

HIP Heidelberg Innovation Park



Green data center cooling, cooling network supply, and emergency cooling

Project

The hip [Heidelberg Innovation Park] is planned to be home to young companies developing innovative products for medicine, industry, and environmental protection. Another central part of the plan is the Green Data Center. With the help of the sp.ICE ice storage system, the green data center will be powered 100 percent by electricity from renewable energy sources. The sp.ICE ice storage system is a stationary energy storage system that uses ice to store and release cooling energy.

Scope of delivery and services

- ❄ Planning and manufacture of two ice storage tanks. Installation and commissioning with hydraulic module, steel construction, and piping on site.

Technology

- ❄ 2 high-performance ice storage units, type sp.ICE INSITU
- ❄ 1 hydraulic module sp.ICE HC 33

Performance data

- ❄ Storage capacity: 20,000 kWh
- ❄ Charging time: 10 hours
- ❄ Charging capacity: 2,000 kW

Commissioning 2023

