

Harvesting energy
FROM THE SUN



AALBORG CSP
- Changing Energy



16.6MW_{th} CSP combined with biomass-ORC, Denmark



6.8MW_{th} CSP combined with flat panels, Denmark



10MW + 20MW solar tower receivers, Spain

ON-DEMAND RENEWABLE ENERGY with world-class CONCENTRATED SOLAR POWER SYSTEMS

21 projects delivered and put into operation

>1,700 MW_{th} solar installations globally



5MW_{th} solar tower receiver, Turkey



50MW SGS3 steam generation system, India



36.6MW_{th} Integrated Energy System based on CSP, Australia

WORLD-CLASS EXPERTISE IN THERMAL ENERGY

Aalborg CSP is a leading developer and supplier of innovative renewable technologies aiming to change the way energy is produced 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 the cost of energy for industries and power plants worldwide.

Our main business areas focus on delivering solutions that utilize our 30 years of thermal engineering experience. The history of Aalborg CSP is rooted in the development of traditional power boilers. Applying general boiler principles to the solar industry positioned us among globally leading steam generator suppliers within the CSP power plant segment wherein our steam generator technology (SGS3) has won multiple international awards.

COST-EFFICIENT GREEN ENERGY FOR INDUSTRIES

Utilizing the strong knowledge base from CSP power plant projects around the world, we gradually developed our renewable technology portfolio in order to supply the industrial market segment with cost-efficient green energy. Our first industrial-scale CSP parabolic trough plant was recognized as most innovative solution for district heating purposes in Denmark in 2012.

With more than 1,700MW_{th} solar installations globally, today Aalborg CSP harvests the sun in the most efficient way with a variety of solar-thermal technologies. These include CSP parabolic trough plants, solar tower plants, flat solar panels and different energy storage technologies to enable on-demand supply of heat, steam, power and desalinated fresh water.

ON-DEMAND RENEWABLE ENERGY FOR INDUSTRIES

As a result of continuous optimization studies and analysis of our industrial clients' dynamic energy needs we designed a globally-unique Integrated Energy System based on CSP - a novel configuration of renewable technologies that holistically satisfy multiple energy demands within one carbon-free system while lowering the cost of energy for our customers at the same time.

AalborgCSP places strong focus on R&D activities and partners with knowledge-based companies and institutions to create leading-edge technologies. As a result, we have developed the next generation of Thermal Energy Storage (TES) concepts together with our strategic partner (EnergyNest AS), allowing wind and solar energy to be stored at the lowest possible cost.

BUSINESS AREAS



CSP Power Plant Technologies

A wide-angle photograph of a large-scale Concentrated Solar Power (CSP) plant. The foreground is filled with rows of heliostats (mirrors) reflecting the sun. In the background, there is a complex of industrial buildings and structures, including a tall chimney, set against a hazy, mountainous landscape under a clear sky.



Solar District Heating

An aerial view of a solar district heating system. The image shows long, parallel rows of solar collectors (likely solar thermal collectors) installed in a field. In the distance, several wind turbines are visible against a clear sky. The ground is a mix of green grass and brown earth.



Integrated Energy Systems

Aerial view of an integrated energy system. The image shows a large, rectangular industrial building with a white roof, adjacent to a large, circular solar collector field. A tall, white tower structure is visible in the center of the solar field. The surrounding landscape is flat and arid, with mountains in the distance under a blue sky.



Industrial Solar Technologies

A close-up view of a large, curved solar collector structure. The structure is covered in a dense array of solar collectors, and the metal framework is visible. The background shows a clear blue sky and some green grass in the foreground.



Thermal Energy Storage

A close-up view of two large, cylindrical metal storage tanks. The tanks are made of polished metal and are situated outdoors. The sky is clear and blue.

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