GASSNOVA’S ROLE IN THE DEPLOYMENT OF CCS

Trude Sundset, CEO
THE TIME IS NOW!

No country can reach the Paris Agreement without CCS in industry and energy sectors. This puts pressure on all countries to create a CCS infrastructure sooner rather than later.
‘CCS is an important part of the government’s climate policy, and our ambition is to realise at least one full scale demonstration project for CCS.’

Terje Søviknes, Minister of Petroleum and Energy
GASSNOVA SF
The Norwegian State Enterprise for CCS

• Manage the State’s CCS interests
• Advise the Ministry of Petroleum and Energy
• Contribute to technology development and knowledge-sharing
OUR HOLISTIC APPROACH

TCM
CO₂ Technology Centre Mongstad

CLIMIT
Research, Development and Demonstration program

Full Scale
One value chain 2022
CO₂ TECHNOLOGY CENTRE MONGSTAD (TCM)

- The world’s largest and most flexible test facility for CO₂ capture
- Aker Solutions, Alstom/GE, Cansolv Tech., Carbon Clean Solutions and ION Engineering
- Share expertise, knowledge and experience
- Owners: Gassnova, Statoil, Shell and Sasol
  - MoU with Total
- Operations for three more years
NORWAY: FULL-SCALE CCS PROJECT

Norcem Heidelberg Cement plant

Yara Porsgrunn Fertilizer plant

Klemetsrudanlegget AS Waste-to-energy plant
NORWAY: FULL-SCALE CCS PROJECT

CO₂ STORAGE
- Intermediate onshore storage
- Offshore storage at Smeaheia
- Large capacity

CO₂ TRANSPORT
Ship transportation

CO₂ CAPTURE
Norcem Brevik
Cement plant
Yara Porsgrunn
Ammonia plant
Klemetsrudanlegget AS
Waste-to-energy plant
CO₂ STORAGE

• An offshore storage site in a saline aquifer
• The "Smeaheia" storage located 50 km from the coast
• Large storage capacity (project will utilize < 1%)

Source: Statoil
MAYBE WE CAN TURN THE NORTH SEA INTO A CO₂ STORAGE HUB FOR ALL OF EUROPE