

Aker Carbon Capture Capital Markets Day

September 9, 2021



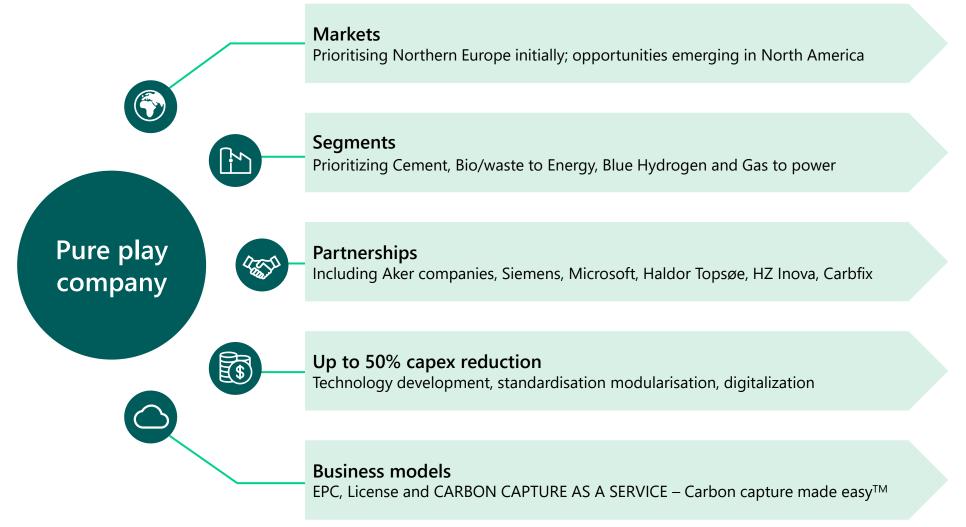
Agenda

Welcome and introduction	David Phillips, Aker Carbon Capture
Part 1: Market and Momentum	
Strategy Outline	Valborg Lundegaard, Aker Carbon Capture
Carbon Capture and Storage – A growth industry	Jeff Erikson, Global CCS Institute
Part 2: Who we are - Technology & Partnerships	
Technology and Innovation	Jim Stian Olsen, Aker Carbon Capture
Guest interview	Karim Amin, Siemens Energy
Research and development	Jim Stian Olsen, Aker Carbon Capture
Guest interview	Joanna Mainguy, Microsoft
Part 3: Business model innovation	
Carbon Capture as a Service: Business model	Jon Christopher Knudsen, Aker Carbon Capture
Guest interview	Helene Mørne, Carbonor
Carbon Capture as a Service: Market outlook	Jon Christopher Knudsen, Aker Carbon Capture
Video guest interview	Edda Aradóttir, Carbfix
Carbon Capture as a Service: Finance	Egil Fagerland , Aker Carbon Capture
Q&A	



Part 1: Market and Momentum

Strategy







CARBON CAPTURE AND STORAGE – A GROWTH INDUSTRY

AKER CARBON CAPTURE SOLUTIONS CAPITAL MARKETS DAY SEPTEMBER 9, 2021

JEFF ERIKSON, GENERAL MANAGER GLOBAL CCS INSTITUTE





THE GLOBAL CCS INSTITUTE



Backed by governments, businesses and NGOs



Mission: To accelerate deployment of CCS

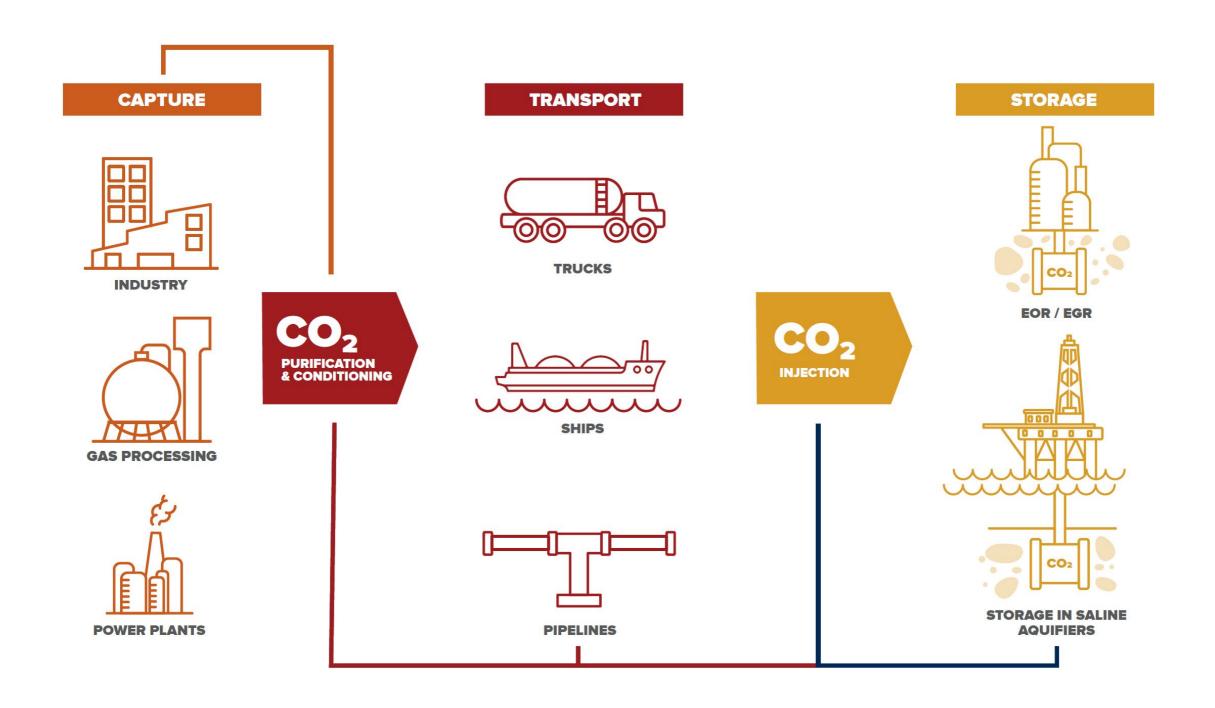
113 WEMBERS 7 locations







CARBON CAPTURE AND STORAGE – FUNDAMENTALS





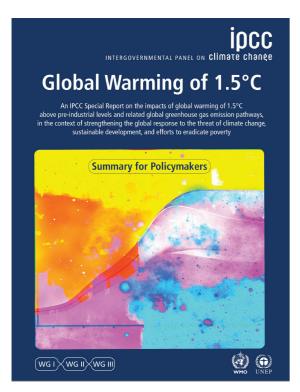
HEADLINES

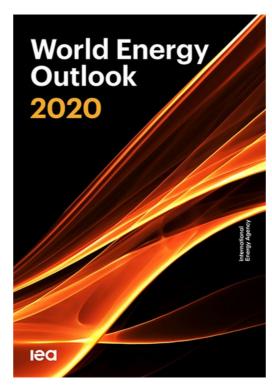
- Tremendous growth now and projected
- Climate change and net-zero emissions commitments driving interest and investment
- Policy and funding support building notably UK, Norway, Netherlands, EU, US, Canada, China, Japan
- Key developments
 - Enhanced tax credit in the US (45Q)
 - Langskip, Porthos, UK Clusters
 - China's 30/60 goals
 - Networks
 - Hydrogen

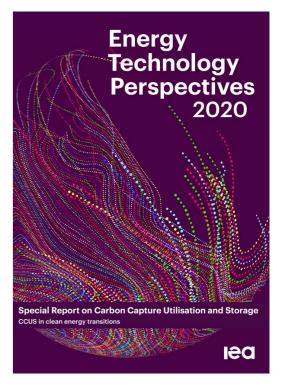


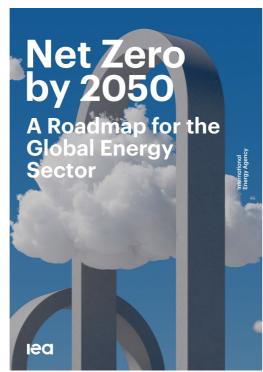


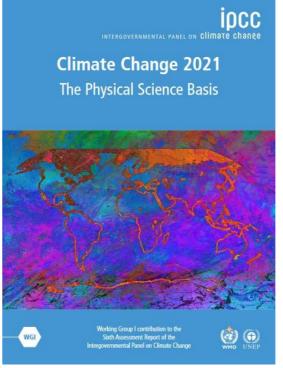
CARBON CAPTURE PLAYS A KEY ROLE IN ACHIEVING CLIMATE GOALS





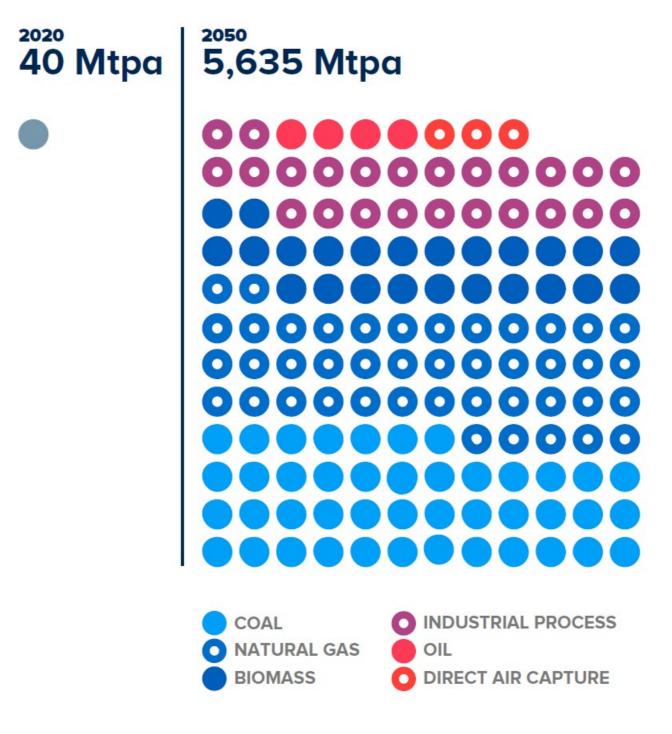






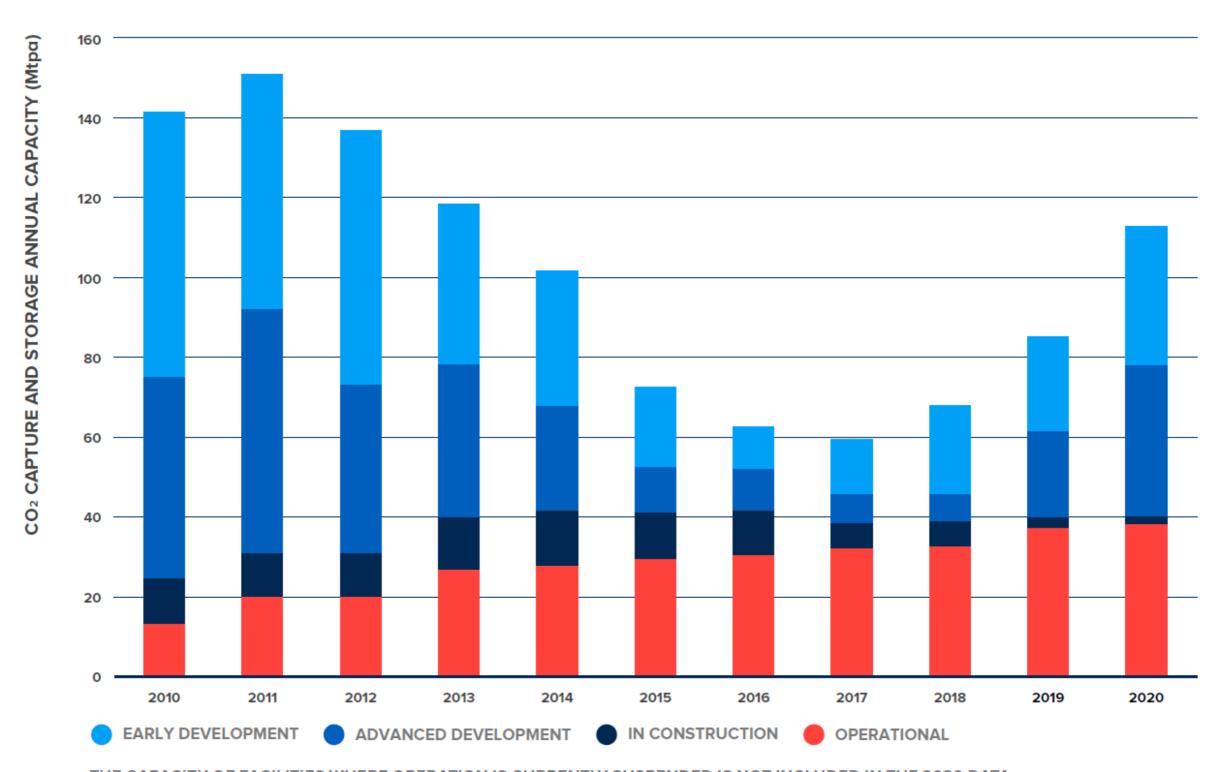


MASSIVE SCALE-UP REQUIRED





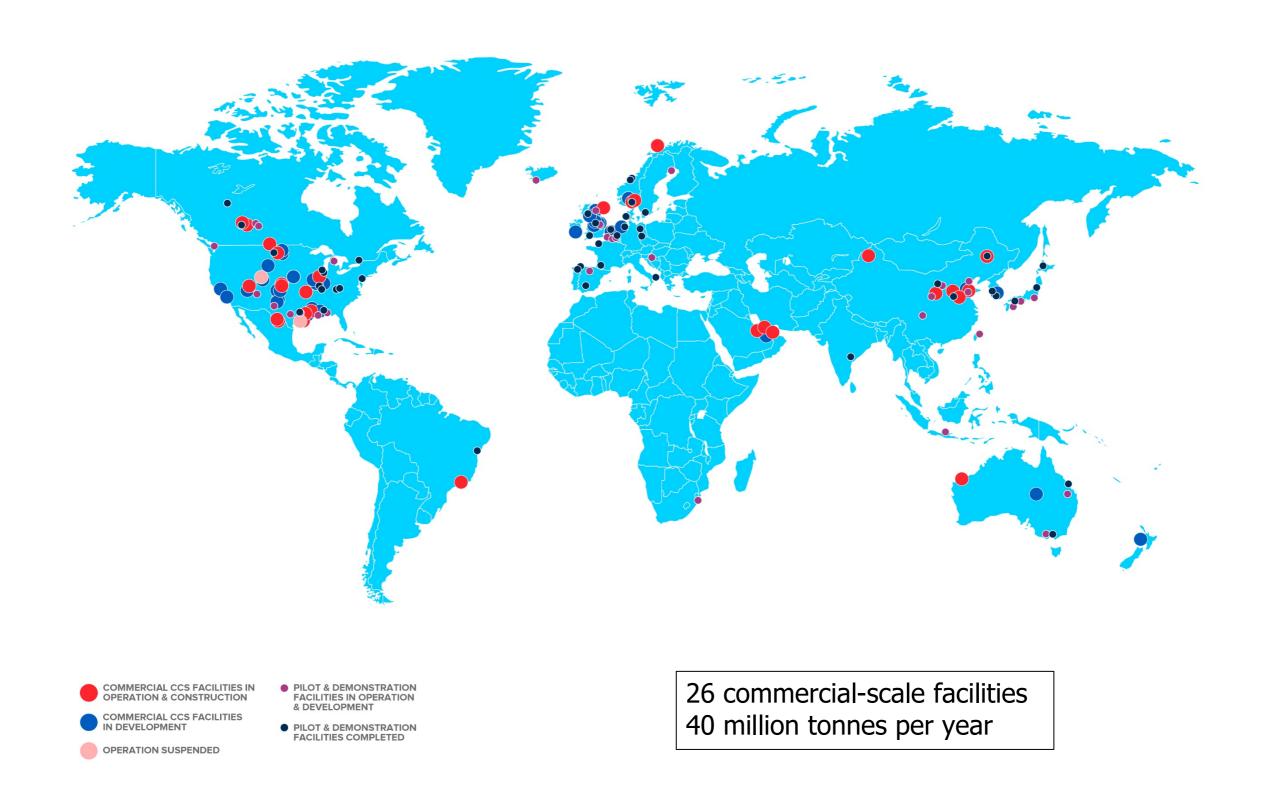
EARLY DAYS OF A STRONG GROWTH TRAJECTORY



THE CAPACITY OF FACILITIES WHERE OPERATION IS CURRENTLY SUSPENDED IS NOT INCLUDED IN THE 2020 DATA.

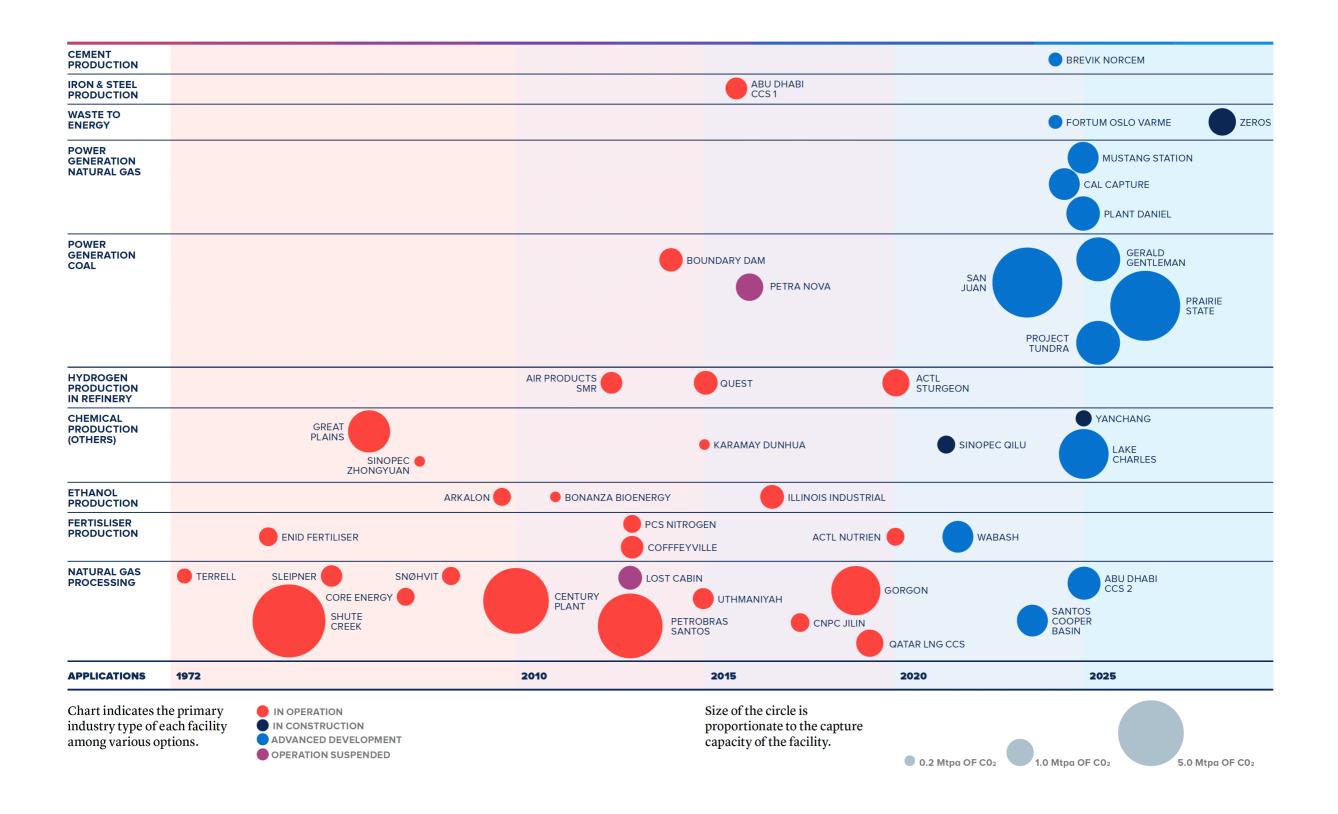


CARBON CAPTURE FACILITIES IN OPERATION AND DEVELOPMENT



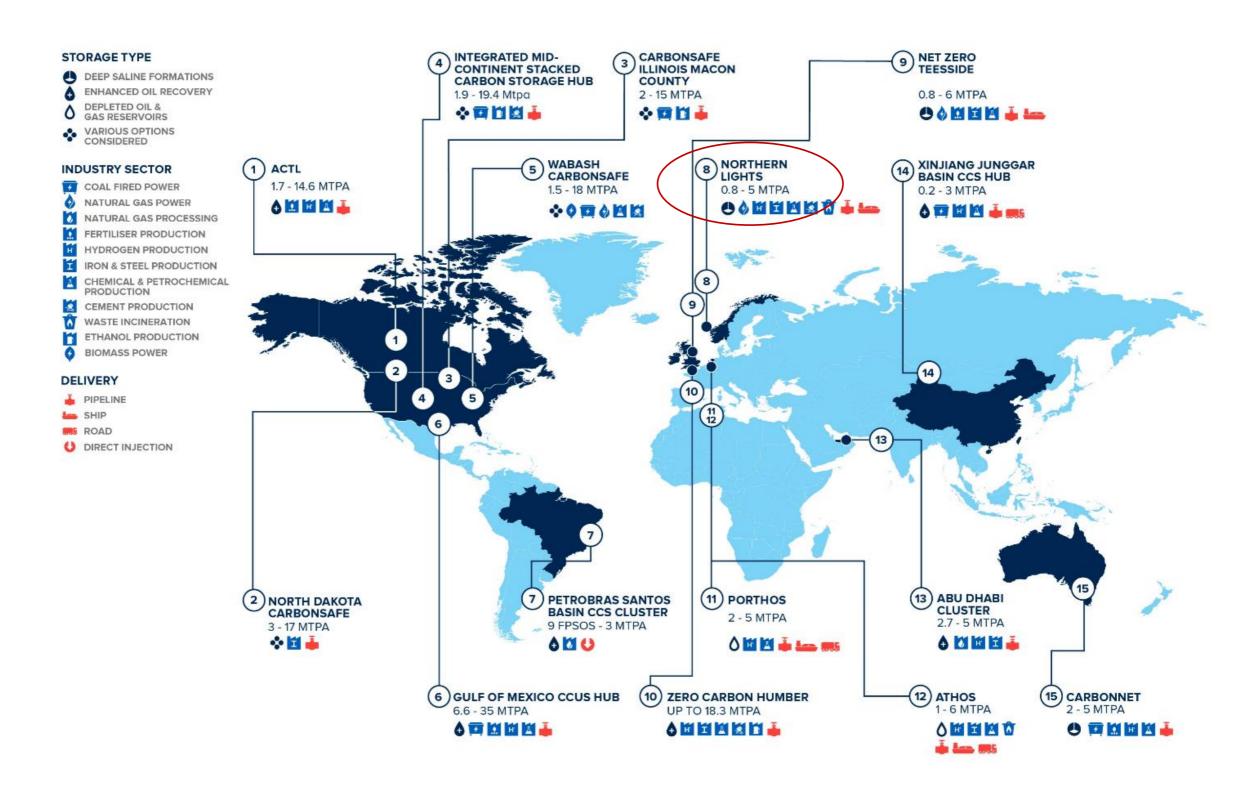


CARBON CAPTURE FACILITIES IN OPERATION AND DEVELOPMENT

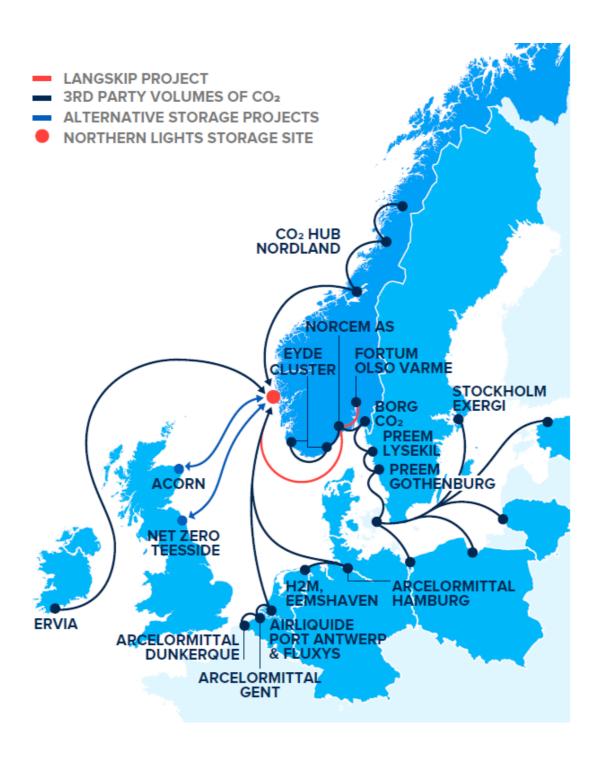




NETWORKS: THE FUTURE OF CARBON CAPTURE AND STORAGE



NETWORKS: THE FUTURE OF CARBON CAPTURE AND STORAGE





HEADLINES

- Tremendous growth now and projected
- Climate change and net-zero emissions commitments driving interest and commitment
- Policy and funding support building notably UK, Norway, Netherlands, EU, US, Canada, China, Japan
- Key developments
 - Enhanced tax credit in the US (45Q)
 - Langskip, Porthos, UK Clusters
 - China's 30/60 goals
 - Networks
 - Hydrogen
- Watchlist
 - CCS on LNG
 - Shipping
 - New geographies Russia, Lithuania, Timor-Leste
 - As support grows, so does opposition





THANK YOU

JEFF.ERIKSON@GLOBALCCSINSTITUTE.COM



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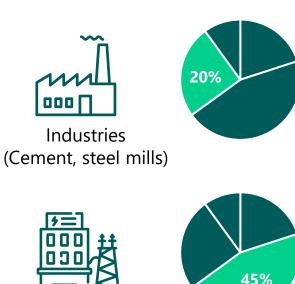
Part 2: Who we are - Technology & Partnerships

Why do we need Carbon Capture?

Energy Optimization

Renewable Energy

Carbon Capture and Storage







Buildings and others (10%)

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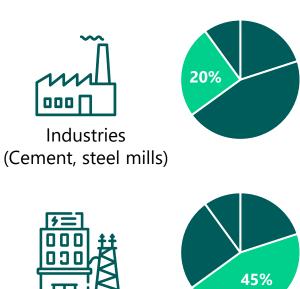
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Why do we need Carbon Capture?

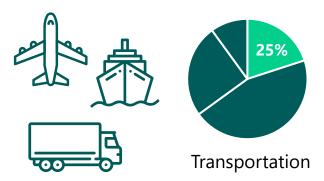
Energy Optimization

Renewable Energy

Carbon Capture and Storage



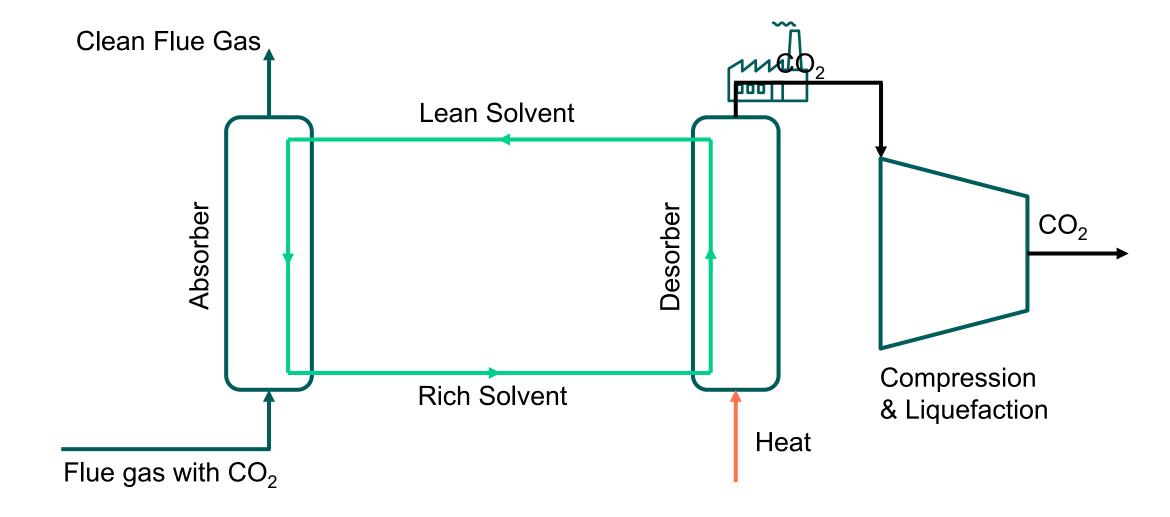




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Buildings and others (10%)

How does it work?





A long-term Norwegian technology initiative

1996 Start of Norwegian carbon capture initiative

Initial CO₂ separation at Sleipner field – World's first offshore CO₂ storage project¹

2008 - 2020

Extensive testing, development and validation

Mobile Testing Unit (MTU) – Flue gas testing (2008 - 2020)

SOLVit CCS R&D Programme (SINTEF, NTNU) (2008 - 2016)

> Technology Center Mongstad (TCM) (2012 - 2020)

> > Full scale CCS value chain (Includes: Northern Lights project) (2014 - 2024)

CO₂ separation from natural gas production during processing



Leading one of the largest R&D programmes in Europe (SOLVit)



Operating MTU and TCM at industrial-scale



Commercialisation

Now

First commercial scale contracts² awarded by Norcem and Twence

Established as a standalone carbon capture company











Working together to succeed



















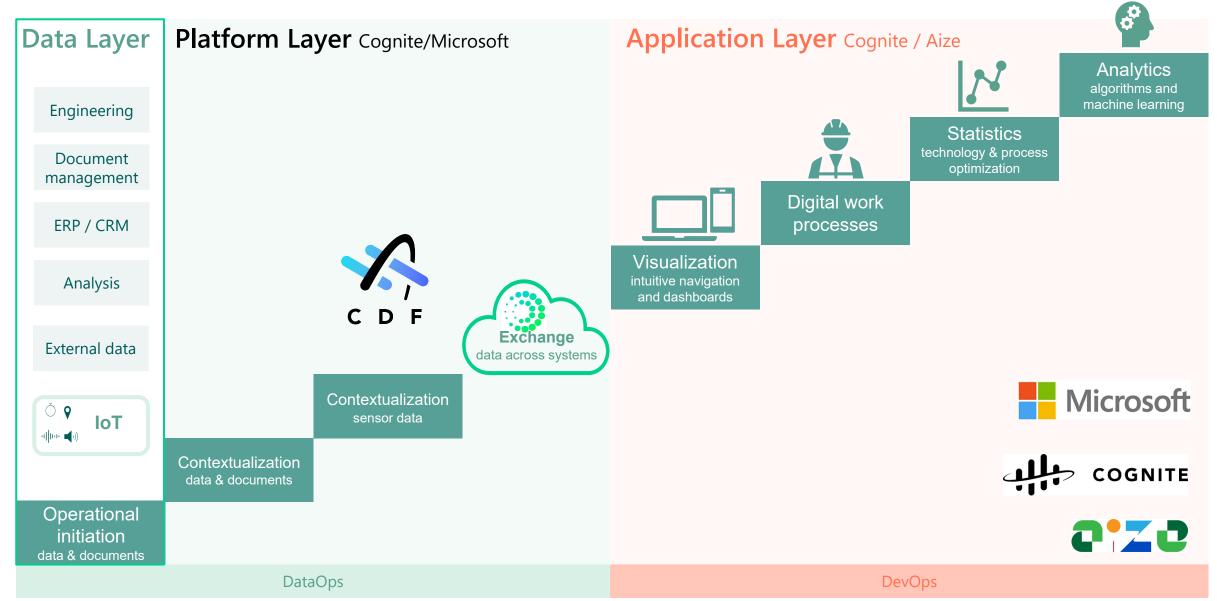








Building a digital ecosystem for carbon capture





Part 3: Business model innovation

One product – several offerings

Key offerings



Big Catch

Capacity: > 400,000 tonnes/year

- Made to order
- ~30-36 months delivery time¹
- Larger footprint
- Using bulk materials cost efficient
- Retrofit potential



Just Catch™

Capacity: 40,000 & 100,000 tonnes/year

- Modularized and cost efficient
- ~15 months delivery time
- Easy transport and installation
- Compact design 25m x 18m
- 100% automated

Delivery models License and key Carbon Capture as a Service equipment **EPC**

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Carbon capture made easy

From a complex management of the full CCS value chain...



Interface, contracts and risk across the full CCS life-cycle



Financing











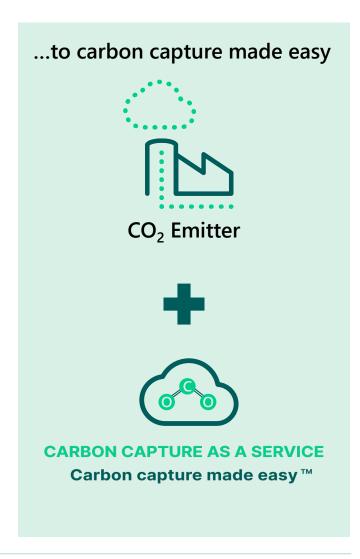


Carbon Capture Liquefaction

Temporary storage

Transportation

Permanent storage







CARBON CAPTURE AS A SERVICE Carbon capture made easy ™

Full value chain CCS in one service

- Standard capture solution covering a range of flue gases
- Transportation and storage embedded through strategic partnerships
- Pay per tonne CO₂ captured

How does Carbon Capture as a Service work?

Pay per tonne captured CO₂

1. Delivery



Select the carbon capture service that fits your needs. Aker Carbon Capture will commission the carbon capture plant.

2. Operation



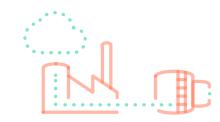
Aker Carbon Capture will operate the carbon capture plant and handle the transportation and storage value chain.

3. Growth



Expand carbon capture capacity by adding additional modules to the installation.

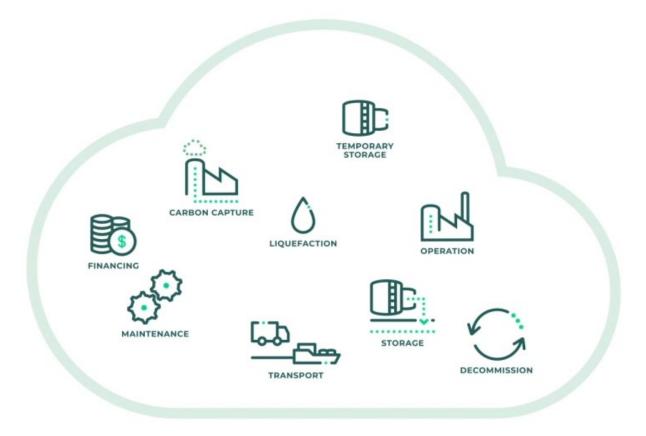
4. Flexibility



We understand that flexibility is key and have agreements in place to handle changes.



Carbon Capture Made EasyTM - flexibility also in scope



Customized CaaS

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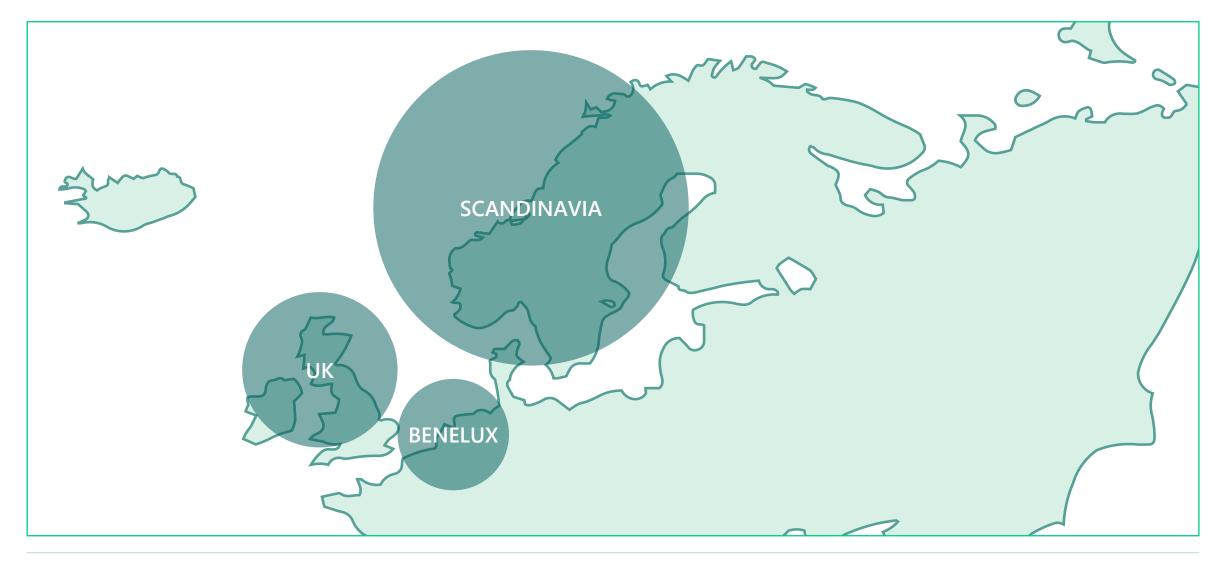
Carbonor





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Market drivers and infrastructure must be in place





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Untapped market potential for standardized solutions

Market has focused on large emitters so far

More than 700 relevant emitters across Europe

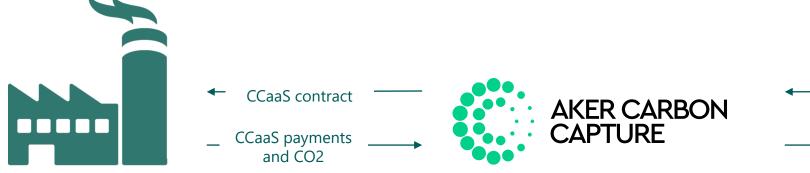
Potential to unlock synergies across CO₂ hubs and portfolios

Flexibility





Carbon Capture as a Service delivery model





End-customer

- No up-front investment required
- Transparent pricing model
- Reduced requirement for inhouse CCUS expertise

CCaaS provider

- Long-term revenue base throughout operations
- Further revenue potential from carbon price increases
- Remains capital-light

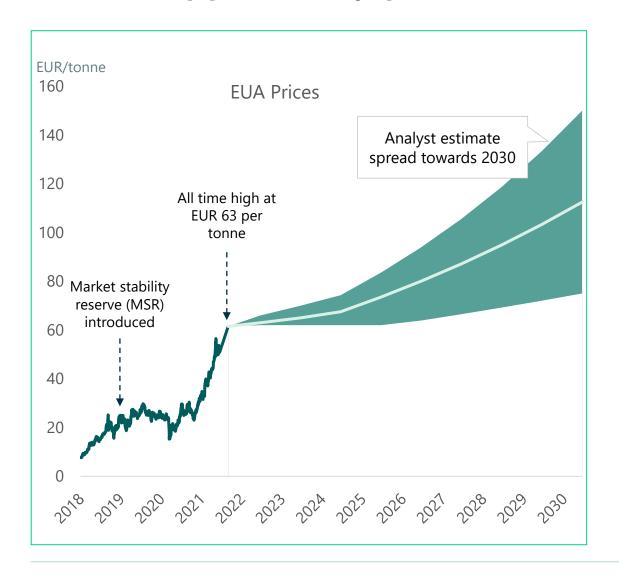
Financing partners

ACC will seek the lowest cost of financing through:

- Green Yield with support from Aker Horizons
- Other "green" asset investors
- Project financing partners



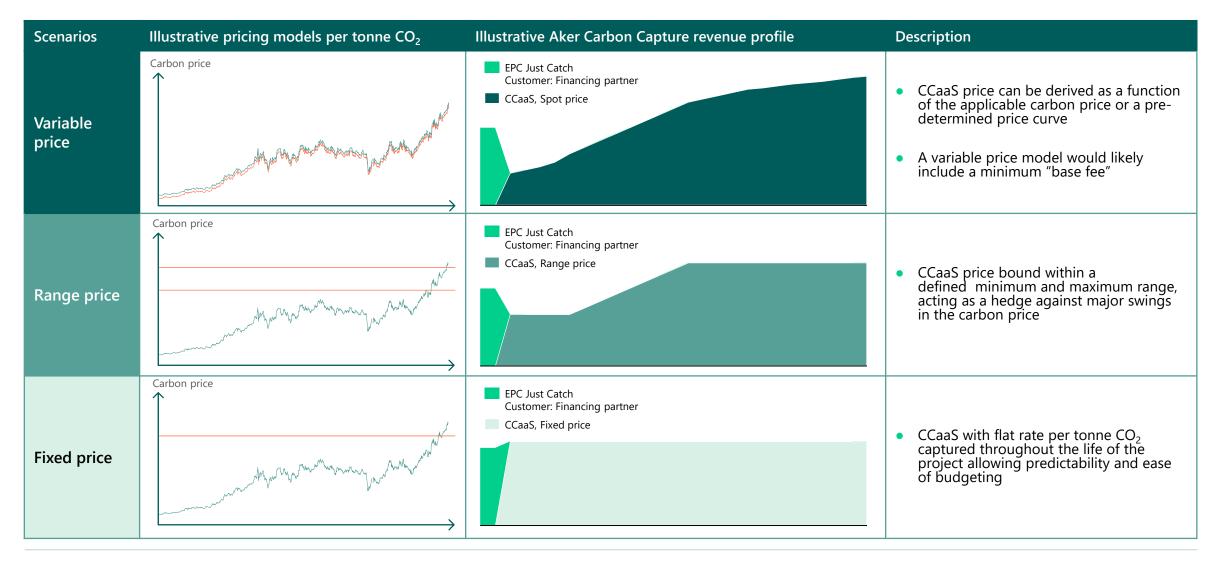
CCaaS supported by potential EUA allowance shortage



- Analyst 2030 targets range from EUR 75 to EUR 150 per tonne
- IEA sustainable development scenario requiring EUR 110 per tonne¹
- Role of the ETS emphasized in EU's "Fit for 55" climate policy proposal:
 - Further tightened allowance supply from 2023
 - Allowances in MSR above the previous year's auction volume no longer be valid from 2023
 - Carbon boarder adjustment mechanism introduced
- Complementary local carbon taxes and carbon contracts for difference increasingly being discussed



Pricing scenarios with focus on transparent cost for the customer

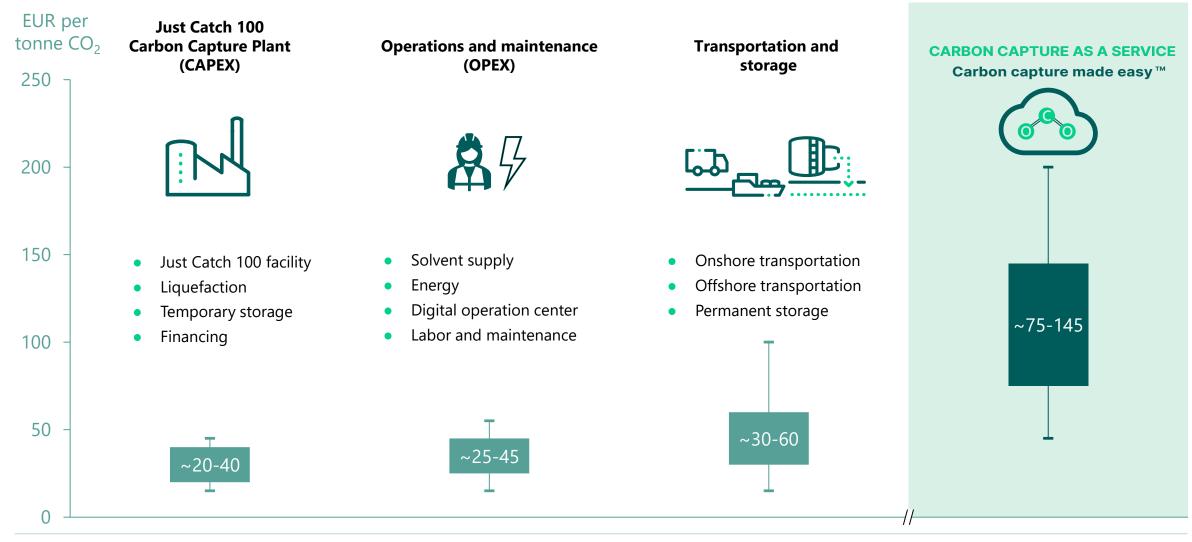


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Indicative Levelized Cost of Carbon Capture as a Service¹





Accounting guidance

EPC contract from financing partner – Revenue recognition Aker **Carbon Capture**

Fixed price contract for services provided by Aker Carbon Capture to financing partner (e.g. Green Yield) for engineering, procurement and construction of Just Catch 100 modules and equipment:

Revenue recognised over time, using cost progress method ordinary project accounting

Lease accounting Aker **Carbon Capture**

Aker Carbon Capture leasing a carbon capture module from financing partner (e.g. Green Yield) accounted for according to IFRS 16:

- Lease liability equal to present value of future lease payments
- Right of use asset in line with lease liability
- Cost reflected in P&L as depreciation of right of use asset and interest on lease liability
- No need for funding of right of use asset, i.e. ACC will remain capital light

Revenue recognition Carbon Capture as a Service

CCaaS contract with pricing linked to a variable price range, or fixed pricing method per tonne captured:

- Revenue recognised over time, linked to captured CO₂
- Costs recognised as incurred per tonne captured







CARBON CAPTURE AS A SERVICE Carbon capture made easy ™



Introducing new offering with lower customer barrier to entry



Building foundation for long term service revenues



Increasing exposure to full CCUS value chain



Providing technology, EPC and service offerings and maintain a capital-light business model



We are devoted to:

Doing the right thing

Working together

Bold innovation

Our guest speakers



Jeff Erikson, General Manager, Global Carbon Capture and Storage Institute

Global Carbon Capture and Storage Institute is an international thinktank whose mission is to accelerate the deployment of CCS. Jeff joined the Institute in January 2016, and is responsible for the growth of the Institute's membership, which now numbers more than 100 companies and governments.



Edda Aradóttir, CEO, Carbfix

Carbfix is a company that mitigates climate change by turning CO₂ emissions into stone underground. Prior to taking on her current role, Edda was the Head of Innovation and Strategic Planning at the department of Research and Innovation at Reykjavik Energy while also being the project manager for the international Carbfix project. Edda has extensive experience in research related to reservoir management and engineering, chemistry and hydrology as well as project management in the field of renewable energy.



Karim Amin, EVP, Siemens Energy

Karims joined Siemens in 2001 an his responsibilities include supporting customers with their energy transformation through a wide portfolio of products across fossil and distributed power generation. He currently oversees a global team of almost 30,000 employees, active in major industrial sectors including public utilities, independent power producers, oil and gas as well as industrial power generation.



Helene Mørne, CEO, Carbonor AS

Carbonor has been established to build green production facilities of engineered chemical carbon for industry using carbon capture and storage. Helene has a 20 year history in public and private sector corporate and project management, including M&A, environmental projects and CCS-related industry.



Joanna is Industry Director, EMEA, Microsoft

Joanna has over 15 years of industry experience in Process Industries and Oil & Gas in particular, including work as Business Development and Sales Representative for major System Integrators and Software companies. She has working experience in the entire Oil & Gas value chain. Her recent experience and training focus on energy transition.



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