

## Swedish TSO Svenska kraftnät and energy provider Stockholm Exergi take heat recovery to the power substation

**For the first time in Sweden, a national substation will be built with an integrated cooling and heat recovery system. When in full operation, the heat recovery from the substation will be able to heat 2 200 modern residential apartments.**

The road to a sustainable future requires an extensive build-out of the electrical grid in all countries. The grid is not only the power lines, but also all the interconnecting points where the major lines are transformed to local distribution. In the light of the general electrification of society, Svenska kraftnät has an ambitious plan to build out Sweden's grid. One such project is Substation Skanstull, planned to go on-line in 2023.

The new station at Skanstull can provide up to 1 000 MW of power. While the power station has a limited heat loss, Stockholm Exergi expects to recover close to 8 000 MWh annually and reuse it in its district heating network to keep the Stockholmers warm.



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"For Svenska kraftnät, this project marks an important milestone. Throughout the world, this energy is currently wasted. We hope to see more of this type of projects, allowing our grid to deliver precious renewable energy with even higher efficiency", says Peter Berg, project manager at Svenska kraftnät.

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# STOCKHOLM DATA PARKS



## **For more information**

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## **About heat recovery and Stockholm Data Parks**

Stockholm Exergi has been promoting heat recovery since 1979, with IBM's data center as the first supplier of excess heat. Starting 2012, the work was intensified and a heat recovery offering named Open District Heating ("Öppen Fjärrvärme") was launched. In 2017, it was decided, in cooperation with the City of Stockholm, Invest Stockholm, grid provider Ellevio and dark fiber operator Stokab, to launch Stockholm Data Parks to encourage major data center operators to locate in Stockholm with a view to performing heat recovery on a large scale. Examples of data center operators already supplying excess heat to Stockholm Exergi are Interxion, Ericsson and Bahnhof.

## **About Svenska kraftnät**

Svenska kraftnät is the Swedish Transmission System Operator, an authority that is operated in the form of a state-owned enterprise. Svenska kraftnät is responsible for ensuring that Sweden has a safe, environmentally sound and cost-effective transmission system for electricity – today and in the future. This is achieved in the short term by monitoring the electrical system around the clock, and in the long term by building new power lines to meet tomorrow's electricity needs.

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