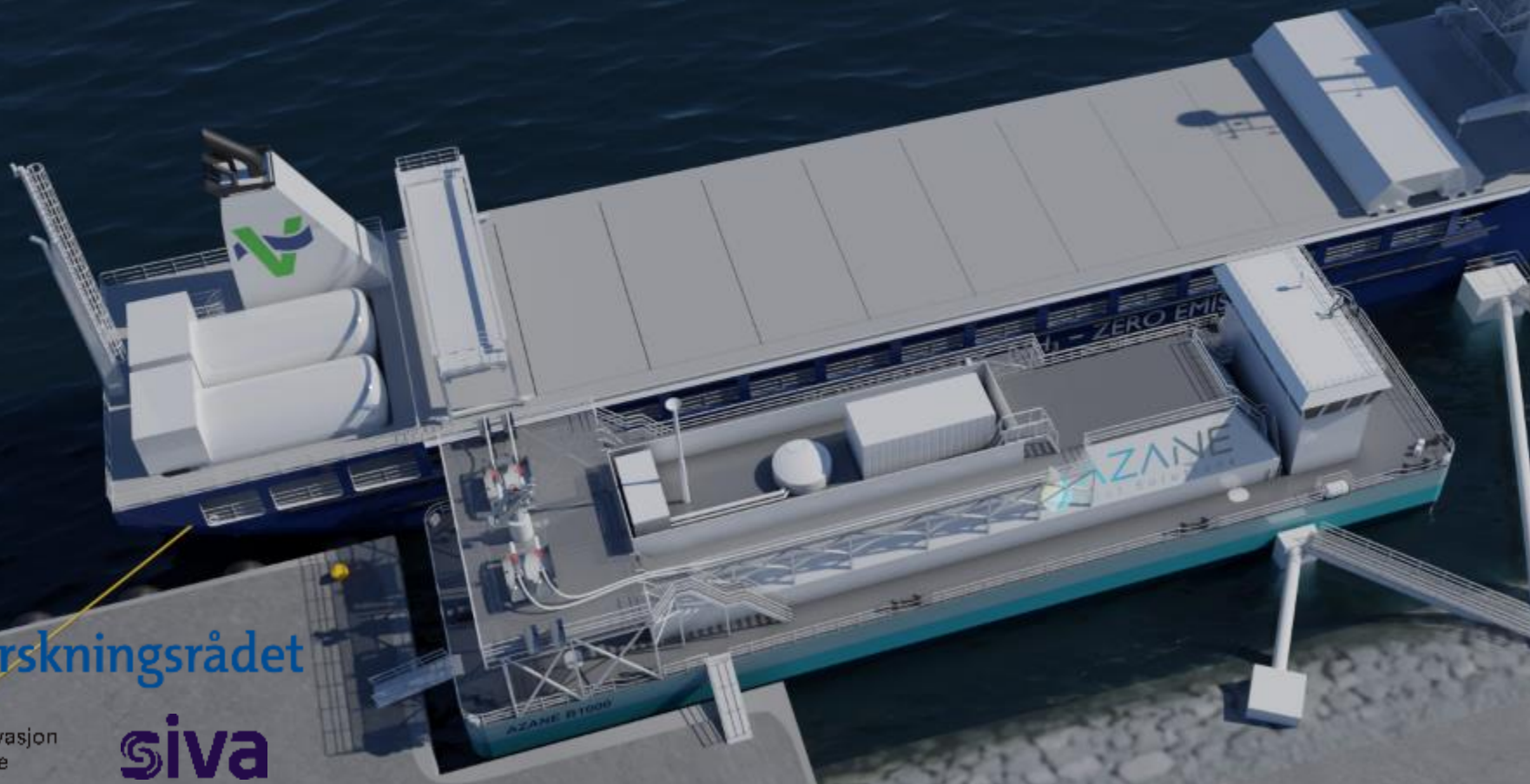


NORWEGIAN BUNKERING NETWORK FOR AMMONIA


OHC Webinar, 05.03.2024



WORLD'S FIRST AMMONIA FUEL BUNKERING NETWORK



 Forskningsrådet

 Innovasjon Norge

 siva

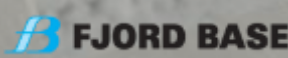
 ECONNECT energy

 ammon MARITIME

 YARA

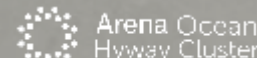
 SINTEF

 GOT

 FJORD BASE

 HYEX SAFETY

 VIRIDIS

 Arena Ocean Hyway Cluster

 TradeWinds
The Global Shipping News Source



Azane wins \$10m of Norway state funding for ammonia terminals project

 The Maritime Executive
INTELLECTUAL CAPITAL FOR LEADERS



World's First Green Ammonia Terminal Receives Large Governmental Grant

Full article available on the Maritime Executive website. For more information, please contact the editorial team at info@maritime-executive.com.

 OFFSHORE ENERGY



BUSINESS & FINANCE
World's 1st green ammonia terminal wins major governmental grant

4 hours ago



AMMONIA BUNKERING NETWORK

SHOWCASING AMMONIA AS A SAFE[RELIABLE AND CARBON FREE FUEL FOR SHIPPING

- Up to 15 tailor-made bunkering terminals planned across Scandinavia
- Azane Fuel Solution will deliver the bunkering terminals and Yara Clean Ammonia will provide the ammonia
- Construction of first terminals expected to start 2024
- Approx. 90MNOK of awarded grants

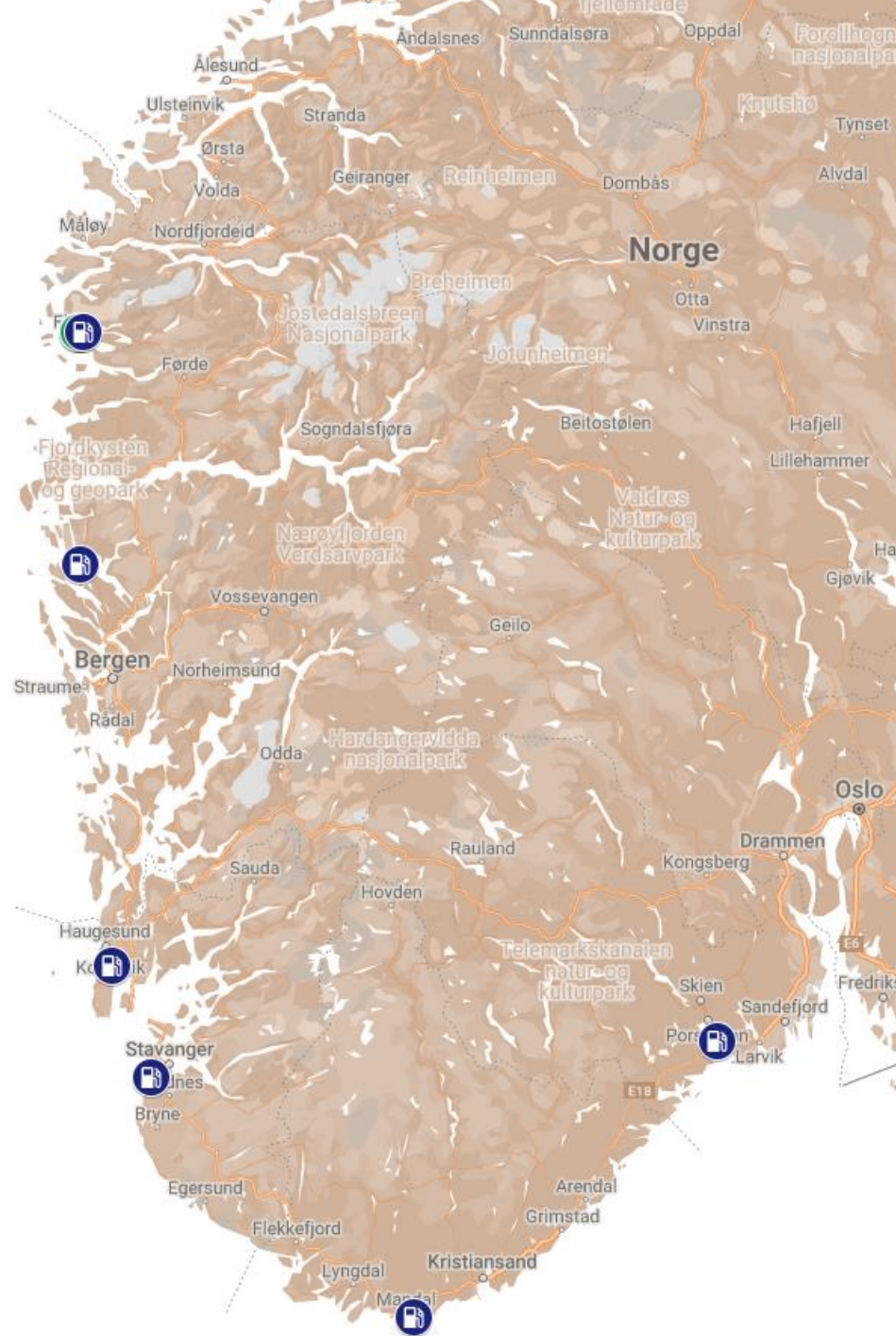
Onshore bunkering terminal



Floating bunkering terminal (barge)



Bunker vessel/ self-propelled barge

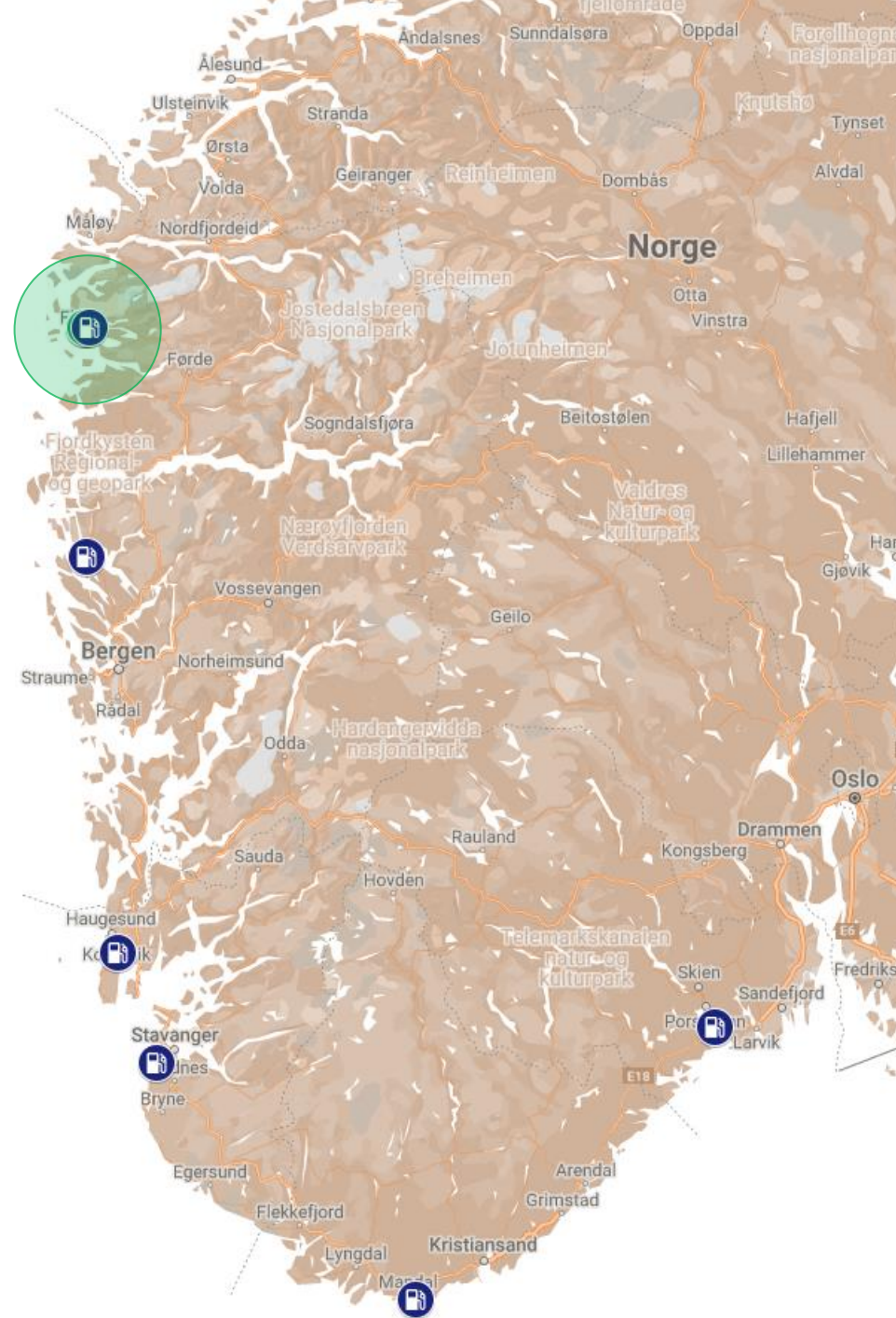


AMMONIA BUNKERING NETWORK

DIFFERENT SOLUTIONS FOR DIFFERENT APPLICATIONS-LOCATIONS

- Solutions are chosen to:
 - Maximize safety
 - Minimize cost
- Local conditions will often determine what solutions are required to meet safety standards
- Demand will determine scale

FJORD BASE



AMMONIA BUNKERING NETWORK FLORØ

BUNKERING TERMINAL AT FJORD BASE –FLORØ

- Development since 2021
- Floating terminal solution selected
- DSB hearing for stage 1 approval completed Dec 2023

TERMINAL SOLUTION

BUNKERING TERMINAL AT FJORD BASE – FLORØ

- Barge built according to IGC code
- Capacity 1000m³ (approx. 650tons)
 - 3-5 OSVs (depending on loading frequency)
- Delivery to terminal mainly by ship
- Bunkering directly barge to ship using flexible hoses





BUNKERING SOLUTIONS

Based on our unique technology, we offer bunkering terminals tailored to the specific location taking into account the expected fuel demand, type of ships that will bunker, the local conditions at the harbour. Our bunkering solutions aim to be the safest, most reliable and efficient bunker terminals on the market.

AMMONIA HANDLING

We can offer the entire range of solutions required to process and handle ammonia as a fuel or a cargo. Our solutions have been developed in close collaboration with ammonia industry experts, end users and location owners.



**THANK YOU FOR
YOUR
ATTENTION!**

