

1st PHASE - 3,3 MW

# PICO POWER STATION

## THE AZORES



BUILT IN 2006 FOR



Electricidade dos Açores

ELECTRICIDADE DOS AÇORES  
BY



Burmeister & Wain Scandinavian Contractor A/S

## PICO POWER PLANT EXTENSION PROJECT

Pico Power Plant extension unit no.6, of 3,3 MW, is designed and constructed by BWSC as the first phase of a 10 MW extension program, with a Power House Building and associated systems prepared for future addition of 2 more units.

The scope of work includes an extensive upgrading of the existing sludge and oily water treatment system, involving design and construction of a new state-of-the-art treatment plant for the entire power plant with chemical de-emulsification, to ensure clean effluent water complying with the most stringent requirement of today's standards.



### Summary

#### Contract

Type ..... Turnkey plant extension  
Contract award ..... April, 2005  
Handing over ..... June, 2006

### Technical Data

#### Diesel Engines

Make ..... MAN Diesel AG, Augsburg, Germany  
Type ..... 1 x 7L32/40, 4-stroke  
Speed ..... 750 rpm

#### Synchronous Alternators

Make ..... ABB, Finland  
Type ..... AMG 0710MR08DSE  
Rating ..... 4.220 KVA  
Voltage/frequency ..... 6 kV / 50 Hz  
Output at 100% load .... 1 x 3258 kWe at Pf 0.8

#### Units

Builder ..... Pipecon, Denmark/Poland

#### Lube Oil Treatment

Make ..... Alfa Laval, Denmark  
Type ..... 1 x SU 816  
Rated capacity ..... 1.05 m<sup>3</sup>/h

#### Radiator Coolers

Make ..... Friterm, Turkey  
Type ..... FYKS 125 23 43 2,1/2,4 LHT  
Cooling capacity .... HT/ LT: 1150 kW / 1534 kW

#### Power House

Height ..... 8,7 m  
Length ..... 21 m  
Width ..... 18,7 m  
Overhead crane ..... 1 x 20 T

#### Oily Water Effluent System

Capacity ..... 10 m<sup>3</sup>/hr  
Max. Total Oil in Effluent ..... 0-5 ppm

#### Stack

Make ..... VL staal A/S  
Height ..... 1 x 20m  
Liner ..... 2 x 700mm



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