GAS STORAGE DENMARK



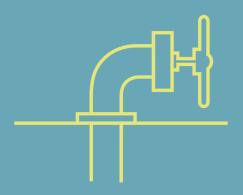
CREATING VALUE THROUGH

HYDROGEN STORAGE

MADS DAMSØ NIELSEN MNQ@GASSTORAGE.DK +45 61704442

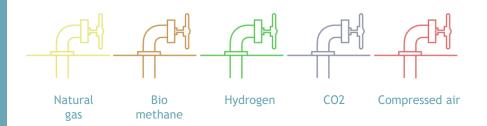


SINGLE-COMMODITY NATURAL GAS STORAGE



Economy-of-scale

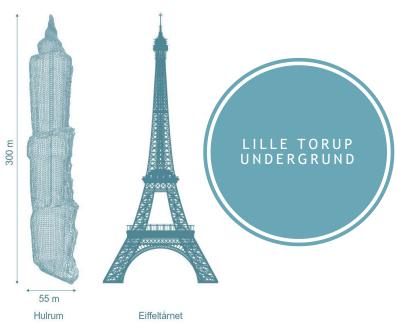
MULTI-COMMODITY ENERGY STORAGE



Economy-of-scope







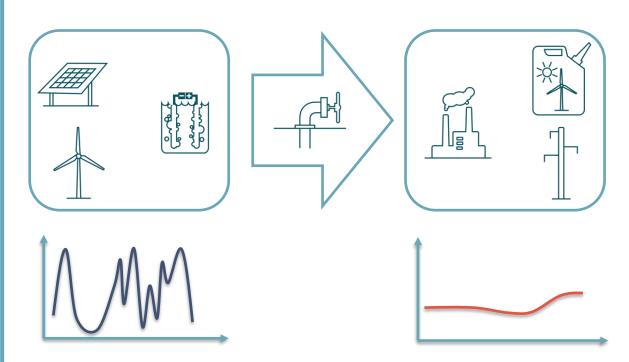


Storage Enables the value chain

Production of green hydrogen driven by renewable energy
➤ Volatile and unpredictable

Profile of hydrogen demand depends on setup and customers > Continuous and predictable

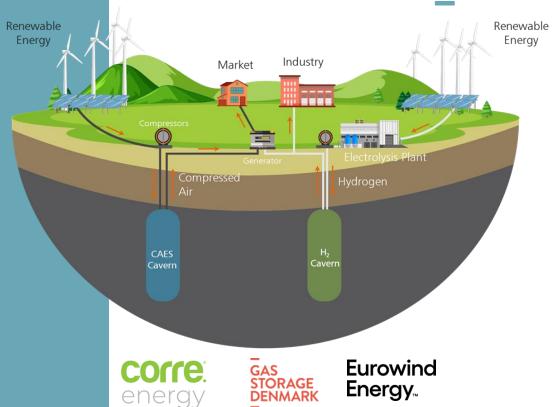
Storage balances the value chain >high utilisation and security of supply





GREEN HYDROGEN HUB DENMARK

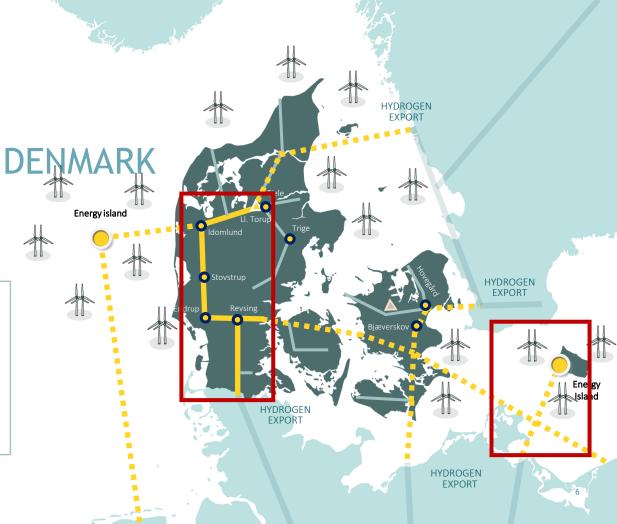
- First of its kind
- Power-2-X Power-2-Power
- Public-Private innovation partnership
- Large-scale, long-duration renewable energy storage





HYDROGEN
INFRASTRUCTRE
DEVELOPMENT IN DENMARK





GAS STORAGE DENMARK

UNIVIB

PLANS FOR ONSHORE

CO₂ STORAGE IN STENLILLE

LAURITZ TIM DAA FUNDER LTF@GASSTORAGE.DK +45 24215162









PHASE 1: ULTIMO 2025

Technical solution

- Conversion of an existing observation well into a CO2-injection well
- Top site designed for truck delivery of CO2 in liquid form

Purpose:

- Fast-track project with the aim to establish a knowledge-base through early experience and provide the basis for development of new CCS value chains
- Knowledge-sharing with the market
- Stepping stone for phase 2

Project details:

Total volume capacity: +10 MT
 Yearly injection capacity: 0,2-0,3 MT

• 10-year capacity contracts expected

PHASE 2: 2027/2028

Technical solution:

- Establishment of two new CO2-injection wells
- Top site designed for receival of CO2 through a combination of pipeline and truck

Purpose:

- Optimization of the usage of the Stenlille storage capacity
- Accumulation of knowledge to support development of large-scale CO2 storage sites in Denmark on land

Project details:

• Total volume capacity: +10 MT (same as in phase 1)

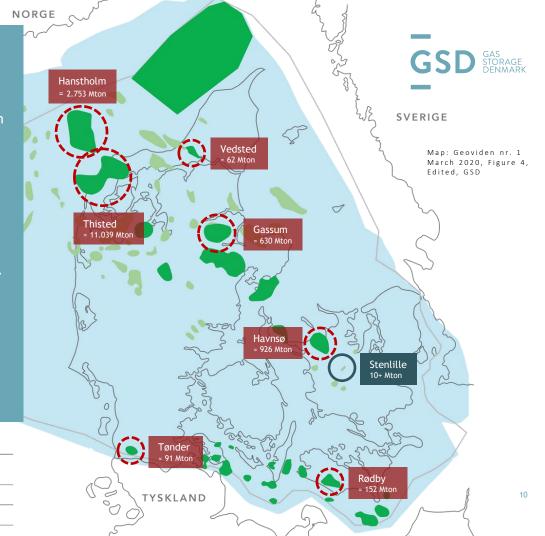
• Yearly injection capacity: 0,5-1 MT

· Length of capacity contracts expected to vary

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Onshore storage potential

- Estimated total Danish CO2 storage potential of between 12.3 and 24.6 billion tonnes of CO2.
- Storage licenses for 8 selected regions (see map) are expected to be assigned in early 2024 through a tender process.
- GSD has had ongoing dialogue with several commercial players who wish to collaborate with GSD on the development of other CO2 storage locations in Denmark.
- GSD is pursuing clarification with the Danish Ministry of Climate, Energy and Utilities about what role GSD can/should take in relation to the other Danish storage locations.



POTENTIELLE CO2 LAGRINGSOMRADER

Område med mulighed for at finde egnede CO2-lagrer (sandsten 800-3000 m)

Udvalgte undersøgte områder (strukturer)

Kortlagte ikke undersøgte områder (strukturer)