

Customer Reference

Data center cooling with heat recovery



“Fortum Värme’s cooling service has allowed us to make an already efficient data center even better. The straightforward connection to Fortum Värme’s system gave us the opportunity to recycle energy that would otherwise have been rejected. As a bonus we doubled the redundancy of our cooling system. With the favorable economic and environmental impact, we are now looking into deploying heat recovery in our other data centers.”

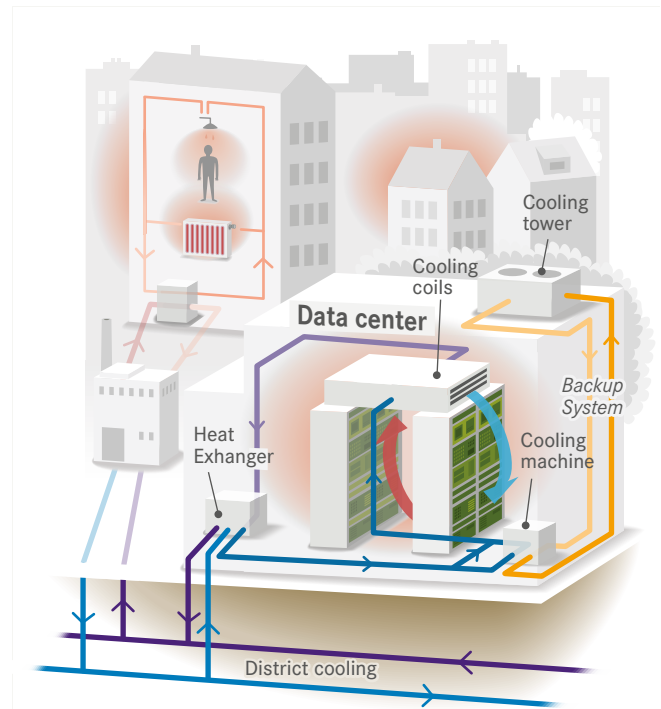
Jan Lundin
Head of IT Facility Services
H&M

The global fashion industry is not only about garments shows and collections. As trend cycles become shorter and e-commerce more important, the industry has become heavily dependent on complex and mission critical logistics and data management. A leader in this industry, H&M is continuously looking for ways to increase efficiency and reduce its environmental footprint.

Accordingly, in its data centers the company seeks to reduce cost and energy demand by e.g. deploying direct current to the servers, having LED lights and allowing for higher temperatures in the data center. In line with its strategy to moving towards 100% circularity, H&M introduced Fortum Värme’s data center cooling service with heat recovery in 2013.

Initially, the data center was cooled exclusively with an on-site cooling system with chilled water and cooling towers providing free cooling during the majority of hours in a typical year in Stockholm.

Through the contract with Fortum Värme, the existing data center is being cooled with a return pipe in the district cooling system, with Fortum Värme purchasing the excess heat. In addition, the cooling provided by Fortum Värme can be used as a backup when the already existing system is used, and vice versa.



DATA CENTER

Stockholm

COOLING CAPACITY

300 kW

COOLING WATER TEMPERATURE

6 °C

COOLING WITH HEAT RECOVERY

4 300 h

SUSTAINABILITY - MODERN APPARTMENTS HEATED

450

POWER GRID OPERATOR

Ellevio

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For more information about Fortum Värme’s Data Center Cooling Solutions, please contact info@stockholmdataparks.com

