



## Project

# Geothermal Power Plant

Germany is developing its geothermal energy production with 34 geothermal energy plants in operation as of 2018. The German Geothermal Association (Bundesverband Geothermie) estimate that a further 30 plants are currently being planned or constructed.

## Case Study

# INDUSTRIAL

### Location

City of Bruchsal, Germany

### End User

Geothermie-Gesellschaft Bruchsal GmbH/EnBW

### Contractor

Eugen Engert Brunnen und Rohrleitungsbau

### Year

2017-2018

## What We Delivered



DIAMETER  
150mm



PRESSURE  
25 bar



METERS  
1.8 km



JOINTS  
Lamination



DELIVERING  
Desalinated  
Water

In 2009 the 5<sup>th</sup> geothermal plant in Germany was commissioned and built in the City of Bruchsal to supply heat energy. Following Renewable Energy Act (EEG) revisions, a change was necessary and electricity generation became the primary focus. The plant required some upgrading, particularly the steel re-injection system piping which was corroding.

Working with the contractor, FPI worked to exchange the corroded steel piping re-injection system with a Wavistrong™ GRE pre-insulated piping system. Glass fibers are wound on to a smooth rotating mandrel and impregnated with a cured epoxy resin. The resulting pipe has a high chemical and corrosion resistance as well as excellent mechanical, physical and thermal properties. The Wavistrong™ piping system we designed and installed can withstand the challenging conditions posted by thermal water including a high concentration of carbonic acid ( $H_2CO_3$ ) with temperature peaks of 125°C as well as a constant pressure of 25 bars. The system also meets fully in terms of compliance with ISO 14692 and WEG.

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Geothermal energy is a source of hope for climate change. The possibilities offered by this energy source are impressive; it is inexhaustible, not dependent on wind or weather, operational by day and night as well as being capable of contributing to the production of base load power requirements. Geothermal energy is considered a hidden champion in the energy sources of the future.

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Gallery



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