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WSTAR-Wasa Zero Emission Data Center

A zero-emission data center is designed to operate without producing carbon emissions, contributing to the reduction of the environmental impact of data processing and storage. Achieving zero emissions involves a combination of renewable energy usage, energy-efficient technologies, carbon neutralizing, and innovative cooling solutions. Key components of a zero-emission data center are renewable energy, energy efficiency, carbon counterbalancing, innovative design and geographical location. This article presents WSTAR project, which aims at building a research infrastructure zero-emission data center built in Vaasa, Finland. The project has been funded by the European Union – NextGenerationEU instrument and the Academy of Finland under grant number No. 353562 (353563, 353590, 353606). 11 - 14 September, 2024 Tallinn, Estonia AmiES 2024