

# LH2 Maritime Ecosystem



Lars Grimsmo  
Chief Strategic Development



# Gen2 Energy developing 4 sites for liquid hydrogen (LH<sub>2</sub>) production in Norway

## NESBRUKET

**195<sub>MW</sub>**

FID (110 MW Fase I) 2025\*

Nesbruket 1 has been awarded **61.6MEUR** in an OPEX grant under the **Maritime** section of the **EUHB Auction**

## ÅFJORD

**150<sub>MW</sub>**

FID 2027\*

## HOLANDSVIKA

**500<sub>MW</sub>**

FID 2028\*

## FARSUND

**150<sub>MW</sub>**

FID 2028\*

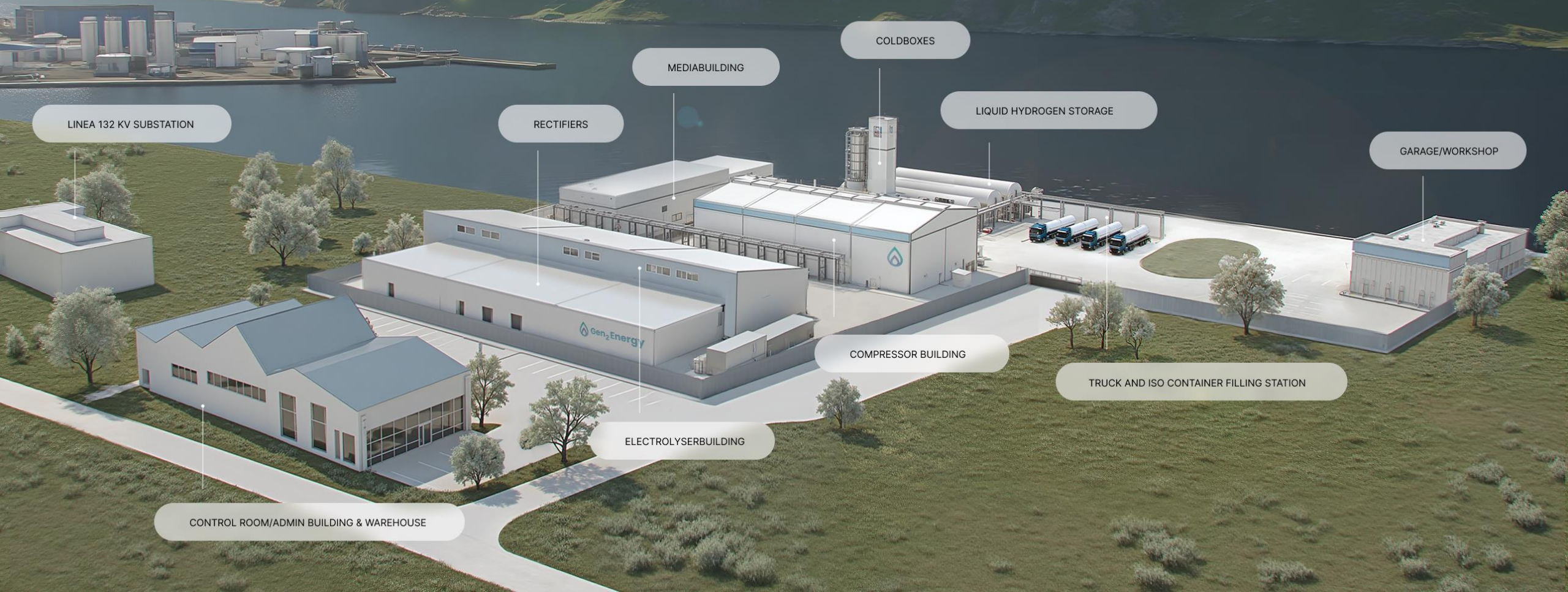
Note: \*) Planned date for investment decision. FID (Final Investment Decision)





# Production of Liquid Hydrogen

## Partnering with Chart Industries Inc.



LINEA 132 KV SUBSTATION

RECTIFIERS

MEDIABUILDING

COLDBOXES

LIQUID HYDROGEN STORAGE

GARAGE/WORKSHOP

COMPRESSOR BUILDING

TRUCK AND ISO CONTAINER FILLING STATION

ELECTROLYSERBUILDING

CONTROL ROOM/ADMIN BUILDING & WAREHOUSE



Awarded

# 61.6 MEUR

Auction Grant from  
EU Hydrogen Bank



The Hydrogen Bank is a financing instrument to accelerate the establishment of a full hydrogen value chain in Europe.



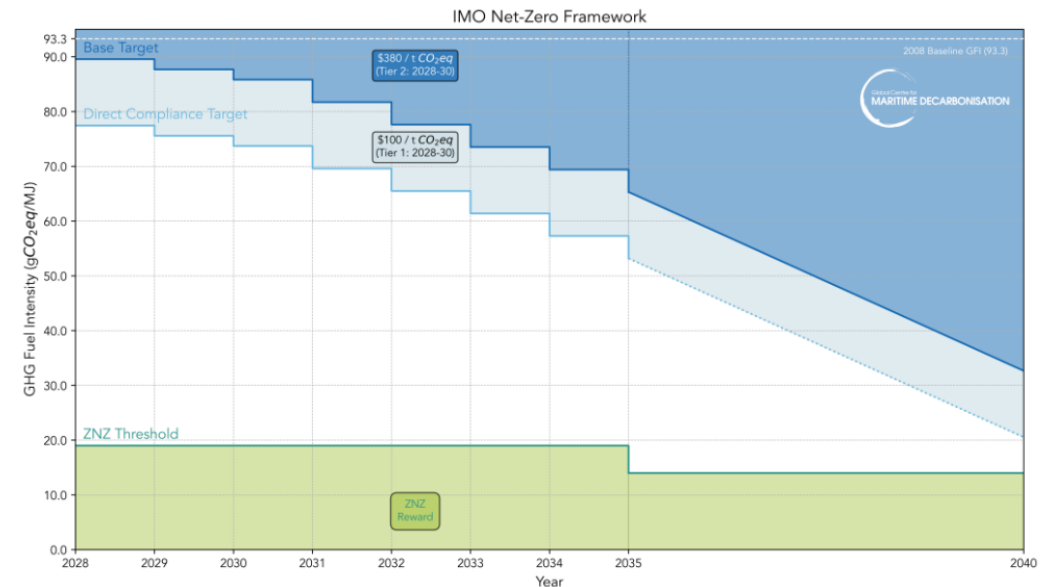
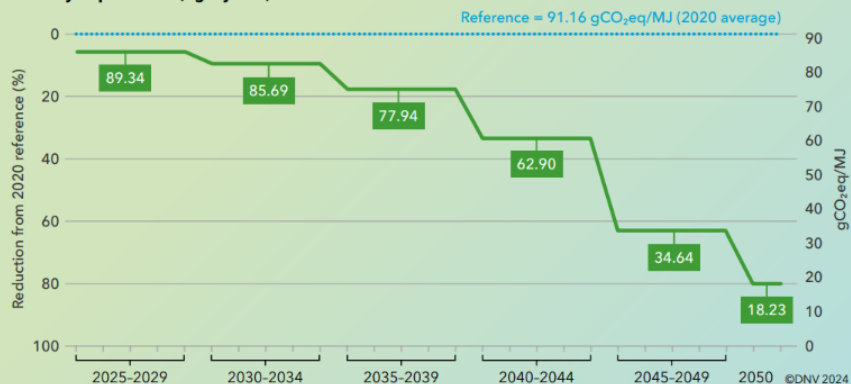
# Regulatory pull



1. IMO Net Zero Framework
2. FuelEU Maritime + ETS
3. German THG System
4. Enova 'Hydrogen i fartøy' (Norway)
5. Norwegian Law proposal on Offshore Vessels
6. National Ban on Fossil Fuels in Heritage Fjords

FIGURE 2-2

**FuelEU Maritime GHG intensity requirements from 2025 to 2050.** The requirements are given as percentage reductions (left y-axis) relative to a reference (the GHG intensity in 2020), which provide the absolute GHG intensity requirements (right y-axis).



Credit: GCMD

# LH2 Supply tailored to customer needs

Rail transport



Road transport



Container vessel



Tanker vessel



Feeder vessels



# Collaboration towards the maritime market



Gen2 Energy has been developing several essential partnership enabling the infrastructure for liquid hydrogen.

Liquid hydrogen can be offered to any ship bunkering in Norway and in Northern Europe at competitive prices.

Under the collaboration with Chart Industries Inc, the customer may rent the relevant transportation units under favorable and risk free terms, and thus reduce the total Capex requirement for the hydrogen system of the customer.



 **Gen<sub>2</sub> Energy**

 **CHART**

 **LITRA**  
gass

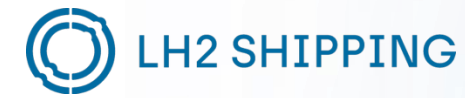
 **ASCO**

 **LH2 SHIPPING**



# We can't do this alone

Together with partners we are developing efficient seaborne transport and ship-to-ship bunkering solutions for LH2







# THANK YOU!

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