

HEAT PUMP STATIONS

customized for the most value-adding result



AALBORG CSP
- Changing Energy

GREEN AND STABLE ENERGY PRODUCTION *with heat pump integration*

The heat pump's ability to recover energy and create synergies between energy systems and sectors makes the technology a key element in the green transition.

By integrating a heat pump station into the energy supply, district heating plants, utility companies, and companies in need of both process heating and cooling can achieve a greater efficiency and flexibility in their energy production.

we provide advice on the selection of e.g., heat pump type, energy source, refrigerant as well as integration based on the specific needs and requirements of the client, and we deliver the solution that creates the most value for the client in question.

Benefits

- Use of renewable energy sources
- Energy-saving technology
- Low maintenance costs
- Supports sector coupling and electrification
- Utilization of local waste energy
- Stable heat production
- Good integration possibilities
- Synergy with existing energy sources
- Energy efficient
- Increased flexibility
- Scalable technology
- CO₂-neutral



CUSTOMIZED SOLUTIONS

for the most value-adding result



Our heat pump solutions are customized to fit our clients' individual needs for the most value-adding result. We are not obliged to make use of one specific heat pump technology. Instead, we support our clients in finding the most suitable heat pump for the individual project.

Depending on the individual energy requirement, a heat pump can operate as an independent standalone unit or in conjunction with other existing energy sources. The technology is ideal in co-generation with solar heating and biomass plants as well as thermal energy storage systems. Valuable synergies can be obtained and utilized thereby optimizing both the efficiency and the flexibility of the energy system.

At Aalborg CSP, we have experience working with a wide range of energy sources for heat pump integration. Likewise, we assist you in investigating the potential of utilizing locally available energy sources, such as waste energy from wastewater treatment and biogas plants, or from industrial processes.

Energy sources

- Ambient air
- Wastewater
- Solar heat
- Liquid biomass
- Excess heat
- Geothermal

YOUR TURNKEY ENERGY SPECIALIST

from concept to reality

We take on the role as turnkey energy contractor and support our customers through all project stages, from identification of needs and conceptual design development to supervision, and commissioning.

As a turnkey energy specialist, we offer a wide range of engineering services. We offer support and guidance in connection with e.g., component selection, dimensioning, assembly, system setup and integration.

- One-stop-shop for accelerating the green transition
- Customized energy solutions
- Optimized and customized plant design
- Efficient integration with existing energy systems

- Preliminary design, FEED, and concept development
- Flexible collaboration, open-book and value engineering
- Service-friendly design and system set up
- Intelligent system integration

CHANGING ENERGY *worldwide*

Aalborg CSP A/S is a leading developer and supplier of innovative, renewable technologies with the vision Changing Energy aiming at changing the way energy is produced and stored today. We design and supply green solutions and integrated energy systems based on solar power, energy storage within power-to-X (PTXHEAT and PTXSALT), heat exchange and much more for industries and power plants worldwide.

Since 1988, Aalborg CSP has utilized its immense expertise within design and delivery of boilers, complex systems, renewable energy technologies and energy storage. Thereby, we have a deep understanding of individual energy needs, technology- and system integration as well as optimization with key competences such as performance modelling and system design.

Aalborg CSP A/S places strong focus on R&D activities and works both internally within the company and externally with Danish and international knowledge-based companies and institutions in continuously creating innovative and sustainable technologies.

Aalborg CSP offers a wide variety of renewable energy solutions including high- and low temperature energy storage, solar panels, heat pumps, boilers, integrated energy systems as well as customized Power-to-X solutions. We match individual energy needs with the right systems and technologies and integrates and combines solutions to achieve synergies between both sectors and technologies. We do so in order to create optimum value for our clients, while also optimizing the utilization of the world's energy sources aiming for a CO2 neutral future.

Headquartered in Aalborg (Denmark) and with a sales & service office in Spain, Aalborg CSP A/S has realized cost-effective green energy solutions worldwide.

AALBORG CSP
- Changing Energy

Aalborg CSP A/S | Hjulmagervej 55 | 9000 Aalborg | Denmark

Phone: +45 88 16 88 36 | E-mail: info@aalborgcsp.com | Web: www.aalborgcsp.com