

Martin S. Lundby: Remember To Use The Power Twice, Please

● **Energy First Real Estate** | Kranløftet · 10th floor | 11:30–11:40 | 

Part of Gridlocked? Put Demand Where It Works



Martin S. Lundby
CEO, Hafslund Celsio

Use electricity twice: data centre heat can warm Oslo's buildings

Martin S. Lundby, CEO of Hafslund Celsio, argued that the same electricity can be used twice: first in a data centre for digital services, then as district heating for the city. Hafslund Celsio's value chain runs from waste and carbon capture to heat, cooling and power. Of its 2.0 TWh of energy sources, 65% is local surplus heat from waste incineration, sewage and data centres, and 0.0% is fossil oil. Its 16 energy centres and 700 km of pipes serve around 3 500 houses, 1 200 housing associations and 1 300 commercial buildings, saving about NOK 20 billion in grid and power investment. Lundby showed that Norwegian media talk mostly about wind power and data centres, while surplus heat gets little attention. Ulven is already heated by a data centre, and Skygard could heat 12 000 homes.

KEY TAKEAWAYS

- Electricity in a data centre becomes digital services first, then heat for Oslo's buildings.
- 65% of Hafslund Celsio's 2.0 TWh comes from local surplus heat; fossil oil is 0.0%.
- Norwegian media mentioned wind power 24 000 times in a year and surplus heat only 196.
- Lundby said data centres must be built so their surplus heat can be reused.
- A water store of over 8 million litres at Økern and Ulven can shift demand away from peak grid hours.

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