceylon Electricity Board System and will make an important contribution to the rapidly expanding economy of Sri Lanka. CEB's expanding portfolio of thermal power plants will reduce its dependence on hydro power which itself relies on substantial rainfall in the catchment areas.

Summary

Contract Type	Turn-key
Contract award	June 1997
Handing over	June 1998

Technical Data

Diesel Engines

Make	Deutz MWM
Type	8 x 16V BVM 640
Speed	600 RPM

Alternators

Make	Siemens
Type	IDK 4835 4BE05-Z
Rating	8 x 8,000 kVA
Voltage/frequency	11kV/50Hz
Output at 100% load	8 x 6,350 MW

Radiator Coolers

Make	ABB Komponent
Type	Induced draft
Cooling capacity	8 x 2,842 kW

Exhaust Gas Boilers

Make	Aalborg Sunrod
Steam capacity	4 x 1150 kg/h
Steam pressure	8 bar

Fuel Treatment

Make	Westfalia Separator GmbH
Type	OSB35
Capacity	3 x 6.3 m ³ /h

Step-up Transformers

Make	Pauwels International N.V.
Type	ORV 40/275
Ratio	11 kV/132 kV
Rated power	2 x 40 MVA

Civil Work

Subcontractor	Lemminkäinen Construction
Power building area	1900 m ²
Height	11.5 m
Overhead cranes	2 x 5 ton
Stacks	2 x 50 m

OWNER AND DEVELOPER
ASIA POWER (PRIVATE) Limited

80 Navam Mawatha · Colombo 2 · Sri Lanka

SHAREHOLDERS*

NISSHO IWAI
Nissho Iwai Corporation

CDC
Commonwealth
Development Corporation

IFC
International Finance
Corporation

DEG
Deutsche Investitions und
Entwicklungsgesellschaft


John Keells Holdings

ifu
Industrialiseringsfonden
for Udviklingslandene

SENIOR LENDERS

Commonwealth Development Corporation
International Finance Corporation
Deutsche Investitions und Entwicklungsgesellschaft

SPONSORS, SHAREHOLDERS* & CONTRACTORS

DEUTZ UK LTD is a major subsidiary of DEUTZ AG of Cologne, Germany, producers of 10 H.P. to 7,400 H.P. of diesel engines and generating sets. DEUTZ UK took the lead role during the development of the project and will be providing key staff and expertise for the maintenance of the plant.

Burmeister & Wain Scandinavian Contractor A/S (BWSC) is an engineering and contracting company specialized in the design, engineering, procuring, supply, erection, commissioning and delivery of diesel engine driven power plants. The company is also involved in full plant operation and maintenance, training and rehabilitation services.



DEUTZ UK LTD

2 St Martins Way · London SW17 0UT
Tel.: +44 0 181 781 7200 · Fax: +44 0 181 946 3280



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

P.O. Box 235 · DK-3450 Allerød · Denmark
Tel.: +45 48 14 00 22 · Fax: +45 48 14 01 50