

Energia Energy

Central Geotérmica da Ribeira Grande

S. Miguel, Açores **Ribeira Grande Geothermal Plant** S. Miguel Island, Azores

The geological characteristics of the Azores (located in one of the world's regions of greatest seismic activity) have allowed the construction of a power station in which the working fluid is the steam produced within the earth's crust, captured at a depth of 600 metres.

The Ribeira Grande geothermal power station is one of the few in the world. Since its construction it has constituted the benchmark for this type of facility.

The project was developed in two stages, leading to a total electric power production of 14 MW (13 MW in the grid), accounting for some 20% of the total electricity consumption of the island of São Miguel.

The 1st stage (6 MW) was completed in 1993 and the 2nd stage (8 MW) in 1999.



Vista geral da central geotérmica da Ribeira Grande Em primeiro plano, a bateria de condensadores General view of the Ribeira Grande Geothermal Plant Foreground: the condenser yard

Intervenção SETH / SETH's work share

Edifício de Comando / Control building Fundações da tubagem / Pipework foundations Suportes de tubagems / Pipe bridges Edifício da bomba S.I. / Fire pump building Edifício do gerador / Emergency generator building

Resumo da Obra Work Summary

Cliente

Tipo de contrato

Data de construção

Custo

Projectista

Ormat Atlantic / EDA Chave-na-Mão *Turn-Key* 1992 - 1993 (1ª Fase) 1998 (2ª Fase) PTE 160.000.000 (1ª F) PTE 140.000.000 (2ª F) Ormat Atlantic, Inc.

Client Contract type

Construction period

Cost

Architect & Engineer



Avenida Tomás Ribeiro, 145 2790-467 QUEIJAS - Portugal Tel: +(351) 219 43 14 79 / Fax: +(351) 219 43 15 18 e-mail: seth@seth.pt www.seth.pt