

CLEEN

Cluster for Energy and Environment



ccsp

Carbon Capture and Storage Program

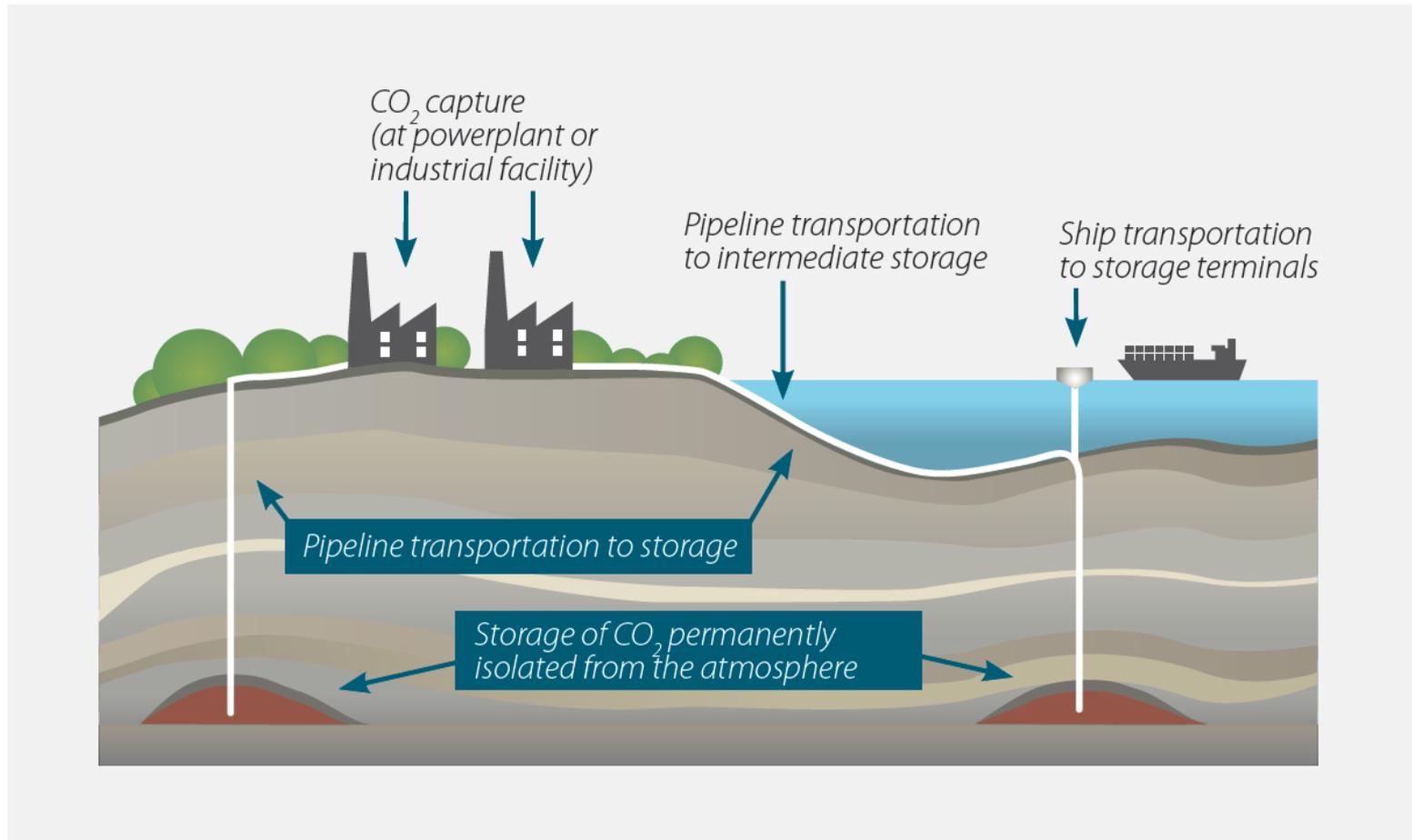
Insight to Carbon Capture and Storage Program

Antti Arasto

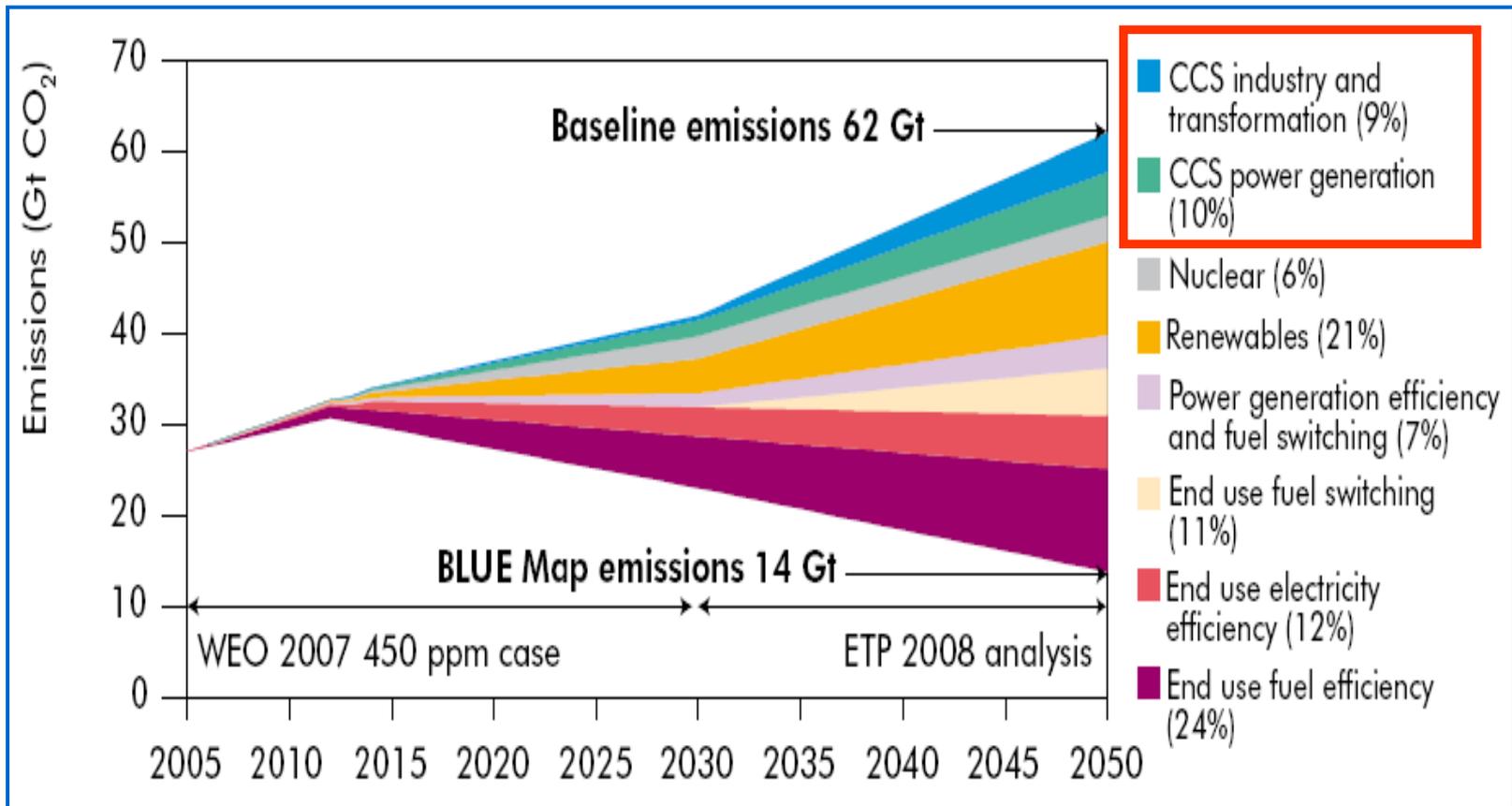
VTT - Technical Research Centre of Finland

13.10.2011

Carbon capture and storage

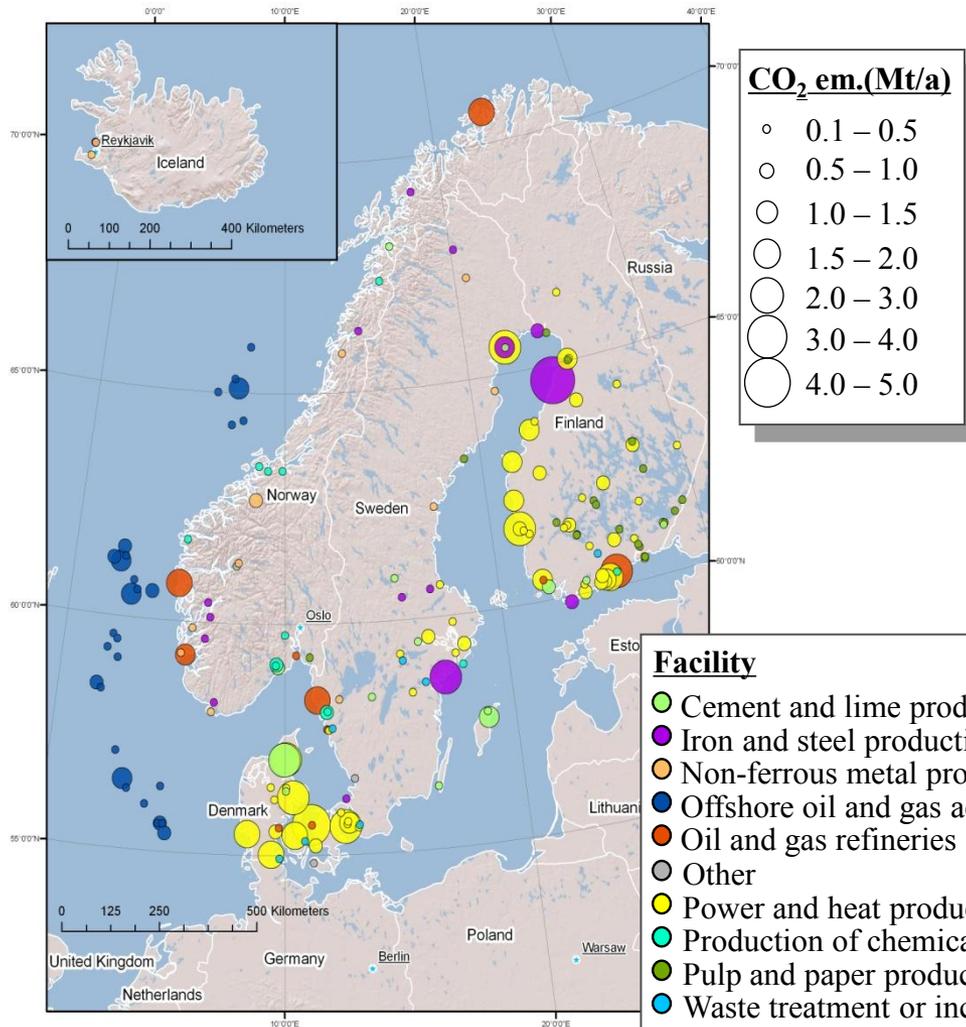


Backgrounds - A World-Wide Technological Change Needed

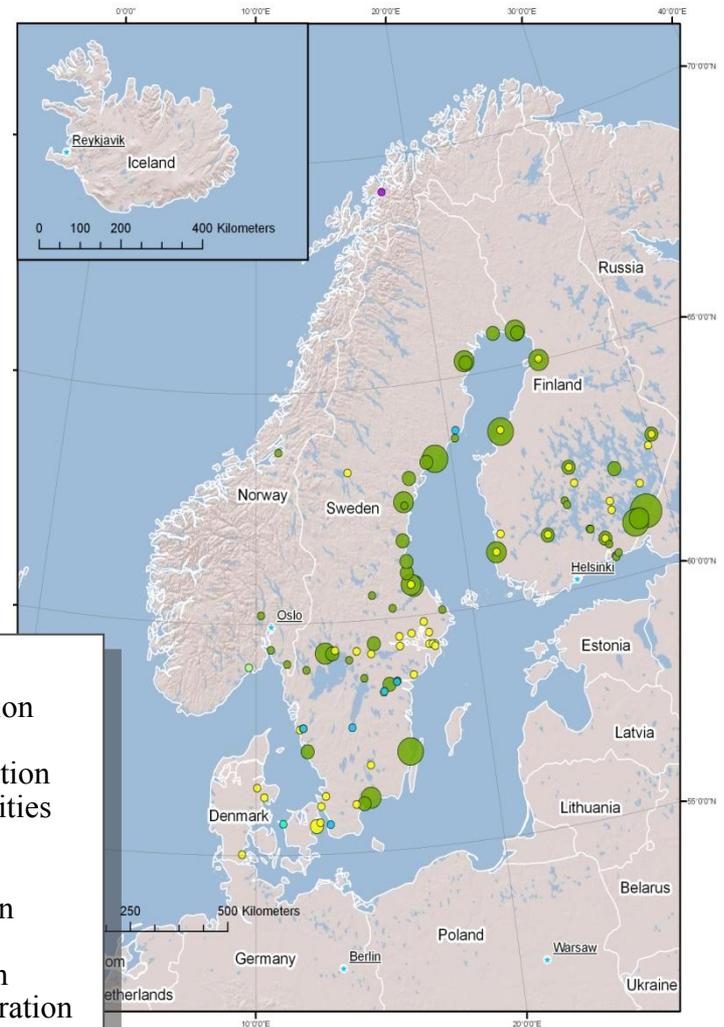


CO2 Emissions in Nordic countries

Fossil and inorganic CO₂ emissions



Biogenic CO₂ emissions



CCSP – Carbon Capture and Storage Program

The key-technology areas:

- CCS in CHP systems
- CCS technology related to multi-fuel and bio-CCS
- CCS solutions for oil and gas and for iron and steel industry
- Acceptability of CCS

Long term breakthroughs

- CLC (Chemical Looping Combustion)
- Mineral carbonation

Pilot SHOK programme for international collaboration

The overall objective of the Program is to develop CCS related technologies and concepts that would lead to essential pilots and demonstrations starting by the end of the Program i.e. ca. 2014-2015 targeting then to commercial concepts available from ca. 2020 onwards

16 INDUSTRIAL PARTNERS
9 RESEARCH PARTNERS
5 YEARS ~20M€
FIRST FUNDING PERIOD
1.1.2011 – 29.2.2012
3,2M€
PROGRAM MANAGER:
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THANK YOU FOR YOUR ATTENTION

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Program Manager

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