

## Conversion of existing building European Patent Office, Vienna – Austria

### GENERAL INFORMATION

Construction site:  
European Patent Office  
Rennweg 12  
1030 Vienna, Austria

Project execution period:  
2022-2024

Client: PORR Bau GmbH, NL Hochbau Vienna



### PROJECT DESCRIPTION

Measures taken by the Vienna subsidiary of the European Patent Office to ensure sustainability include the use of renewable energies and energy recycling. The climate-positive building uses a geothermal system with 20 geothermal probes and a heat pump. Any additional energy demand is covered by a large-scale PV system and an internal storage system. As a whole, this system creates a CO<sub>2</sub> sink, with the solar panels generating more energy than the building consumes. The surplus energy is fed into the power grid.

To heat and cool the extension, 20 GEROtherm® DUPLEX geothermal probes were sunk to a depth of around 210 m.

### PROJECT PARTICIPANTS

Client:  
**European Patent Organisation EPO**  
Rennweg 12  
1030 Vienna, Austria

Planner:  
**ATP Wien Planung GmbH**  
Landstrasser Hauptstr. 99-101  
1030 Vienna, Austria

Boring company:  
**PORR Bau GmbH – Special Civil Engineering Department**  
Absberggasse 47  
1100 Vienna, Austria

### GEO THERMAL PROBES

20 GEROtherm® DUPLEX geothermal probes PE100-RC,  
da 40 × 3.7, length 210 m, PN16 S5 SDR11

20 GEROtherm® PUSH-FIX impact-resistant sleeves in structural  
steel, holder for double-U 40 mm

### GROUTING LINES

20 GEROtherm® grouting tubes PE-HD, da 25 × 2.3,  
length 212 m, S5 SDR11

### MANHOLES

### COLLECTORS & DISTRIBUTORS

