Högslätten 2023 Solar Thermal Park

Located in Härnösand-Sweden, Absolicon is building Sweden’s largest solar field connected to district heating using concentrating solar collectors, Högslätten 2023 Solar Thermal Park.

The installation showcase solar thermal technology for renewable heat supply. The concentrated sunlight from the solar thermal field provide the high temperature needed for district heating, feeding heat directly into the grid.

The plant, for large-scale solar district heating, is built with the patented Absolicon T160, a medium-sized parabolic concentrator for heat up to 160°C and steam up to 8 bar, also suitable for industrial use.

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<tr>
<th>CAPACITY</th>
<th>DELIVERY</th>
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<tr>
<td>1.5 MW</td>
<td>1,000,000 kWh Heat/Year</td>
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<th>APERTURE AREA</th>
<th>TEMPERATURE TO THE DISTRICT HEATING NETWORK</th>
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<td>3000 m²</td>
<td>73 - 120°C</td>
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Högslätten 2023 Solar Thermal Park is co-financed with the Swedish Energy Agency that has granted €800,000 for the project through its pilot and demonstration program.
THE PLANT

SOLAR DISTRICT HEATING FIELD
HÖGSLÄTTEN 2023 SOLAR THERMAL PARK
180 Absolicon T160 solar collectors

SOLAR CENTRAL
The solar central is the core of the plant. It converts the heat from the Absolicon solar collectors to different outputs to fit the specific demand.

DISTRICT HEATING SUPPLIER
HEMAB - Härnösand Energi & Miljö AB
Grid volume: 2155 m³
Total grid length: 121 km
26% recovered heat, 61% renewables, 12% peat, 1% fossil

HÄRNÖSAND, SWEDEN
Inhabitants 25000
2044 connection points to grid, 95% of multi-family houses and facilities and 50% of single-family houses.

Absolicon T160
Absolicon T160 Solar collector is the first of its kind to be certified by Solar Keymark and has the highest optical efficiency ever achieved for a small parabolic trough. Each world-class component of the patented technology contributes to the total record-high performance.

OPERATION TEMPERATURE
40-160°C

OPTICAL EFFICIENCY
>76%

OPERATION PRESSURE
8 Bar

PATENTS
6

Learn More About
HÖGSLÄTTEN 2023 SOLAR THERMAL PARK