

Borehole heat exchanger system PORR Upper Austrian branch.

Data and facts

Company

Type

Geothermal energy

Runtime

11.2017 - 05.2018

Principal

PORR Bau GmbH

[Project report online](#)

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Geothermal energy in Linz: a borehole heat exchanger field for heating and cooling.

The heat exchangers were created using hydraulic drilling. The energy stored in the earth is brought to the surface by means of double U-tubes which are filled with a thermal transfer medium. The energy extracted from the soil is brought to the desired temperature by means of a heat pump before being passed on to the end user. The heat intake during the cooling process in the summer months regenerates the heat exchangers in preparation for the heating period

Technical system data.

Number of heat exchangers	46, 105m each
Heating capacity	305 kW
Cooling capacity	217 kW
Heating energy consumption	285.000 kWh/a
Cooling energy consumption	170.000 kWh/a

Impressions

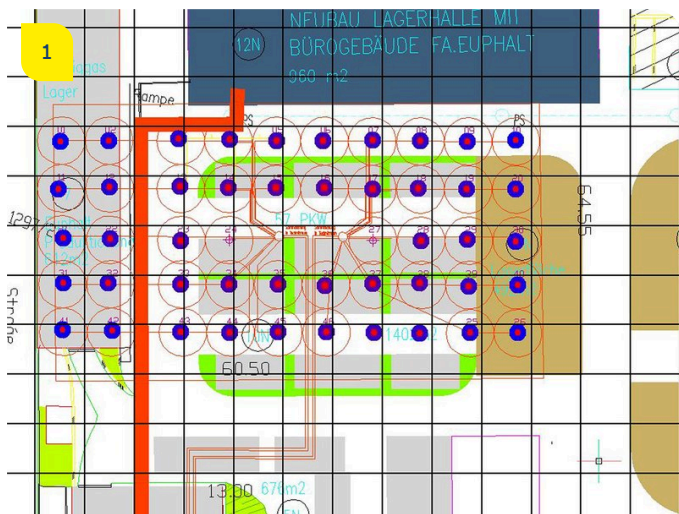


Image notes

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Change in the subsurface temperature caused by the heat exchanger field after 30 years of operation.

PORR Umwelttechnik used suitable software tools to calculate energy yields and the system's impact on its surroundings.

Do you have questions about the project or would you like to learn more? Feel free to contact us for further information.

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