

ATHERINOLAKKOS
102 MW DIESEL POWER STATION
CRETE - GREECE



BUILT IN 2004 FOR



PUBLIC POWER CORPORATION S.A.

BY A CONSORTIUM LED BY



Burmeister & Wain Scandinavian Contractor A/S

New 102 MW Power Plant

Public Power Corporation, Greece, has as part of the upgrading strategy for the power production in Crete developed the area at Atherinolakkos in the south-east part of Crete. The first phase, a 102 MW low speed diesel plant, was awarded to the Consortium with BWSC as Consortium Leader. Included was also a large infrastructure project consisting of fuel unloading facilities, sea water intake and filtration, roads, pipe and cable channels for the complete power station. The first diesel generating unit commenced commercial operation in August 2004, more than three months before Contractual date, followed by the second unit in September 2004, more than six months before Contractual date.



Consortium:

Burmeister & Wain Scandinavian Contractor A/S

Consortium Leader responsible for overall project management and design, design and supply of electromechanical auxiliary systems, supply of SCADA system, transportation of diesel engines and generators, supervision as well as training.

BWSC Hellas S.A.

Responsible for erection of diesel generating units and test and commissioning.

Mitsui Engineering and Shipbuilding Co. Ltd.

Responsible for supply and supervision of installation of diesel engines.

Athena SA

Responsible for civil and building design, construction of all civil works including tank farm, sea water intake, industrial and sanitary waste water treatment as well as erection of electromechanical systems.

Summary

Contract

Type Turnkey EPC
Effective Contract July 31, 2002

Technical Data

Burmeister & Wain

Scandinavian Contractor A/S

Diesel Engines

Make Mitsui MAN-B&W
Type 2 x 12K90MC- S, 2-stroke

Generators

Make ALSTOM Power S.A.
Rating 2 x 64,125 MVA
Voltage/frequency 13.8 kV / 50Hz
Output at 100% load 2 x 51,120 kW

SCADA System

Make ABB Industrial IT 800xA
Application BWSC
Remote I/Os +7,000

Waste Heat Recovery System

Make Aalborg Industries
Type Water tube AV-6N with sootblowing
Capacity 2 x 11 t/hour

Desalination Plant

Make Alfa-Laval A/S
Type Evaporation type TVC-4-720
Capacity 2 x 720 t/day

Athena SA

Power Station Buildings (WxLxH)

Power house 55x60x28 m
Administration block 37x39x17 m
Workshop blocks 17x51x8 m + 20x47x11 m

Stack

Height 122 m
Diameter bottom/top 12/9 m

Oil Storage Tanks

HFO 2x22,500 m³
DO 1x1,500 m³ + 1x6,000 m³

BWSC

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