

# Gasnor - a frontrunner and a pusher for more Sustainable energy







## Gasnor

- **Startup 1994 with pipeline. LNG in 2003.**
- **55 employees.**
- **LNG production at Kollsnes and Karmøy**
- **Distribution along the Norwegian coast by ship and trucks**

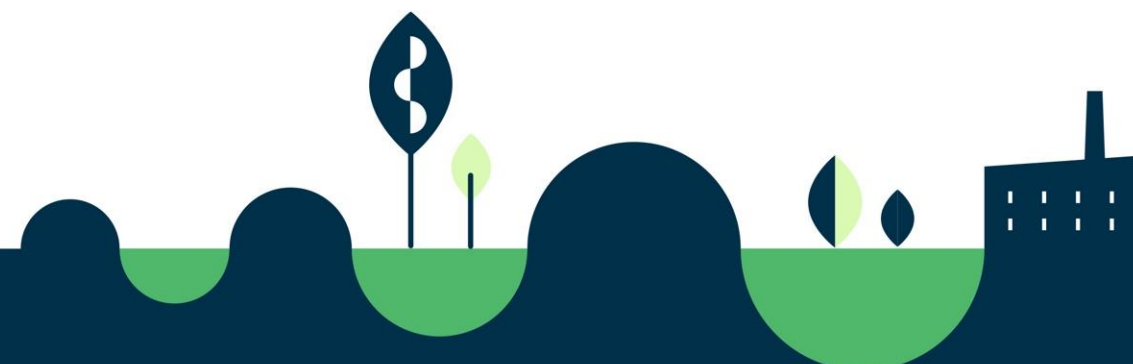
**Owned by Molgas Energy Holding**





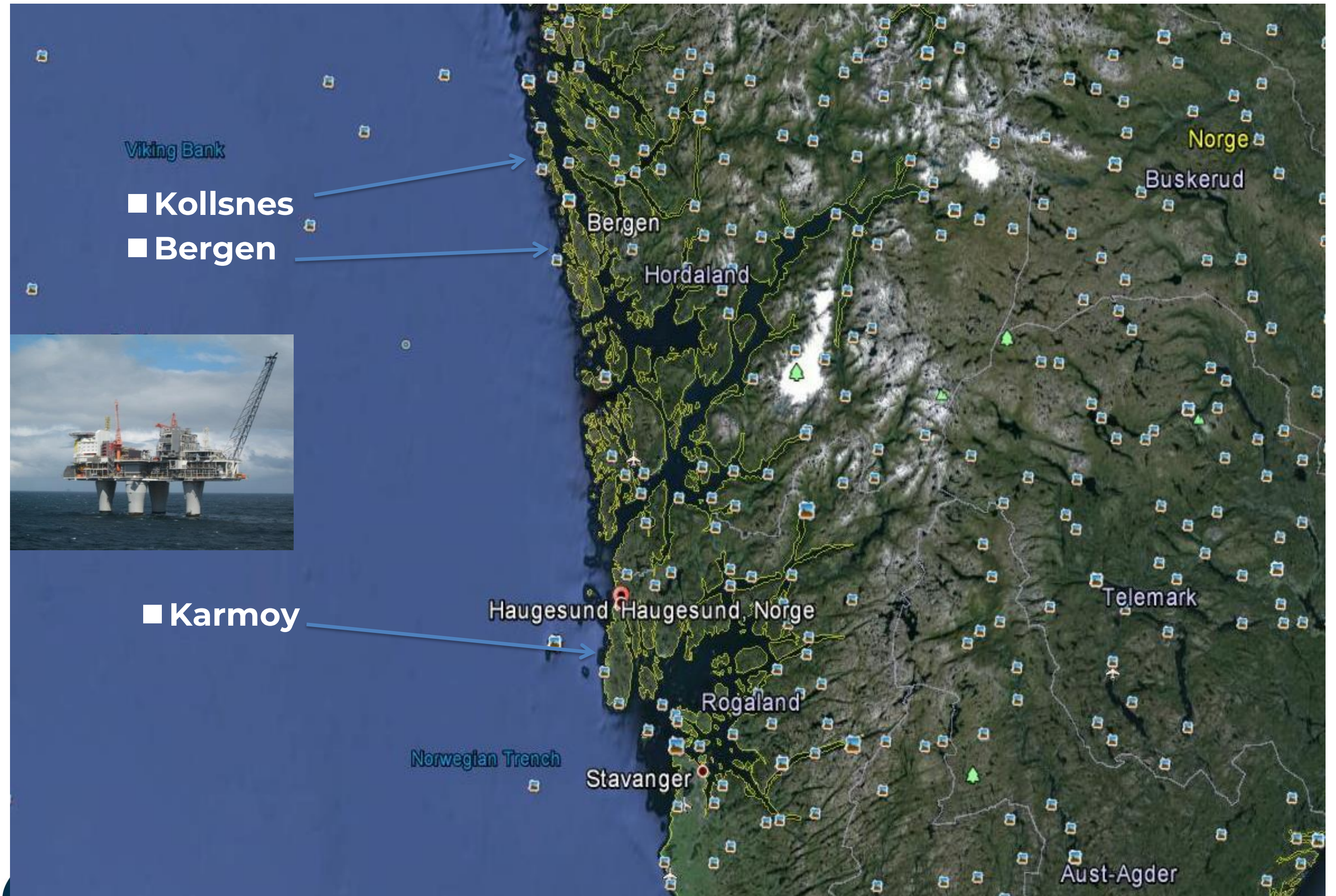
# Gasnor has an important role in the low-emission society

- **LNG**  
Gasnor has contributed to huge cut in emissions in Norway. Deliver LNG to industry, skips and ferries
- **Biogas**  
Supplying buses in Bergen and Trondheim with biogas  
Cooperating in establishing new production sites
- **Hydrogen**  
Have an ongoing project seeking to establish a value chain for liquefied H<sub>2</sub> in cooperation with Norwegian energy companies  
Realization depending on contribution from government and contract for supplying H<sub>2</sub> powered ferry
- **Small scale LNG projects in general**





# Main Locations







# Gasnor pipeline system

Kopervik, Norge



**Gasnor LNG production Kollsnes.  
Gas from the Troll field**

**Two separate trains**

**Train 1: Startup 2004 40 kt/year**

**Train 2: Startup 2007 Capacity 80  
kt/year**

**Distribution mainly by ship, but also  
trucks**





# 24 LNG terminals serving the Norwegian market



Foc





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# Pioneer Knutsen

Bunkering Iona

**Pioneer Knutsen (1100 m<sup>3</sup>) was originally built as an LNG carrier but has been now been converted to Ship to Ship bunkering operations as well.**





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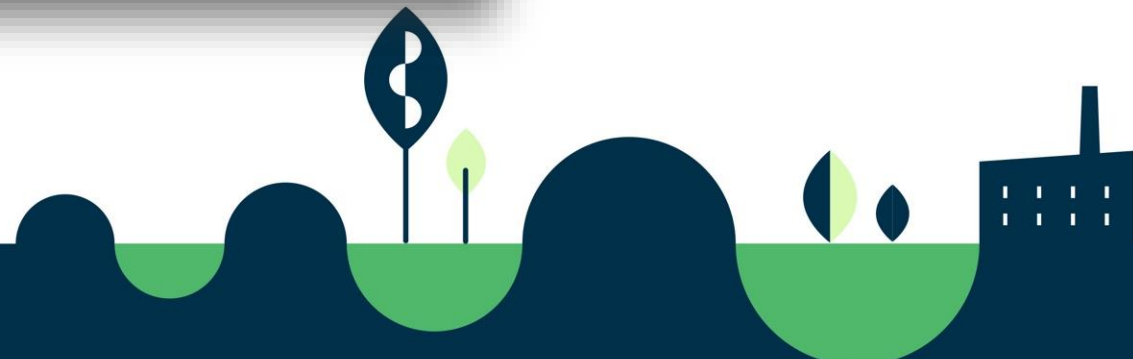
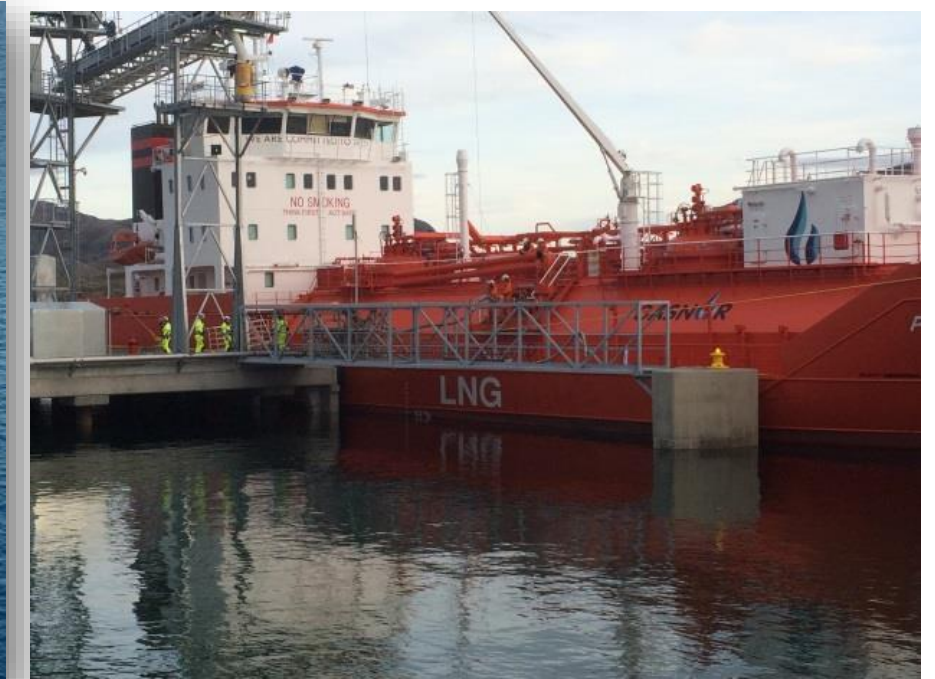
## Bergen LNG

Loading at Kollsnes production site facility

**Bergen LNG is our new bunkering vessel.  
Capacity of 800 m<sup>3</sup> LNG  
Operating mainly in the Bergen area**



# LNG Hybrid, Cost effective low-emission technology, ready for further development to renewable fuels.





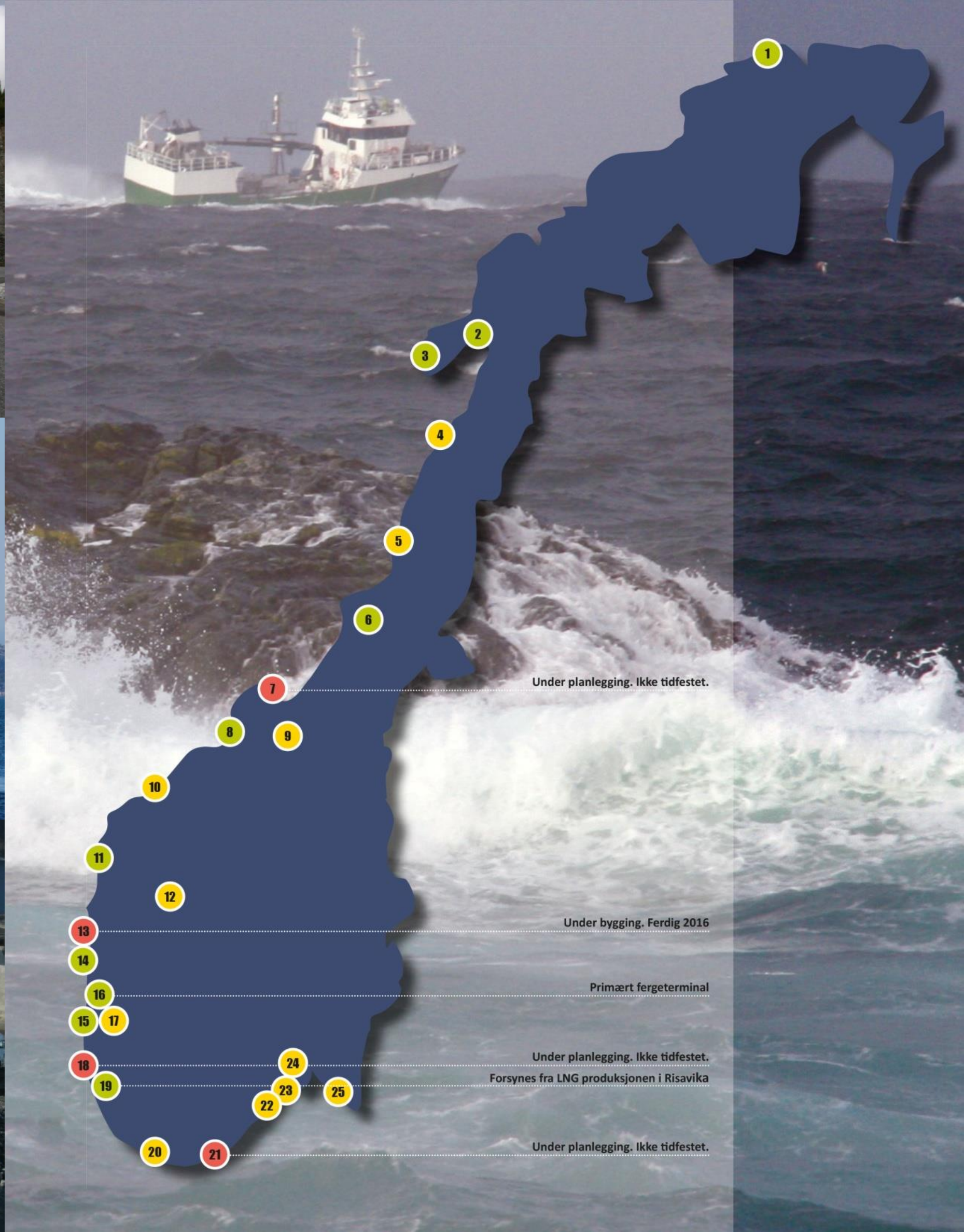
# Selvåg Senior





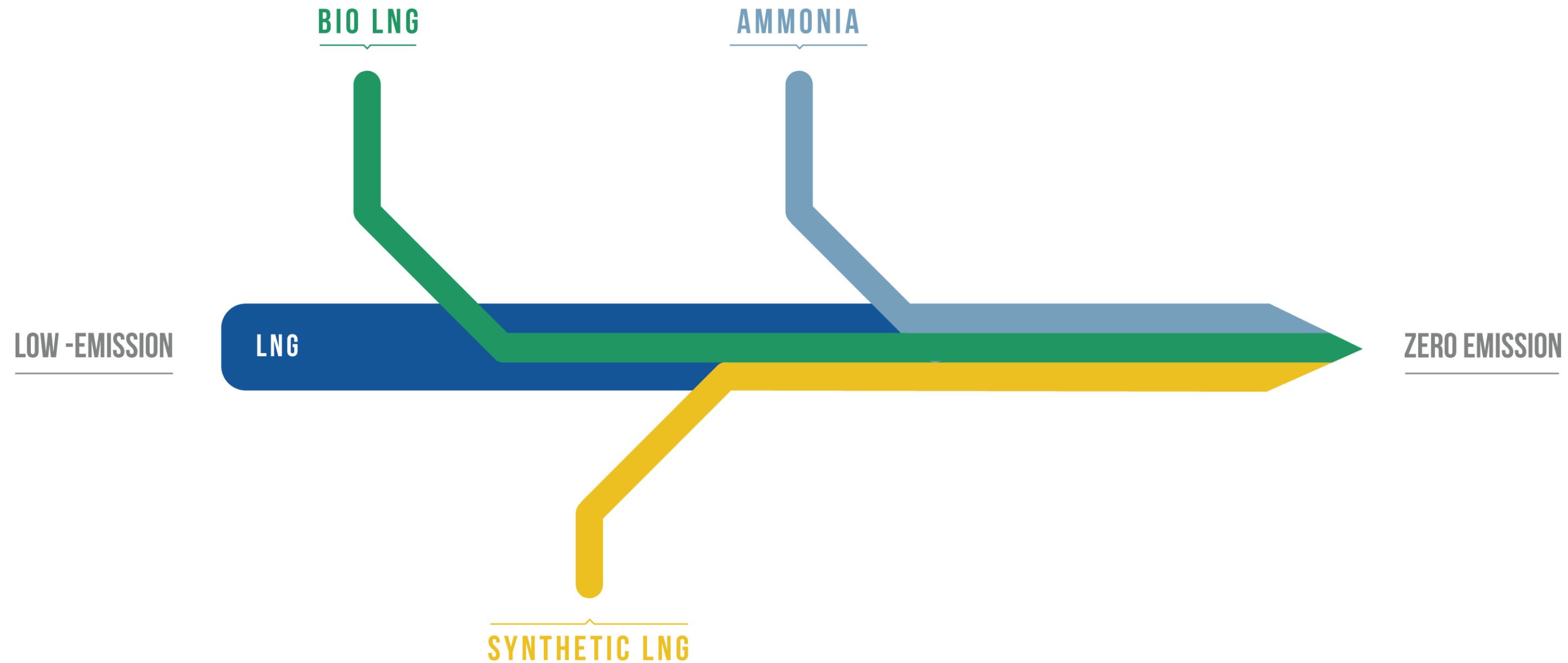
**Well  
established  
distribution  
system**

**Flexible  
Effective  
Safe**





# Decarbonisation is a journey – it begins with LNG



LNG, LBG (liquefied biogas) and Synthetic LNG can be blended seamlessly and use the same infrastructure and tanks/engines on board. For Ammonia, adjustments must be made in the engine.

LNG is not an obstacle for zero emission solutions – it is a catalyst.





