
This Climate Week, join BE-Ex, the Swedish Energy Agency, and NYSERDA for a timely discussion of thermal energy networks, as part of our International Pathways series. These networks present an innovative solution to dramatic carbon reduction through sharing heat, including repurposing wasted energy, over an optimized network.

Opening Remarks:
Richard Yancey, Exec. Director, Building Energy Exchange
Veronica Eade, Director of Built Environment, Swedish Energy Agency
Ke Wei, Senior Advisor, NYSERDA

Moderator:
Molly Dee-Ramasamy, Director, Deep Carbon Reduction Group, JB&B

Panelists:
Erik Rylander, Head of Carbon Dioxide Removals, Stockholm Exergi
Johan Börje, Head of Voluntary Carbon Market, Stockholm Exergi
JP Flaherty, Managing Director, Global Head of Sustainability, Tishman Speyer
Travis Smith, Principal, Smith Engineering

31 Chambers Street
New York, NY

September 20, 2023
9:00 - 10:30 am

1.5 LU
Stockholm’s District Heating Network - a platform for innovation

Erik Rylander, Head of Carbon Dioxide Removal


NYC Sept 20, 2023
Stockholm Exergi

- District heating and cooling to 12,000 buildings and power to the electrical grid, totaling 10 TWh p.a.
- 50% owned by City of Stockholm
- €700 m turn-over
- Last coal-fired plant phased out in 2020; now 99 per cent of production from recovered, reused and renewable sources
- Next step: Become EU's largest supplier of CO₂ removals with permanent storage
Stockholm Exergi has two owners (each with a 50% share) and Ankhiale, which is owned by the following companies:
Four business areas

- Heat / Cool
- Power (energy + capacity)
- Waste Treatment
- Carbon Dioxide Removal
Our circular flows
Smart buildings enable smart cities

**Indoor temperature**
Complete control of indoor temperatures throughout a property

**Heat optimisation**
Allow our smart heat optimisation systems to manage heating

**Monitoring**
With our monitoring systems, you can be sure that heating systems are working correctly

**Solar panels**
Generate your own electricity with solar panels on the roofs of properties

**Charging points**
Electric car charging for the infrastructure of the future

**Power optimisation and batteries**
Optimise property power output and benefit fully from batteries

**Intelligy**
Our digital platform where we gather all our products and provide customers with a user-friendly interface
We buy excess heat

• With the Open District Heating concept, we make use of heat that would otherwise go to waste.
• We pay market prices, i.e. we put our own production under cost competition.
• Process waste heat, data centres, supermarkets, etc.
• Vision to source 10% of Stockholm’s heating needs from reusing 3rd party waste energy.
• Stockholm Data Parks – to scale Open District Heating.
• In 2022, we recovered enough heat for approximately 15,000 modern flats.
BECCS w. geological storage (Negative Emissions) remove carbon dioxide from the atmosphere permanently
Starting 2027, BECCS KVV8 will remove **800,000 tonnes** of biogenic carbon dioxide per year from the atmosphere, more than Stockholm's annual fossil road traffic emissions.
Beccs Stockholm
NEGATIVE EMISSIONS BY STOCKHOLM EXERGI
Proposed Infrastructure
Moderator:
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thank you.