



Case Study WATER

Location
Kingdom of Saudi Arabia

End User
Saudi Aramco

EPC
China Petroleum Pipeline Company

Year
2016

Project

Ras Tanura Re-Route Pipeline Project

Saudi Aramco were keen to address an ongoing issue with leakage in their existing carbon steel pipe network carrying raw water. Coupled with high maintenance costs, including coating and lining, Saudi Aramco were looking for a better solution for potable and utility water pipelines.

What We Delivered



DIAMETER
600mm



PRESSURE
Up to 35 Barg



METERS
45.6 km



JOINTS
REKA Seal Lock
Joints (REKA SLJ)



DELIVERING
Potable & Utility
Water

Our engineering and design teams worked to replace the existing carbon steel network with Reinforced Thermosetting Resin (RTR) Wavistrong™ Glass Reinforced Epoxy (GRE) pipes. The scope of work involved the relocation of a network of 250 kilometres of potable and utility water pipelines starting from the Desalination Plant in Rahima City and finishing in Qatif City.

The pipeline is designed to withstand temperatures of 65oC and pressures of 35 barg. FPI carried out extensive hydrotesting of the network to ensure operation at the design pressures. To ensure the pipeline does not cause waste, contamination and to deliver an appropriate quality and standard, the line was certified via the Water Regulations Advisory Scheme (WRAS).

Ras Tanura area is best known for being home to one Saudi Aramco's most established refineries with a crude distillation capacity of 550,000 barrels per day. Saudi Aramco has built numerous artificial islands for easier docking on the coast of Ras Tanura. The area houses networks of pipes for the offshore oil rigs and production facilities as well as water networks.

Gallery



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