



# Zero Emission Data Centres

Tuesday 12 March | 12:30 - 14:00  
Meeting Hall

Data centres are the heart of the Internet, and the Nordic countries, Finland in particular, are the ideal location for data centres due to abundant green energy and stability. The new energy efficiency directive demands more sustainable data centres, which can be reached by developing data centre technologies and tight sector coupling with heat and power networks.

Finland's Data centres already consume more than 3 TWh of electricity, but less than 1% of the generated heat is utilized. Therefore, the Vaasa University Consortium has established an open data centre research infrastructure ([WSTAR](#)) for developing the zero emission data centre concept and invites participants from data centres, heat, and power sectors to contribute to the research and development.

# How the data centres should be integrated to the energy system to reduce their emissions and increase efficiency?

Opening and the introduction of Vaasa Zero Emission data center research infrasturcture (WSTAR)

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Associate Professor



[Jerker Björkqvist](#)

Associate Professor, Senior University Lecturer

Data center business in the Nordics

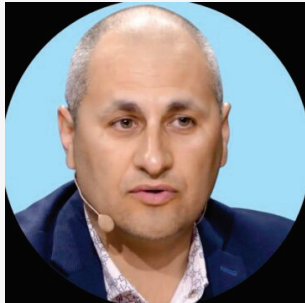


[Pekka Järveläinen](#)

Sales Director for Finland / atNorth

## Cooling and heat reuse

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[David Gyulnazaryan](#)

Independent Consultant / Project Lead, OCP /  
Impleon

## Can generative AI run on thin air?

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[Tor Björn Minde](#)

Head of Unit, RISE ICE

## Data center power supply and grid connection

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[Olli-Pekka Aalto](#)

Head of Global Energy & Power, Danfoss Drives

## Organizers

University of Vaasa, Åbo Akademi, Vaasa University of Applied Sciences and Novia.



**Marja-Riitta Vest**

Director, RDI and Business  
Services, Vaasa University of  
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