



renewable energy at scale







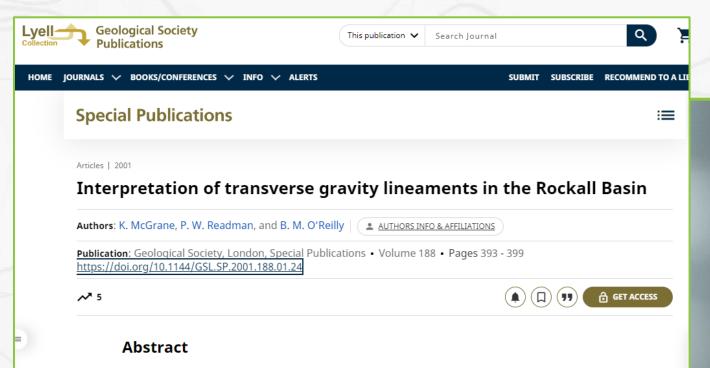






Familiar with the Geological Society





A number of regional transverse gravity lineaments crosscutting the Rockall Basin are interpreted from satellite gravity data. Euler deconvolution carried out on gravity data along a wide-angle seismic profile indicates that a major NW-SE-trending lineament within the basin reflects pronounced variations in crustal structure and sedimentary thickness. These thickness variations are interpreted as the result of cross-basin faulting along a zone defined by this lineament. Transverse gravity lineaments to the north of this feature are similarly interpreted as major cross-basin fault zones.



About us and Long Duration Energy Storage

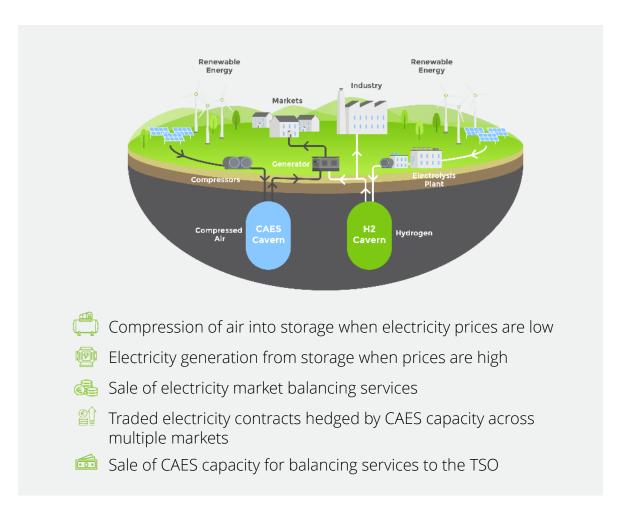


Corre Energy is a European company at the forefront of developing, commercialising and future operation of Long Duration Energy Storage projects and products (**LDES**)

These **projects** and **products** will accelerate **decarbonisation** and enhance the **security** and **flexibility** of energy systems

Corre Energy's design can yield up to **84hrs (3.5 days) of storage based on output capacity of 320MW** to enable integration of gigawatt renewables and green hydrogen use

Our team has extensive experience and success in the energy sector, including market-leading expertise in modelling the capability of LDES to **integrate** large **grid scale renewables**





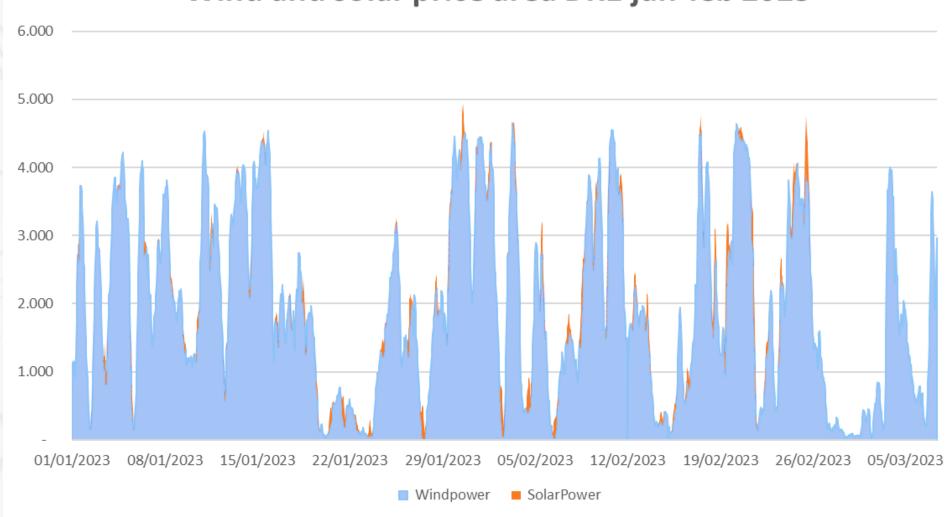
www.corre.energy

The Challenge



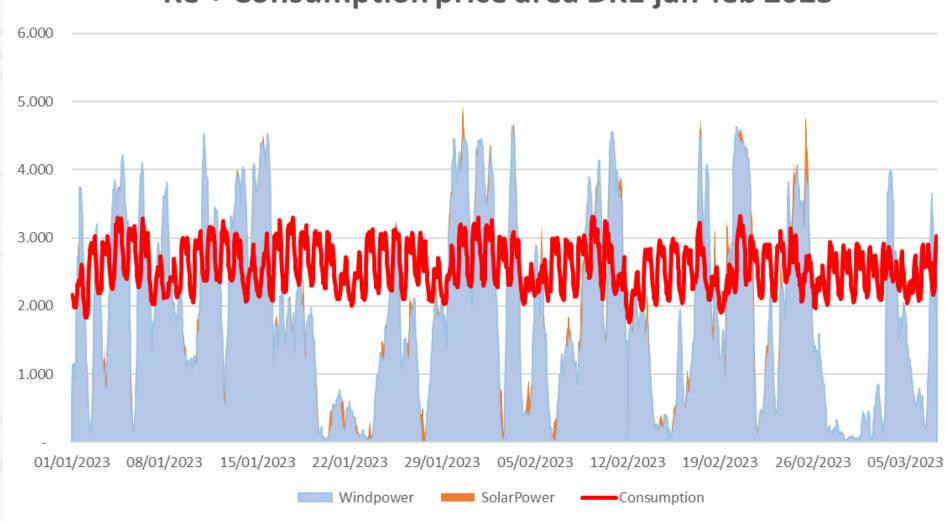


Wind and solar price area DK1 jan-feb 2023



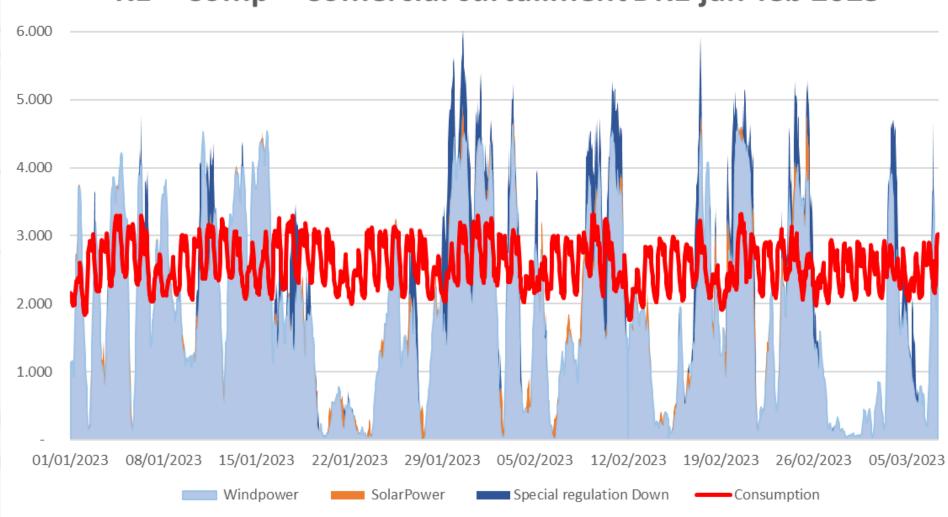


Re + Consumption price area DK1 jan-feb 2023

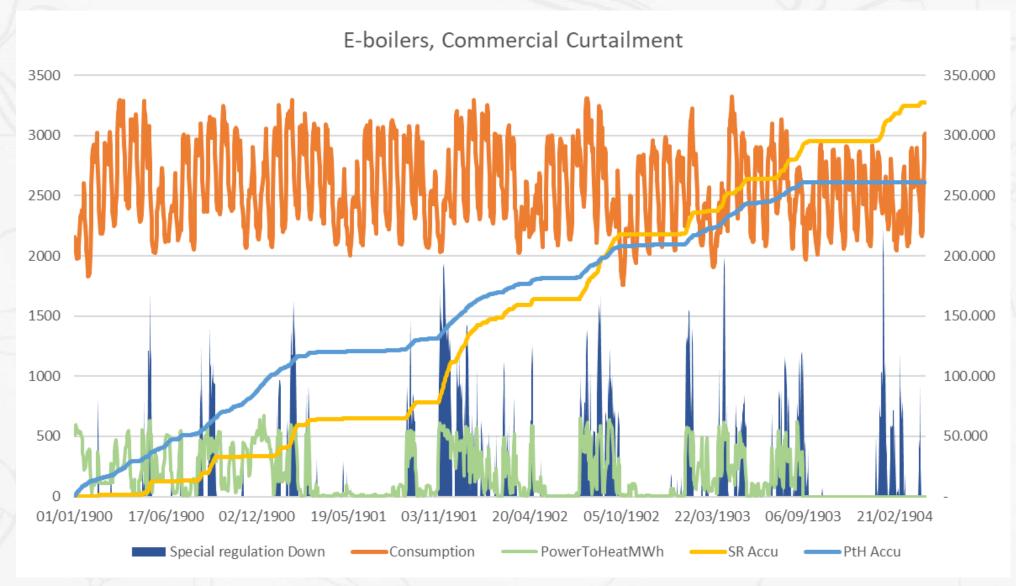














Hydrogen fueled Compressed Air Energy Storage











Why CAES is better than a normal gas turbine



Efficiency





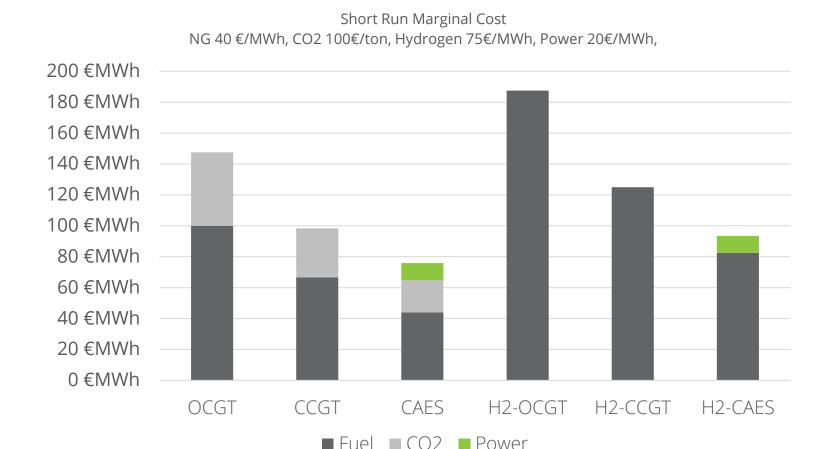


- CAES is more flexible than Open Cycle
 Gas Turbine
- CAES is as energy efficient as a Combined Cycle Gas Turbine
- CAES has lower marginal cost that a CCGT, due to 1/3 of the input energy is low price power (otherwise curtailed)

Flexibility

Why CAES is better than a normal gas turbine

Let's look at the numbers





Marginal Cost

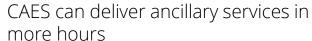
- Natural Gas € 40,-/MWh
- CO2 € 100,-/ton
- Hydrogen € 75,-/MWh
- Power € 20,-/MWh

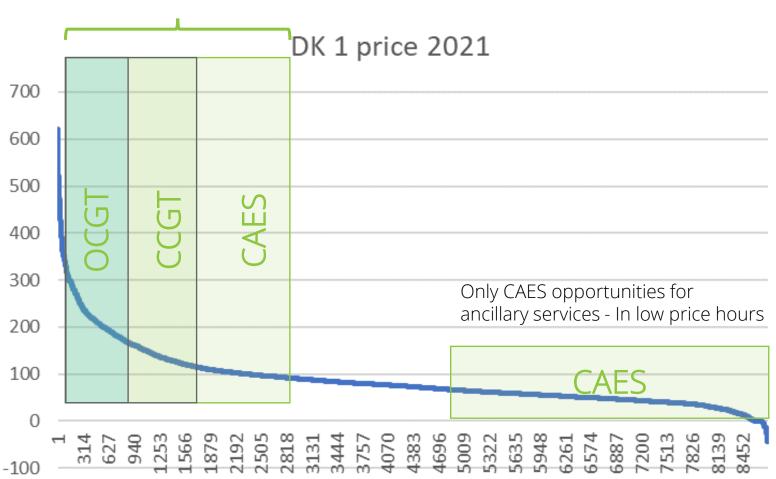
CAES project in Groningen, NL
Will start using Natural Gas, but
moving to H2 - even before other
powerplants will be out of
operation.

If the NG price is "only" 40€/MWh

Comparing added value for balancing the electricity network







- Low marginal cost
- more opportunities for ancillary services

Value drives for CAES





Strategic partnership

Eurowind Energy...

corre.energy:



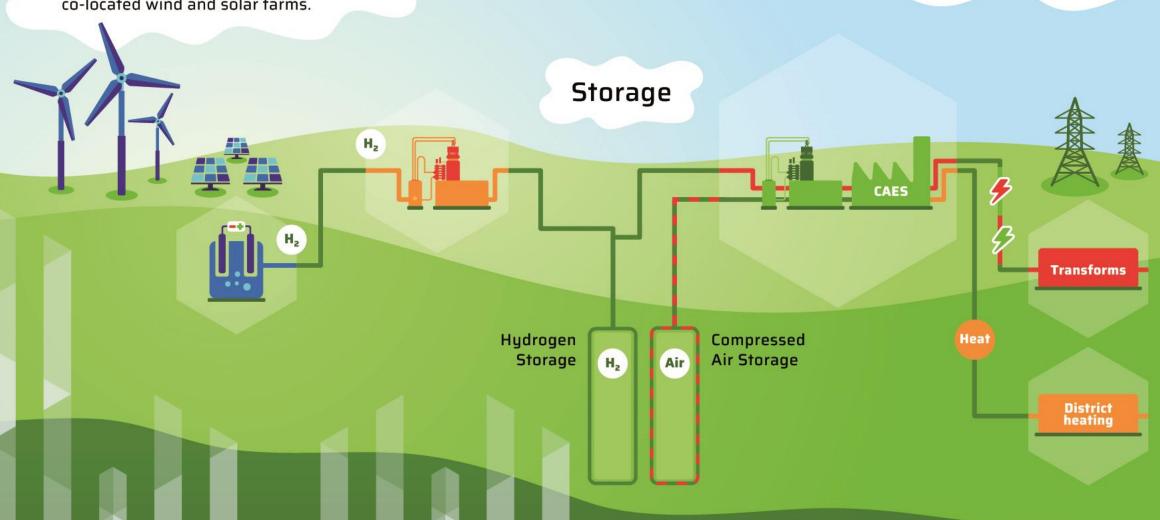
Energy is life. Let's safe it.







Renewable energie & Hydrogen production Hydrogen is produced using energy from co-located wind and solar farms.



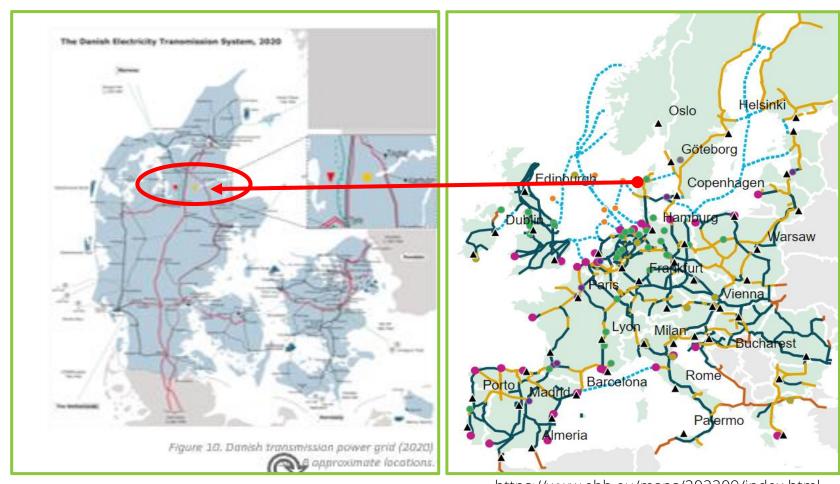
Energy is life. Let's safe it.

Excellent location within the European Hydrogen Backbone



The use of underground salt caverns for hydrogen storage, which the electrolyser and CAES facility are connected to, are of strategic interest to the Danish state and managed by GHH-participant Gas Storage Denmark, a subsidiary of Energinet [TSO]

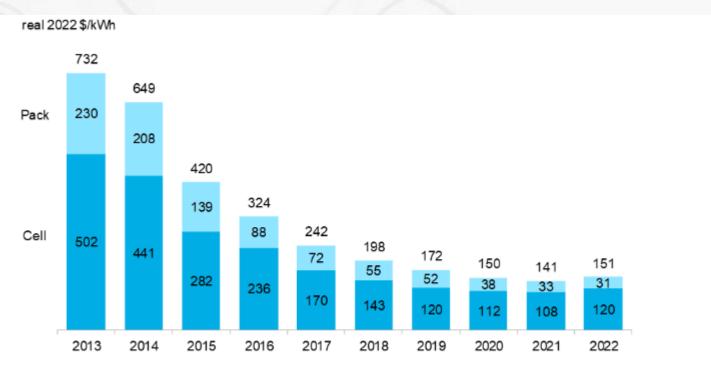




https://www.ehb.eu/maps/202209/index.html

Long duration require low unit cost

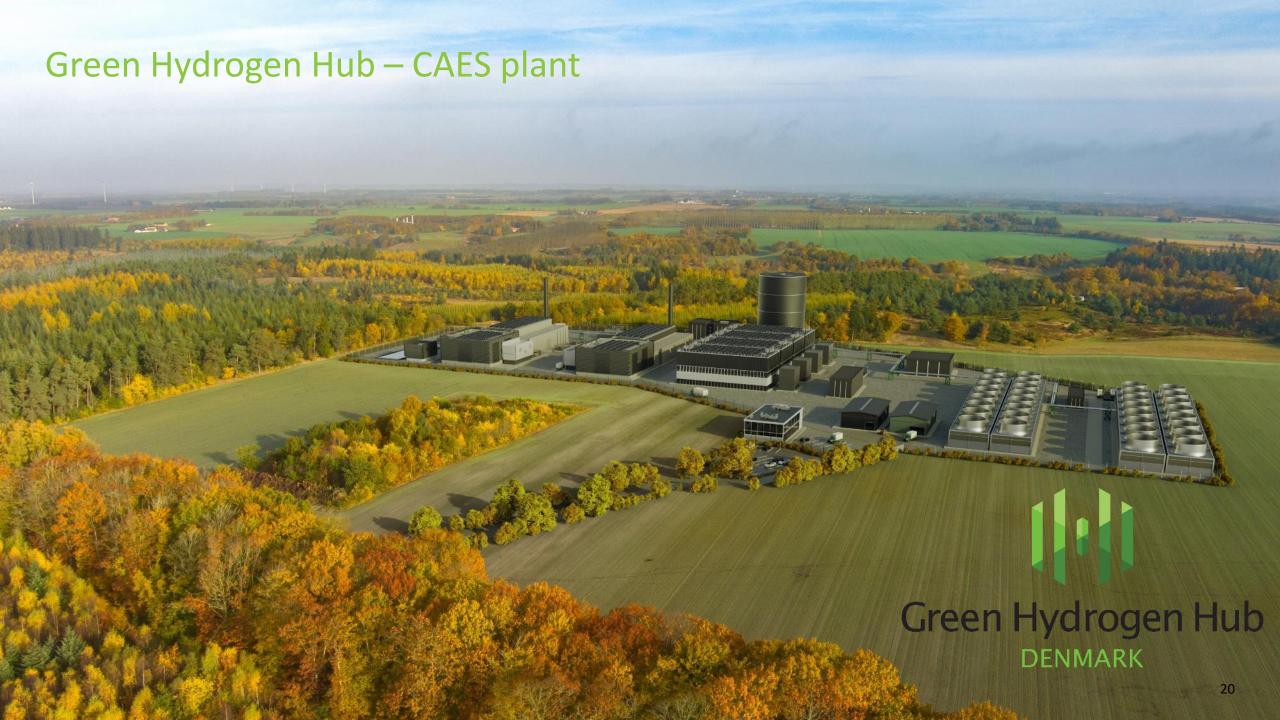




Source: BloombergNEF. All values in real 2022 dollars. Weighted average survey value includes 178 data points from passenger cars, buses, commercial vehicles and stationary storage.

Green Hydrogen Hub economics
Storage capacity:

- 140,000,000 kWh Hydrogen
- 12,000,000 kWh Compressed air
- Total cost including electrolyser, hydrogen pipeline, hydrogen storage, and CAES facility:
- 1 Bn€
- Cost per energy unit: ~7 €/kWh.



The sponsors are experts within their industry







Eurowind Energy...

CORRE ENERY ApS

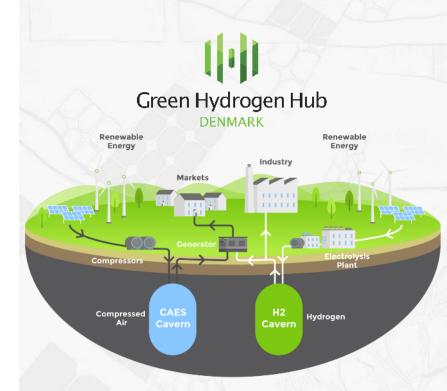
is a wholly-owned subsidiary of Corre Energy B.V., which is a Euronext Dublin listed Long Duration Energy Storage developer. Corre Energy is responsible for development and implementation of the CAES project

GAS STORAGE DENMARK A/S

is a wholly-owned subsidiary of the state-owned power Transmission System Operator, Energinet A/S. GSD will make underground salt caverns available for compressed atmospheric air and hydrogen storage

EUROWIND ENERGY A/S

is owned in part by its founders and Norlys a.m.b.a., which is the largest integrated utility in Denmark. Eurowind Energy is responsible for developing and implementing the electrolyser projects



Value chain and value/risk drivers - Commercial eneabler

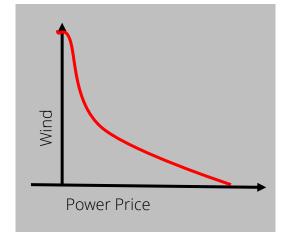


- Value and risk drives are different across the value chain
- There are significant interface risks between each link

But:

- Across the total value chain the risk is lower than the sum of individual risks.
- Solution:
- Long term contracts and profitshare across the value chain

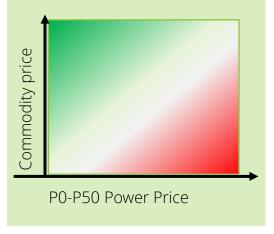
Wind power



Co-varianceWind-Power price



Electrolyser



SpreadCommodity-P50



CAES



Spread P80-P30









Q&A Your questions please







05 Appendix



Hans-Åge Nielsen – Chief Commercial and Products





- Over **20 years' experience** in power, gas and storage
- Recognized in the field for his expertise
- Pioneering valuation of storage in energy systems
- Innovator of new business models to enable development of green field hydrogen-based storage solutions.
- Leader in the development of large-scale underground hydrogen storage in Denmark

Hans-Åge Nielsen, is trained in Engineering Business administration, Management and Strategy & Organisational Psychology.