World’s greenest hotel reaches COP 40 cooling efficiency

With electricity and water consumption respectively 60% and 30% lower than 4800 comparable properties in the InterContinental Hotel Group, the luxurious Crowne Plaza Copenhagen Towers hotel comes close to achieving carbon neutrality.

“I have to say that working with Danfoss on this project has been a tremendous success. We’ve had very few challenges. In fact, the system has delivered precisely what it was calculated in theory to do, which is really outstanding.”

Allan Agerholm, Chief Hospitality Officer, BC Hospitality Group A/S

COP = 40
The cooling power is up to 40 times the electricity consumed by the installation. Normally the COP for a building of this size would be 4 or 5.

Ground water cooling system:

90% energy saving in summer months, compared to conventional technology

60% energy saving in winter months, compared to conventional technology

The VLT® HVAC Drive delivers the essential capacity control enabling the ground-water-based Aquifer Thermal Energy Storage (ATES) system to deliver state-of-the-art savings in hotel heating and cooling.
A better tomorrow is driven by drives

Danfoss Drives is a world leader in variable speed control of electric motors. We offer you unparalleled competitive edge through quality, application-optimized products and a comprehensive range of product lifecycle services. You can rely on us to share your goals. Striving for the best possible performance in your applications is our focus. We achieve this by providing the innovative products and application know-how required to optimize efficiency, enhance usability, and reduce complexity.

From supplying individual drive components to planning and delivering complete drive systems; our experts are ready to support you all the way.

You will find it easy to do business with us. Online, and locally in more than 50 countries, our experts are never far away, reacting fast when you need them.

You gain the benefit of decades of experience, since 1968. Our low voltage and medium voltage AC drives are compatible with all major motor brands and technologies.

VACON® drives combine innovation and high durability for the sustainable industries of tomorrow.

For long lifetime, top performance, and full-throttle process throughput, equip your demanding process industries and marine applications with VACON® single or system drives.

- Marine and Offshore
- Oil and Gas
- Metals
- Mining and Minerals
- Pulp and Paper
- Energy
- Elevators and Escalators
- Chemical
- Other heavy-duty industries

VLT® drives play a key role in rapid urbanization through an uninterrupted cold chain, fresh food supply, building comfort, clean water and environmental protection.

Outmaneuvering other precision drives, they excel, with remarkable fit, functionality and diverse connectivity.

- Food and Beverage
- Water and Wastewater
- HVAC
- Refrigeration
- Material Handling
- Textile