



FH Campus Wien – House of Health Sciences

Data and facts

Company

PORR Verkehrstechnik GmbH

Type

Geothermal energy, Special civil engineering

Runtime

09.2022 - 04.2023

Principal

FH Campus Wien House of Health Sciences GmbH

[Project report online](#)

www.porr-group.com

PORR

Sustainable campus for Applied Nursing Sciences

As part of the preliminary investigations, a thermal response test was also carried out, which was incorporated into the water law authorisation and the simulation of the plant. In a construction period of 6 months, PORR Bau GmbH - Specialised Civil Engineering Department produced a total of 140 geothermal probes with a total length of approx. 27km. The installed geothermal system covers 85% of the new building's heating requirements and 75% of its cooling requirements. To this end, provides the building with around 1,350 kW of heating capacity or 2,250 MWh of heating energy and 1,000 kW of cooling capacity or 1,450 MWh of cooling energy. The 140 deep probes were connected at a total of seven distribution points in the basement. From there, collecting pipes run underneath the floor slab to the energy centre.

Impressions

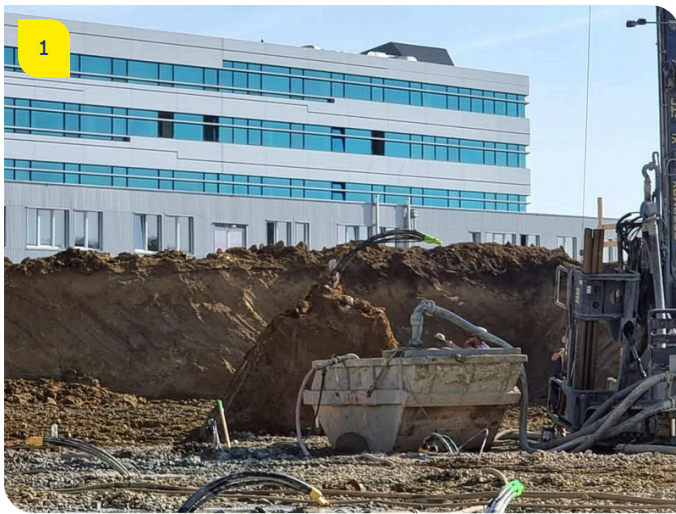


Image notes

1

On the trail of heat.

Geothermal probes up to 190m deep are drilled into the ground using a special drilling rig.

2

27 km of cables need to be distributed.

The geothermal probes are connected to a total of seven base plate manifolds.

3

Two drilling units at final excavation level.

Several pieces of equipment are used simultaneously to ensure rapid construction progress.

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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