PROJECT REPORT

# SAWI Sport Arena Vienna

Data and facts

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|---|---|
| **Company** | PORR Bau GmbH |
| **Type** | Geothermal energy, Special civil engineering |
| **Runtime** | 07.2022 - 10.2022 |
| **Principal** | MA51 Sport Vienna – BA15 |

Project report online

**www.porr.at**

## Vienna Sports Arena builds on sustainable geothermal energy.

**High standard thanks to near-surface geothermal system. A** total of 70 geothermal probes with a total length of 10,500m were installed to provide the Sport Arena Wien with an efficient and sustainable supply of heating and cooling. These probes supply the building with 607 kW of heating capacity or 972 MWh of heating energy and 382 kW of cooling capacity or 459 MWH of cooling energy. In addition, PORR Bau GmbH's Specialised Civil Engineering department, which was awarded the civil engineering contract for the preparatory measures, constructed 284 SOP piles of DM 55cm and DM 90cm for the deep foundations, connecting pipes for the geothermal probes, sewerage and earthworks as well as the concreting of the cleanroom.

# Impressions

# Image notes

1 **Distribution beam of the geothermal probe system.**

The lines are connected to a distribution bar in the distribution room.

2 **When energy flows.**

Routing of the connecting pipes to the central plant room in the trench.

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**Efficiency on the construction site.**

Simultaneous pile and geothermal probe installation at the construction site before the start of excavation work.

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**Production of geothermal probes with two equipment units.**

To speed up construction progress, work is carried out with several units in parallel.

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**Production of geothermal probes with three equipment units.**

Drilling of the geothermal probes with two drilling rigs and parallel production of bored piles at pre-lift level.

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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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