Case Study

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Project

UTE Porto de Sergipe I CCGT Power Plant, Brazil

Brazil's demand for energy continues to grow and there is a need for optimised gas power solutions. The development of the Porto de Sergipe power plant will allow the country to meet growing demand and provide the necessary complement to its intermittent renewable energy sources.

Location
Barras dos Coqueiros, SE, Brazil

Client
CELSE – Centrais Eletricas de Sergipe

Contractor
General Electric Switzerlands GmbH

Year
2017-2018

What We Delivered

DIAMETER	PRESSURE	METERS	JOINTS	DELIVERING
50mm up to 2200mm	PN 6	31 km	Adhesive bonded joints for GRE, Double Bell Coupler and Laminated Joints for GRP	Main and Secondary cooling water system, Seawater Intake line

Wavistrong™/Alphacor Glass Reinforced Epoxy (GRE) pipe systems have high chemical and corrosion resistance as well as excellent mechanical, physical and thermal properties making them successful under the most demanding conditions. We supplied the project a range of diameters from 50mm up to 600mm.

For main cooling water and secondary cooling water systems, our Fiberstrong™ Glass Reinforced Polyester (GRP) were selected as they are well suited for coastal areas as they are strong, flexible and consist of a resin rich reinforced liner, structural wall and a resin rich exterior layer. Diameters ranged from 700mm to 2200mm as well as the necessary fittings.

In addition to the bulk and prefabricated spools, Future Pipe Industries provided comprehensive engineering services including stress and surge analysis, detailed drawings, spooling concept, steel supports, bolting and in-field supervision.

> *Brazil benefits from an extensive amount of wind and hydro-power, GE's 7HA technology will play an important role in enabling a quick response to fluctuations in grid demand and adapting quickly to weather changes.*

Project

Industrial-Phosphatic and Compound Fertilizers Complex

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