

# HEATWISE PRESS RELEASE

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## RISE JOINS HEATWISE AS THE FIFTH PILOT SITE, ADVANCING ENERGY-AWARE DATA CENTERS IN THE NORDICS



*FRISE ICE Data Center and Test Beds*

Since October 2025, the RISE ICE Test and Demo Facility in Luleå, Sweden, has been officially onboarded as the fifth pilot site of the HEATWISE project, marking another milestone in Europe's mission to revolutionise sustainable digital infrastructure.

Located within a commercial building that houses various tenants and data centre operations, the facility operates in an Arctic climate with an average annual temperature of just 3°C, ensuring a nearly year-round heating demand. The full building has an annual heating demand of approximately 1.37 GWh, with the HEATWISE pilot's 20 kW IT load contributing around 7% of this total.



*ZutaCore's liquid cooling technology*

The pilot site spans 983 m<sup>2</sup> (8% of the building's total area) and serves as a real-world testbed for hybrid cooling, waste heat reuse, and advanced energy management. Its modular micro data centre hosts 20 kW of blade servers and thermal test vehicles (TTVs), integrated with ZutaCore's Heat Recovery Unit (HRU) using two-phase direct liquid cooling





*The micro data center that will be used for the pilot in the RISE ICE Test and Demo facility*

The pilot demonstrates how data centers can evolve from energy consumers into active energy providers, transforming their thermal byproduct into a valuable source of heating for buildings and local networks. This shift not only improves overall system efficiency but also supports building decarbonization and district-level energy flexibility.

At the heart of the pilot lies a modular micro data centre equipped with advanced two-phase liquid cooling from ZutaCore, heat recovery units, and a network of sensors capturing real-time data on power, temperature, and airflow. These technologies enable precise control, seasonal adaptability, and deep insights into how data centres can operate as zero-waste energy hubs

By bridging IT infrastructure with building energy systems, HEATWISE and RISE are pioneering a new generation of energy-aware data centres, proving that efficiency, innovation, and sustainability can coexist at the very core of Europe's digital ecosystem.

This pilot is instrumental in demonstrating scalable, real-world integration of IT and building infrastructure, targeting zero-waste energy systems and enabling advanced thermal management in cold climate data centers

### Looking Ahead

Set to run until December 2026, HEATWISE is committed to leading the way in energy optimization and setting a new standard for environmental efficiency in the digital and built environment.

For more information on the project's progress, innovations, and outcomes, visit the official website at <https://heatwise.eu/>

For further details, media inquiries, and engagement opportunities, please contact us at [info@heatwise.com](mailto:info@heatwise.com)