

# Exhibition Hall and Ice Rink

More creative freedom for the architect and savings in conventional power costs were motivating reasons for selecting the enercret energy technology



Dornbirner Messe-  
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## enercret-Installation:

Multi-purpose building designs call for a particularly sophisticated energy system, especially where ice rinks are involved.

The energy concept is centred on the use of the enercret energy pile system.

Some 65 km of 20 mm-diameter HDPE piping is housed in 320 cast-in-situ concrete piles, each measuring 50 cm in diameter and 18 meters in length. The water circulating in these pipes serves as a transport medium for the thermal energy which is either absorbed from or dissipated into the ground. For example, up to 800 kW of excess heat from the ice-making equipment can be given off into the ground. Such peak outputs can also be harnessed for heating and cooling purposes of other exhibition buildings. The soil beneath the hall has been turned into a 100,000 m<sup>3</sup> storage facility for heating and cooling energy which regenerates itself over the course of the year.

**Pay-back time of the enercret installation: 3,75 years**



Brine circulating pumps