

Lowering energy costs of heating - with Denmark's most advanced solar district heating plant



Project facts

Area



4,039m² CSP solar collectors



5,972m² flat panel collectors

Combi solar heating plant



6,082MWh / year



840 households



30% solar energy share

Cost savings



15% saving / household

Environmental savings



23,000 tons CO₂ / 20 years

Sustainable heating in Denmark

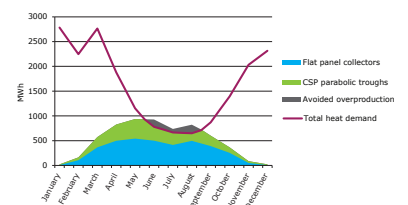
30% of the heat production in Taars (Denmark) is now provided by a globally-unique solar district heating plant developed and supplied by Aalborg CSP.

The system is the first of its kind in the world where flat panel collectors are combined with concentrated solar power parabolic troughs. The mix of the two technologies is a perfect match as both systems deliver exactly what they do best: the flat collectors preheat the water which is thereafter boosted by the CSP technology to achieve the final temperature of 90-95 °C.

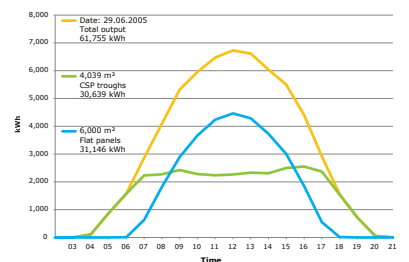
The CSP therefore acts like a turbo engine. Besides making Taars a greener city, the most advanced solar district heating system in Denmark also achieves 15% price reduction per household annually.

Aalborg CSP has been main contractor on the project as well as delivered the CSP solar collectors.

Estimated energy production



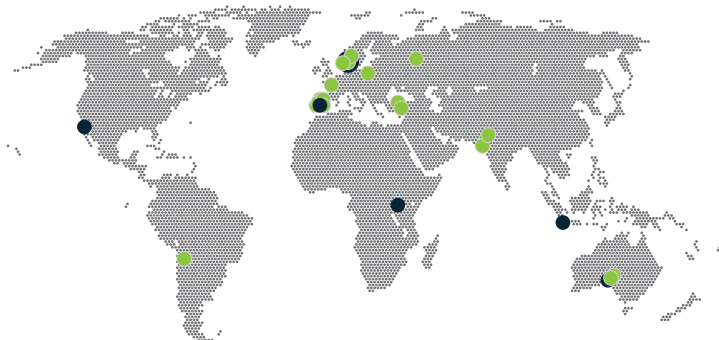
Solar energy output projection based on DMI DRY 2012 weather data



Energy production throughout the day

AALBORG CSP

- Changing Energy



Locations ●

Selected projects ●

CHANGING ENERGY

Aalborg CSP is leading developer and supplier of innovative renewable technologies with the definite purpose to change the way we produce energy today. Relying on extensive experience from some of the most efficient concentrated solar power (CSP) projects around the world, the company designs and delivers green technologies and integrated energy systems to lower cost of energy for industries and power plants worldwide.



**VALUE-ADDING
ENGINEERING DESIGN**



**TECHNOLOGY OF
TOMORROW**



**MAKING PROJECTS
HAPPEN**



**SECURED TO BE
DELIVERED**

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