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Partner of Stora Enso

ByggPartner

EcoDataCenter Falun, Sweden

EcoDataCenter is an example of using a mass timber Sylva™ kit of parts to provide high security class and high demands on fire safety at a large data warehouse.

The EcoDataCenter in Falun, Sweden, is one of Sweden's largest data centres. The project owned by Areim and designed by Nordisk Kombination Arkitekter AB was designed to address the growing global demand for AI and cloud systems. To achieve that, the centre is powered solely by renewable energy sources such as solar, wind, and hydro, utilising nearby renewable energy ecosystems, in addition to the use of low-carbon materials in the construction.

Since 2017, ByggPartner, Stora Enso and EcoDataCenter worked closely together, resulting in solid wood data centres (A-D) with a total area of approximately 35,000 square metres.

Now EcoDataCenter 1 campus is extending again with Halls E and F. This project is the result of a long-term collaboration in technology and wood construction.

The campus spans a site of 80,000 square metres and includes six buildings, each with 3,400 square metres of white space and up to 8 MW of power and cooling capacity. Its modular design allows for scalable growth, making it an ideal choice for businesses with expanding cloud and AI needs.

The first four builders were completed in two stages between 2018 and 2024. The project was delivered by our partners, ByggPartner leveraging their expertise to achieve a pioneering solution in the data storage industry. The remaining two building E and F are still currently under construction.

Construction phase one

The first phase of the EcoDataCenter's construction began in 2018. This initial stage focused on establishing the core infrastructure necessary for a high-security. The use of cross-laminated timber (CLT) was a key feature of this phase, employing 353 cubic metres of Sylva™ CLT Floors, Roofs, and Walls. The first building was designed to house the essential technical installations required, ensuring that the facility could operate with the highest security standards while lowering the overall carbon footprint.

Phase two

In 2019, the second phase of the EcoDataCenter's construction was completed. This phase involved expanding the facility to accommodate additional cloud and AI needs. The design continued to make excellent use of a Sylva kit of parts, this time.

Phase three

The remaining two centres E and F are currently under construction.

Awards

2024 Urban Land Institute (ULI) Awards for Excellence winner (category other)

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ULI awards are highly prestigious in the real estate and urban development sectors. Established in 1979, these awards recognize outstanding development projects and programs that exemplify the highest standards in the industry. The jury praised the project for being indicative of the future of real estate yet is of an asset class that sits outside the mainstream and is pushing the boundaries. They praised its use of energy efficiency and of mass timber to reduce embedded carbon.

Would you like to view more data /software centres or industrial units built with Sylva?

Wood City Supercell

Baytree Nuneaton

The Plus / Vestre



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2024 Urban Land Institute - Europe Awards for Excellence Winner (category other)



Photo credit: EcoDataCentre/©Nordisk Kombination Arkitekter AB

General

Delivery year

Under Construction

Building type

Industrial

Area (m²)

6,000

Storeys

1

Units

2

Products

Products and Services

Sylva™ CLT Floors and Roofs, Sylva™ CLT Walls, Sylva CLT Rib Roofs, Sylva360™

Product quality

NVI

Product volume (m³)

14,879

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Team

Partner of Stora Enso

ByggPartner

Developer

EcoDataCenter
Vertiv

Architect

Nordisk Kombination Arkitekter

Structural Engineer

Limträteknik

Main contractor

ByggPartner

Specialist Timber Subcontractor

ByggPartner