



BECCS Stockholm

Johan Börje, Head of VCM



Co-funded by the European Union
Emissions Trading System
Innovation Fund



Swedish
Energy Agency

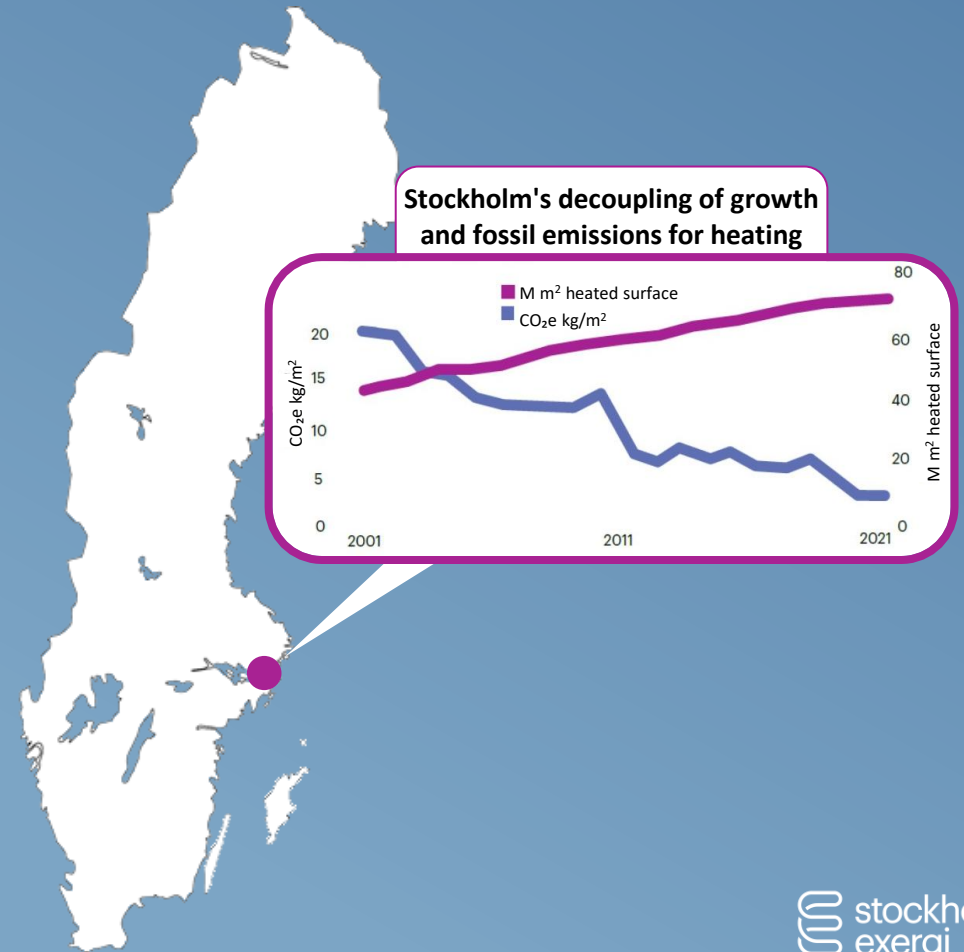
Beccs Stockholm

NEGATIVE EMISSIONS BY STOCKHOLM EXERGI

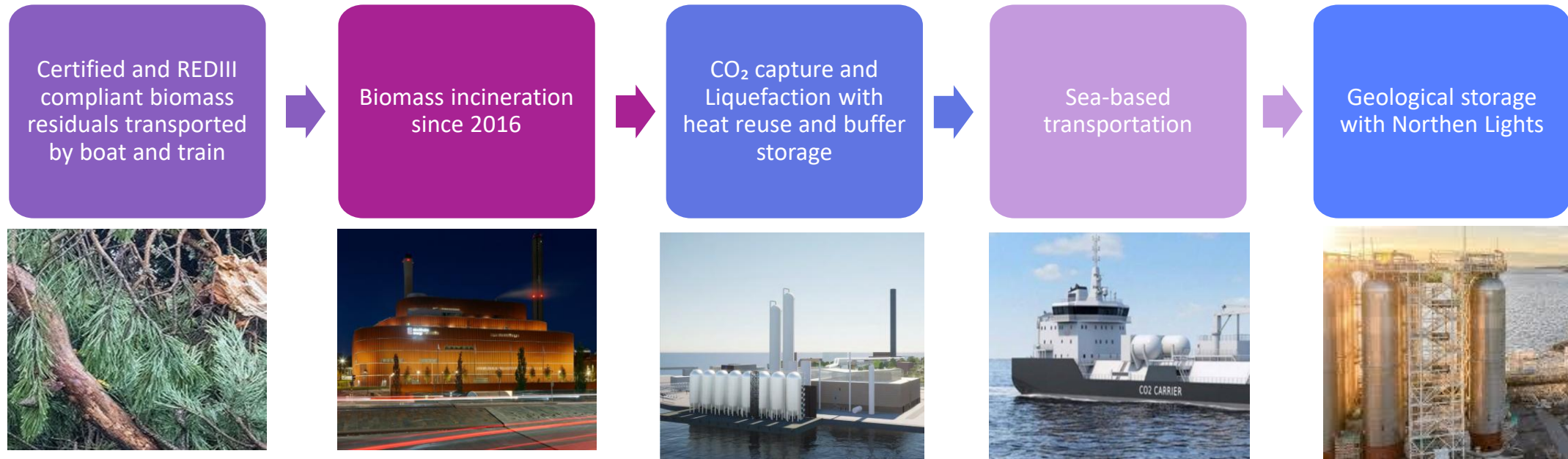
Stockholm Exergi



- A 50/50 ownership structure between City of Stockholm and Ankhiale
- District heating and cooling to 12 000 buildings and power to the electrical grid, totaling 10 TWh p.a.
- €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



The BECCS Stockholm value chain



Methodology for net quantification of permanent removals

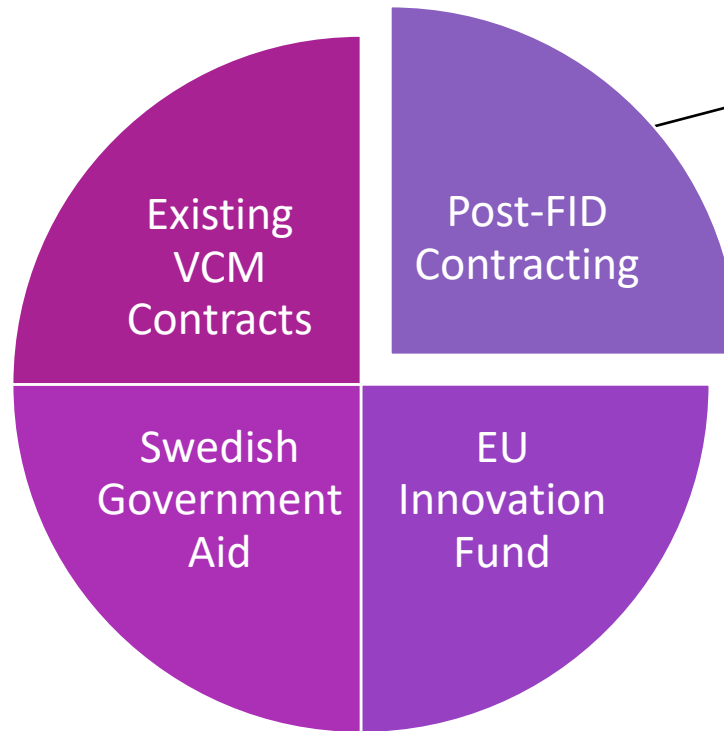
BECCS Stockholm in short

Key Benefits

- Removal of 800 000 tonnes CO₂ per year
- Heat recovery – no energy loss
- Sustainable biomass. No additional outtake
- Proven, friendly capture solvent
- High concentration of CO₂, around 19%.
- 90-95% capture
- Ownership of steam, electricity and harbor
- No requirement for fresh water



Final Investment Decision achieved thanks to stacking of funds. Now construction and contracting for success



- ~175,000 units currently open (yearly)
- Deliveries start 2030, 2028/2029 fully booked

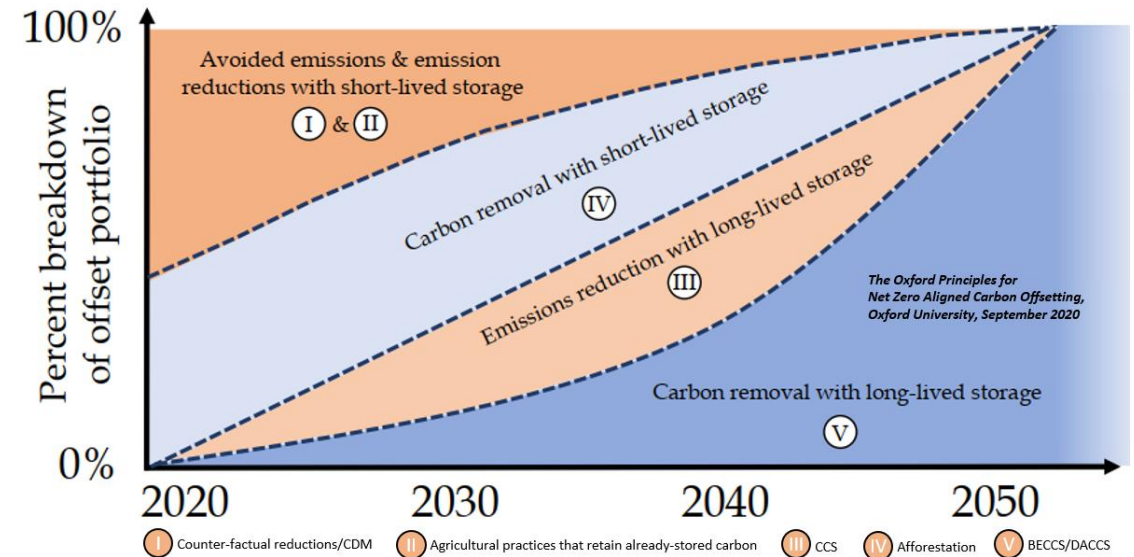


Net-zero is approaching

Why CDR already today?

- Counterbalance your current impact on warming
- Join climate leaders, gain brand advantage
- Secure SBTi and net-zero volumes for 2030/35/40
- Help your customers reduce Scope 3 up-stream emissions
- Integration with ETS almost a foregone conclusion
- Supply shortage coming up: leverage the business opportunity

Oxford Principles for Carbon Offsetting



Key policy issues impacting evolution of removals industry

- Claims
 - Carbon Removal Certification Framework
 - Compliance and 2040 Targets
 - SBTi NZ Standard 2.0 and GHGP Standard for removals
-
- Trans-European Network for Transport and Storage
 - Protecting carbon stocks
-
- On the horizon: implication of net negative

*“The long investment cycles in industry must also be taken into account....**Decisions made today** to invest in CO₂ capture and CO₂ transport infrastructure **will thus determine** the capacities for **CO₂ removal** in the 2040s – and thus **whether the net zero target is within reach.**”*

SWP-Aktuell

NO. 10 MARCH 2025

A "Short-Term Strategy for Negative Emissions": Policy Options for the Ramp-Up of CO₂ Removals

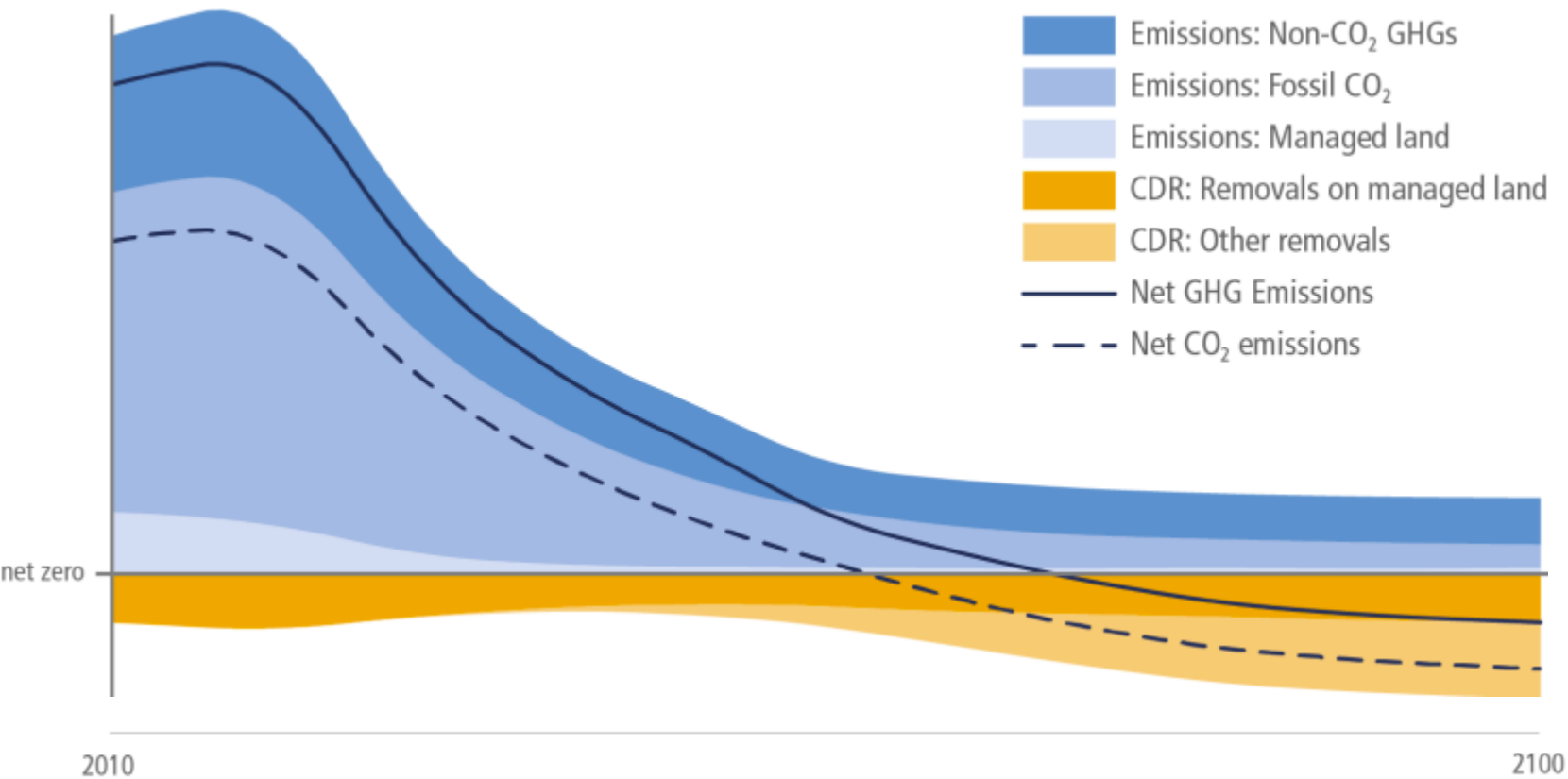
Felix Schenuit / Domenik Treß

German Institute for International and Security Affairs (SWP)

SWP

Back-up

Why do we need carbon removals?



Source: IPCC Sixth Assessment Report

