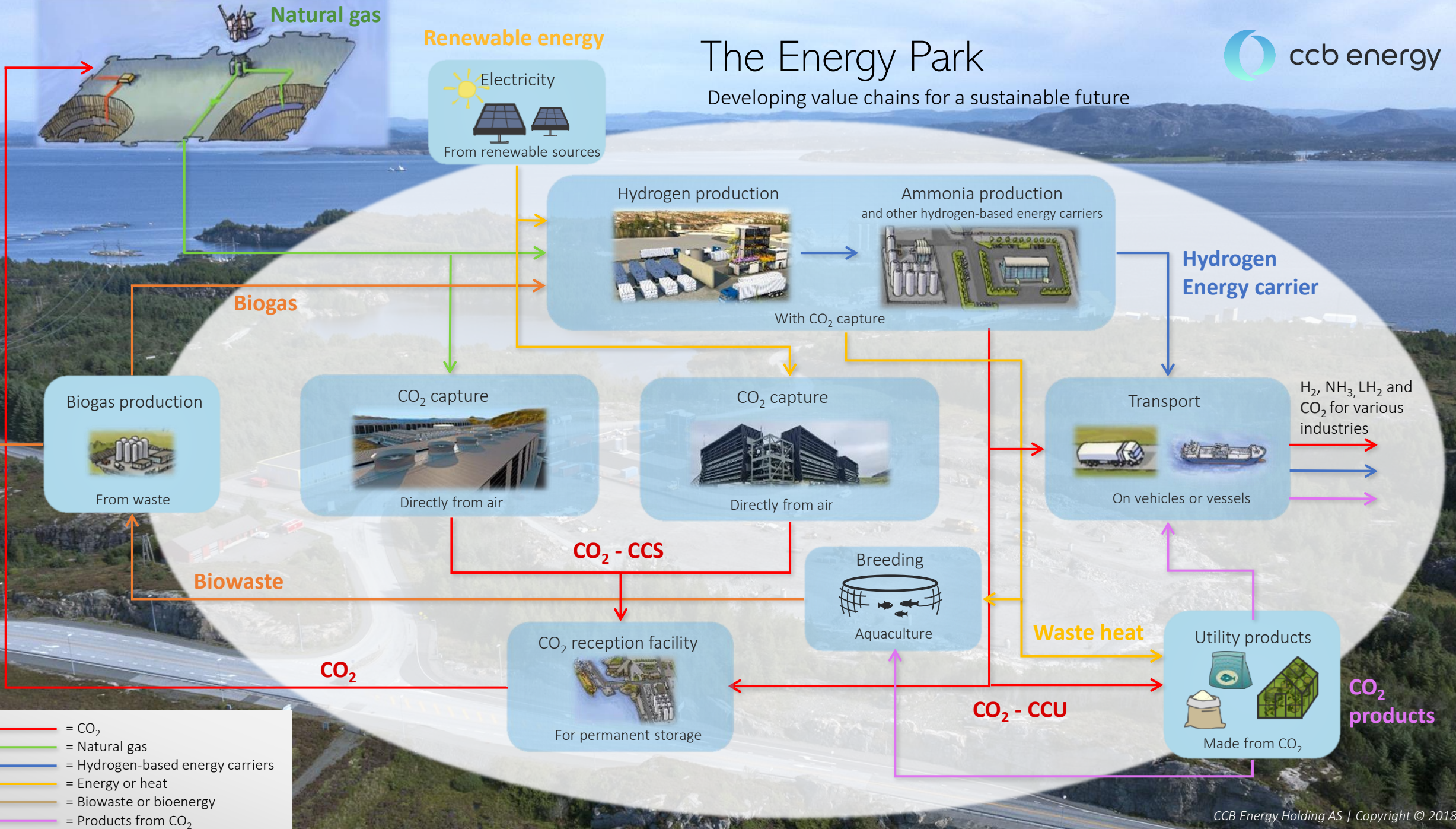


ccb energy

Developing the Energy Park,
appointed green hub of Vestland county

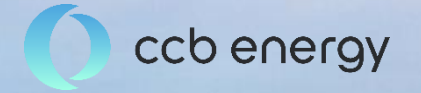
The Energy Park

Developing value chains for a sustainable future





CCB Energy and The Energy Park



Main maritime route
>20 000 annual passing

Northern Lights
The world's first location for receiving captured CO2 for permanent storage

H2 Production
World's first Hydrogenplant that use natural- og Biogas and integrate capture of CO2 in same facility.



GASSCO
Natural gas process

2000 mt

H₂ Produksjon

800 mt

The Energy Park
Northern Lights
CO₂ reception

A Net Zero future requires hydrogen at large scale

*Large-scale production, transport, storage and utilization of **hydrogen** and hydrogen based fuels such as **ammonia** and **methanol**, is essential on the pathway to net zero and a clean energy future*

Why blue energy carriers

- Norway among the world's largest resources of natural gas
- Natural gas is a stable, available energy resource
- Norway masters the technology to permanently store CO₂ and will have the world's 1st open commercial CO₂ storage
- Fastest way for large-scale development of H₂ and H₂ energy carriers such as ammonia, liquid H₂ and LOHC
- Provides long-term perspective and strong focus for capturing of CO₂

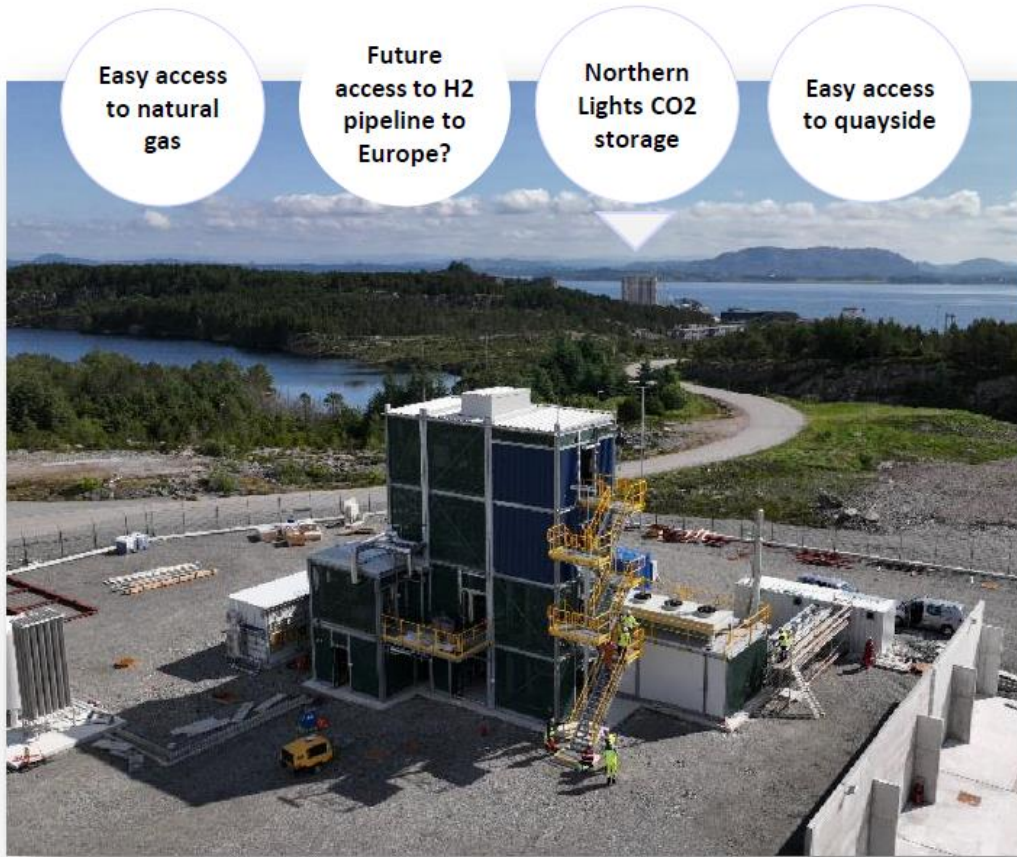
*"If hydrogen is to be a **low or zero emission energy carrier**, it must be produced with zero or low emissions. This can be achieved either through electrolysis of water using renewable electricity, or from steam reforming processes **involving natural gas** or other fossil fuels **combined with CCS**. In this strategy, low and zero emission hydrogen is described as clean hydrogen or simply hydrogen."*

Opening of the H1 plant at the Energy Park


ZEG's first commercial delivery to customer H2 Production



H2 PRODUCTION AS





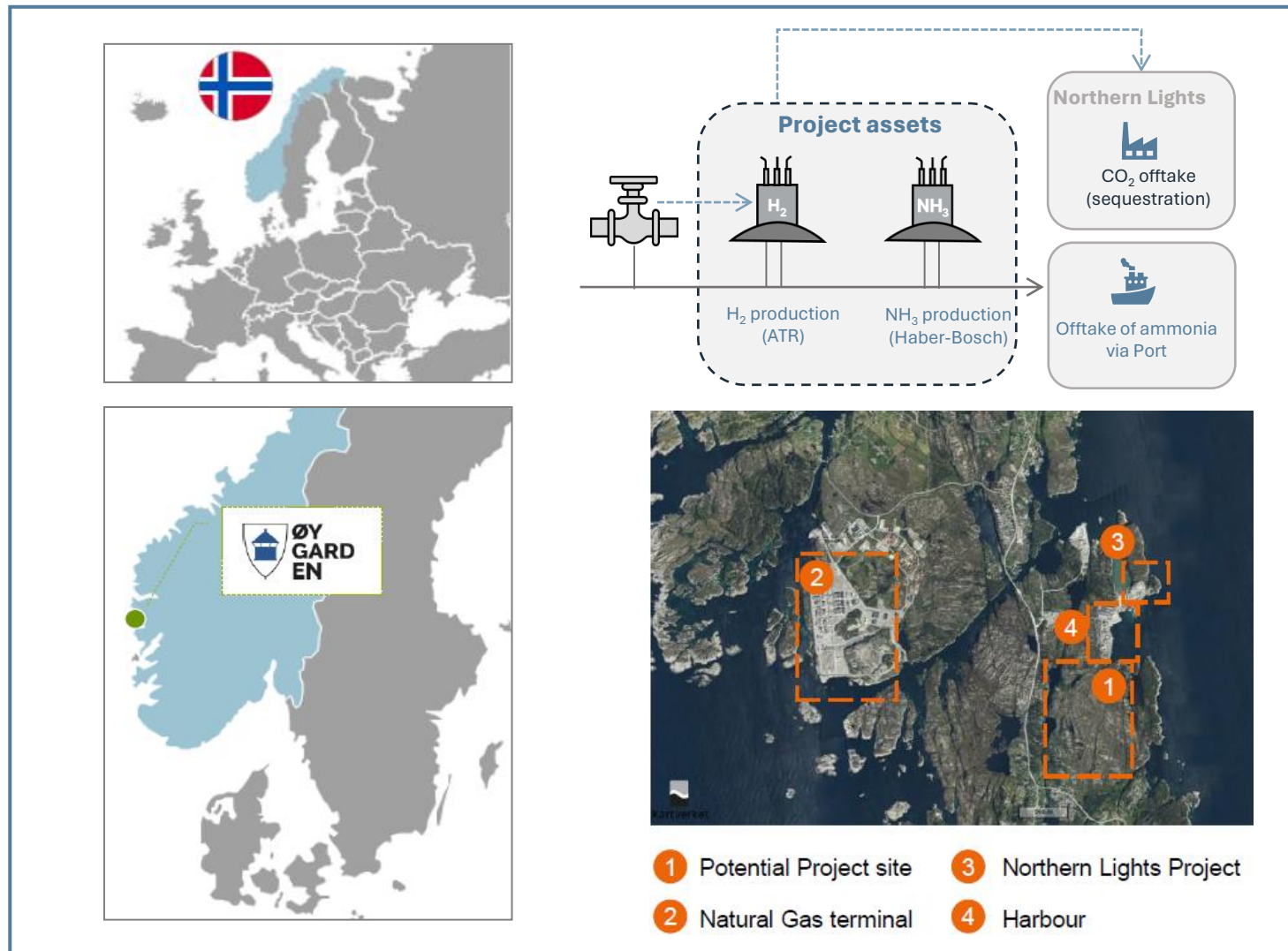
PART OF
 ccb energy



Introduction to blue ammonia opportunity in Southwest Norway

Large-scale blue ammonia project in Øygarden, Norway

Overview of infrastructure assets and project location



CBB Energy and CIP to jointly develop a blue ammonia production plant – large-scale production.

Expecting competitive LCOA due to unique location benefits.

Topsoe SynCOR™ with min. 98% carbon capture, already developed technology used at the ST. Charles, US.

99 % capture of direct CO₂ from the process plant.



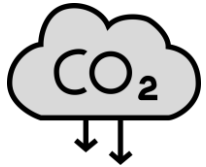
H2 PRODUCTION AS



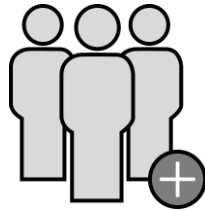
Copenhagen Infrastructure Partners

Contributing to society and economic growth

The CCB Energy projects with H2P and CIP activities will have positive social impact on the local economy, including employment opportunities, innovation and skill build-up within blue NH₃



Reduced CO₂ emissions



Employment in Øygarden region



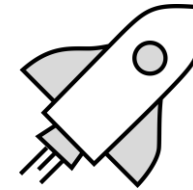
Synergies within the Energy Park



Economic regional impact



Combating air pollution



Kick-starting blue hydrogen energy carrier industry



Sustainable development & industrial appl.



Energy storage & security



International collaboration



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Thank you for your attention!

*For more information, visit
www.ccbeh.com*

