



TOWARDS A ZERO-EMISSION SMART MARINE ECOSYSTEM

Lars Wallerstedt, Managing Director Wärtsilä Sweden AB

Global leader
in sustainable power
for the marine and
energy markets

Turnover
5 174 MEUR

Offices in
+ 90 countries





WÄRTSILÄ
2018

Order intake
6 307 MEUR

Operating
result
577 MEUR




+ 19 000
staff

+ 130
nationalities



ENABLING SUSTAINABLE SOCIETIES WITH SMART TECHNOLOGY

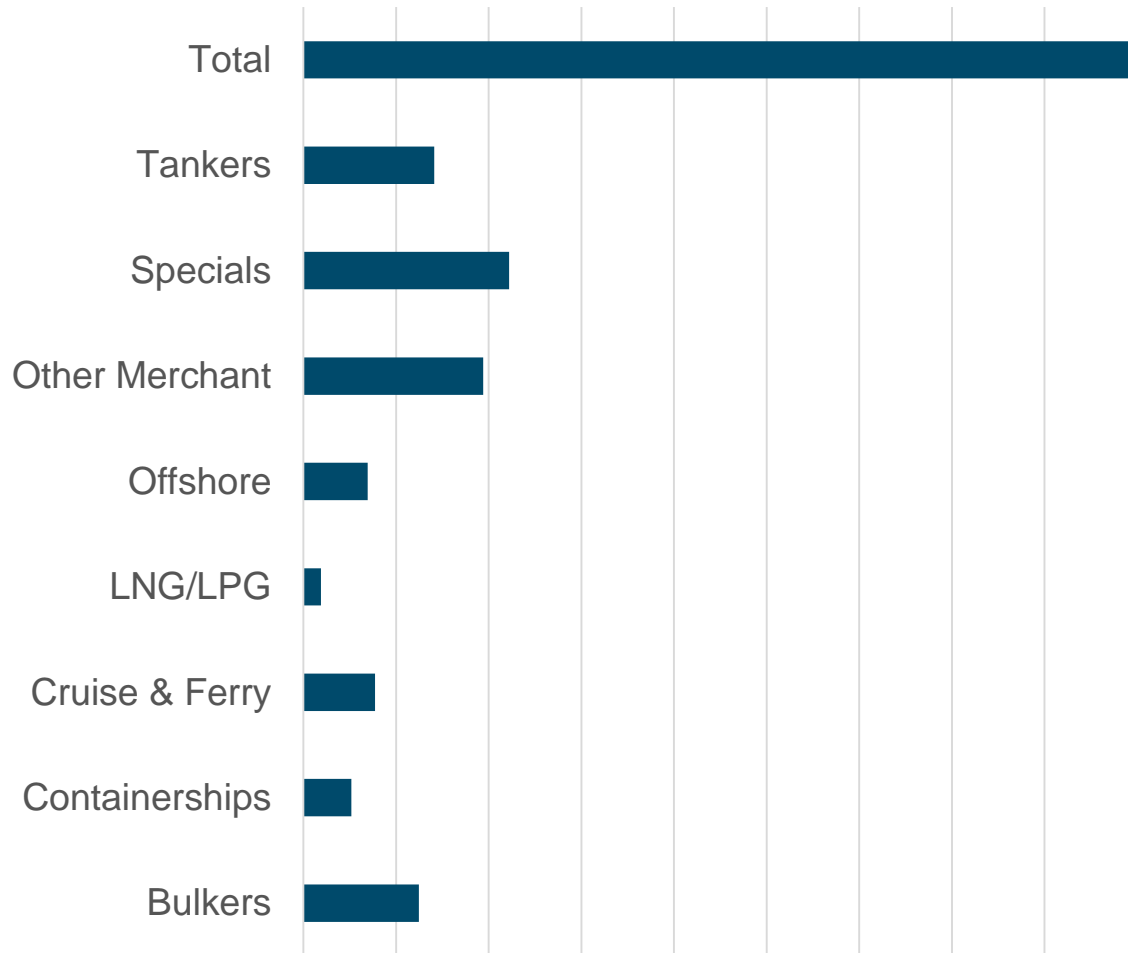
ENERGY BUSINESS

Towards 100% Renewable Energy

MARINE BUSINESS

Smart Marine Ecosystem

MAIN SHIP TYPES



90% of world trade



Global shipping fuel bill around
\$100 BILLION

+ 2 000

Amount of **NEW VESSELS**
built yearly



Main **SHIPYARD** countries:
Japan / China / South Korea



Main ship **OWNER** countries
Greece / Japan / China

Sources: Clarkson's, Wood Mackenzie, Bloomberg, Wärtsilä internal analysis

SHIPPING IS THE WORLD'S MOST EFFICIENT MODE OF TRANSPORTATION



90% WORLD TRADE

BUT... \$30 BN
INEFFICIENCY

GLOBALLY SET INDUSTRY TARGETS

2020

0.5%
SO_x

2030

40%
GHG



2050

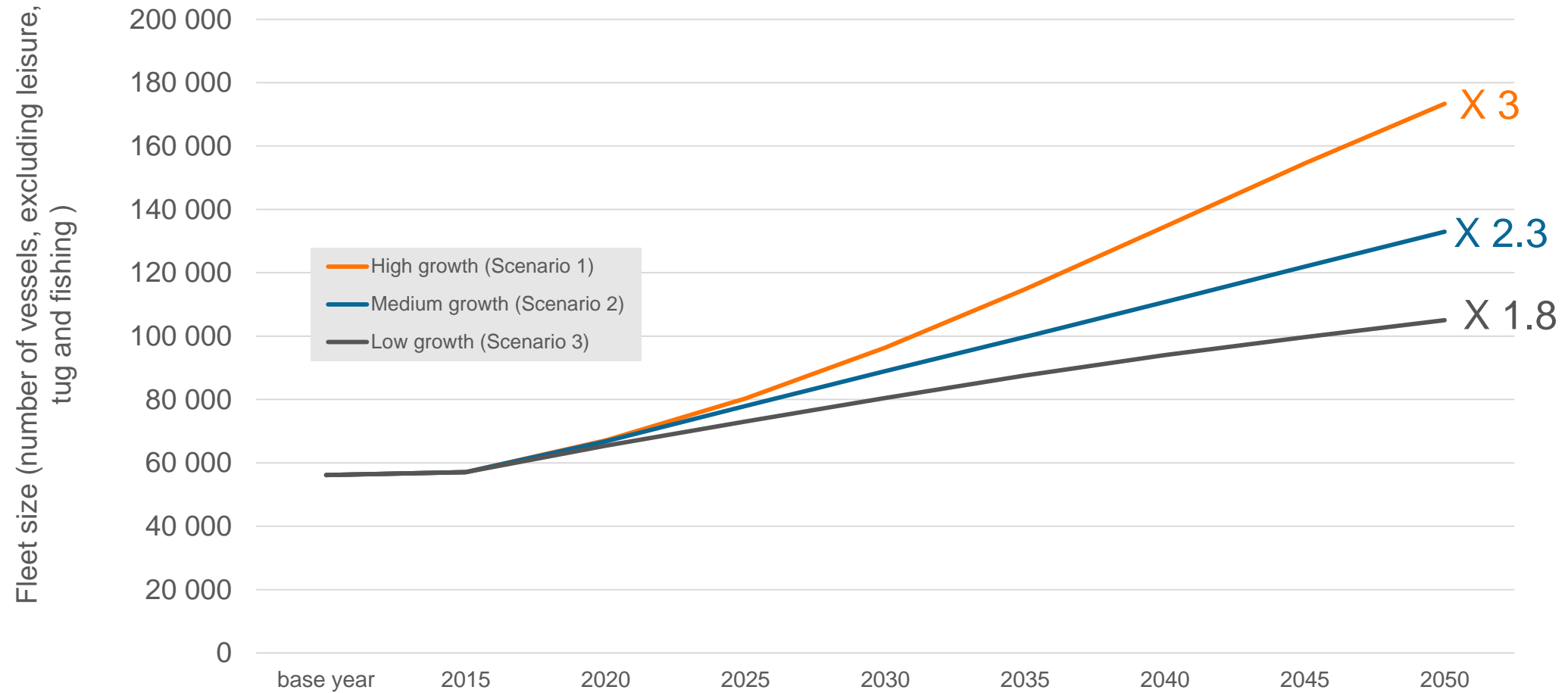
50%
GHG



70%
GHG



GLOBAL FLEET IS SET TO GROW



Source: In-house modeling based on CE-delft data as used by the IMO

**WE CAN'T DO
THIS ALONE.
NOBODY CAN.**





**MARITIME
CAN BE THE
CATALYST
OF A BETTER
TOMORROW**



FUTURE INNOVATION DAY//18

26 April 2018

FUTURE

PBL, performance based partnership

Performance-based partnership agreement with Carnival Corporation provides both mutual incentives and shared risks.

Condition Based Maintenance and Dynamic Maintenance Planning allow to optimize operations and extend overhaul intervals, enabling savings of tens of millions of dollars.



FUTURE INNOVATION DAY//18



INNOVATION

#FutureInnovationDay

PBL, performance based partnership

Performance-based partnership agreement with Carnival Corporation provides both mutual incentives and shared risks.

Condition Based Maintenance and Dynamic Maintenance Planning allow to optimize operations and extend overhaul intervals, enabling savings of tens of millions of dollars.



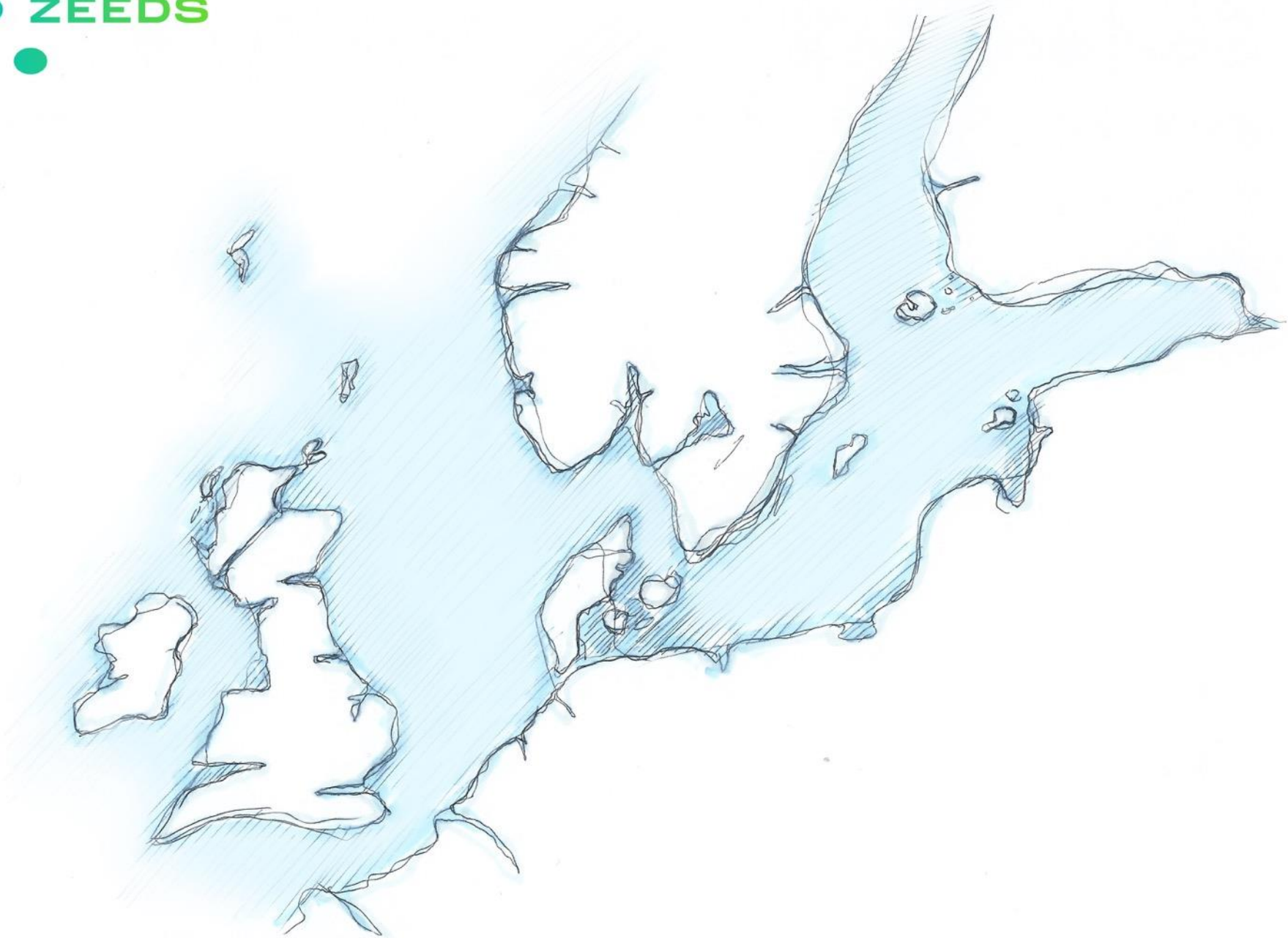




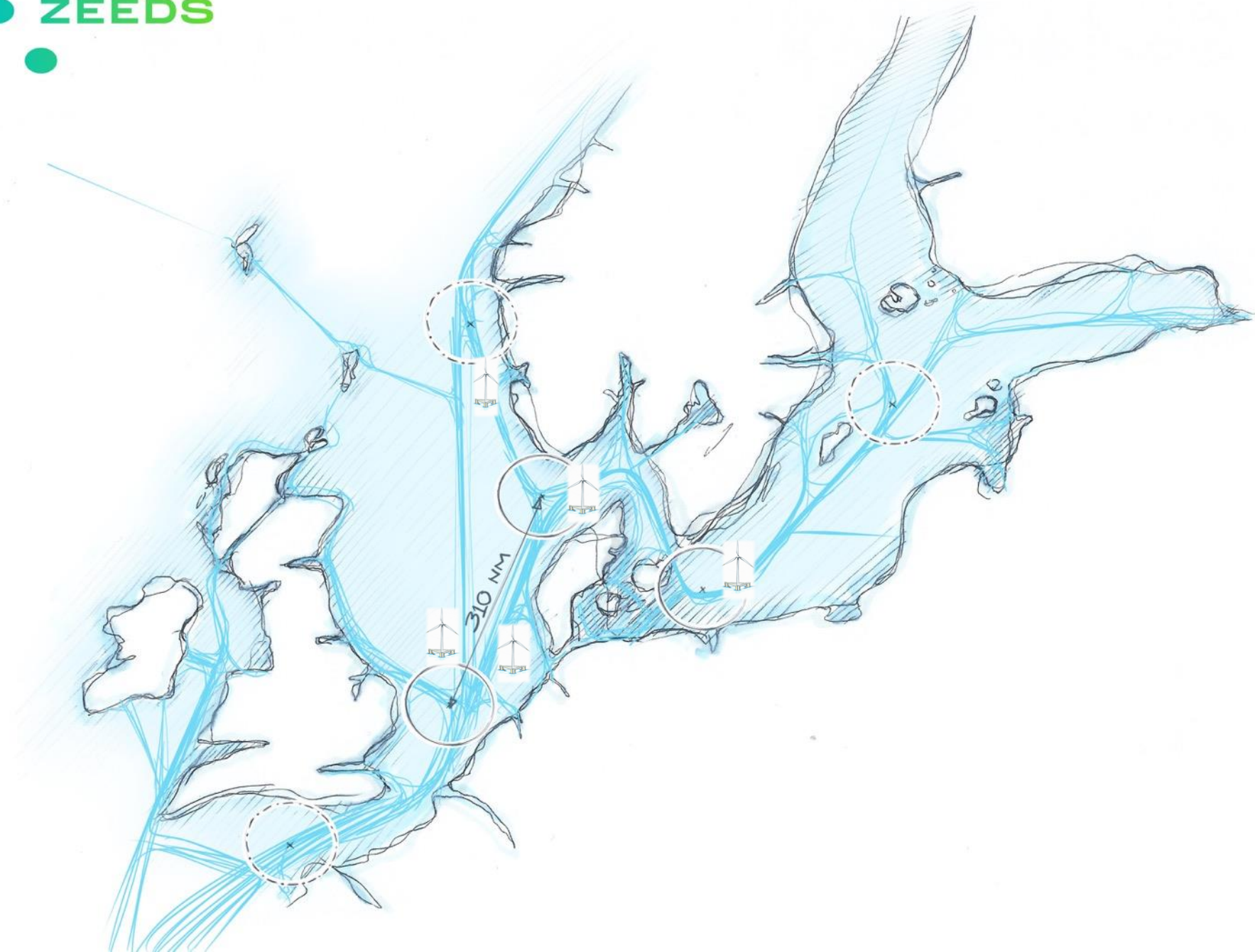


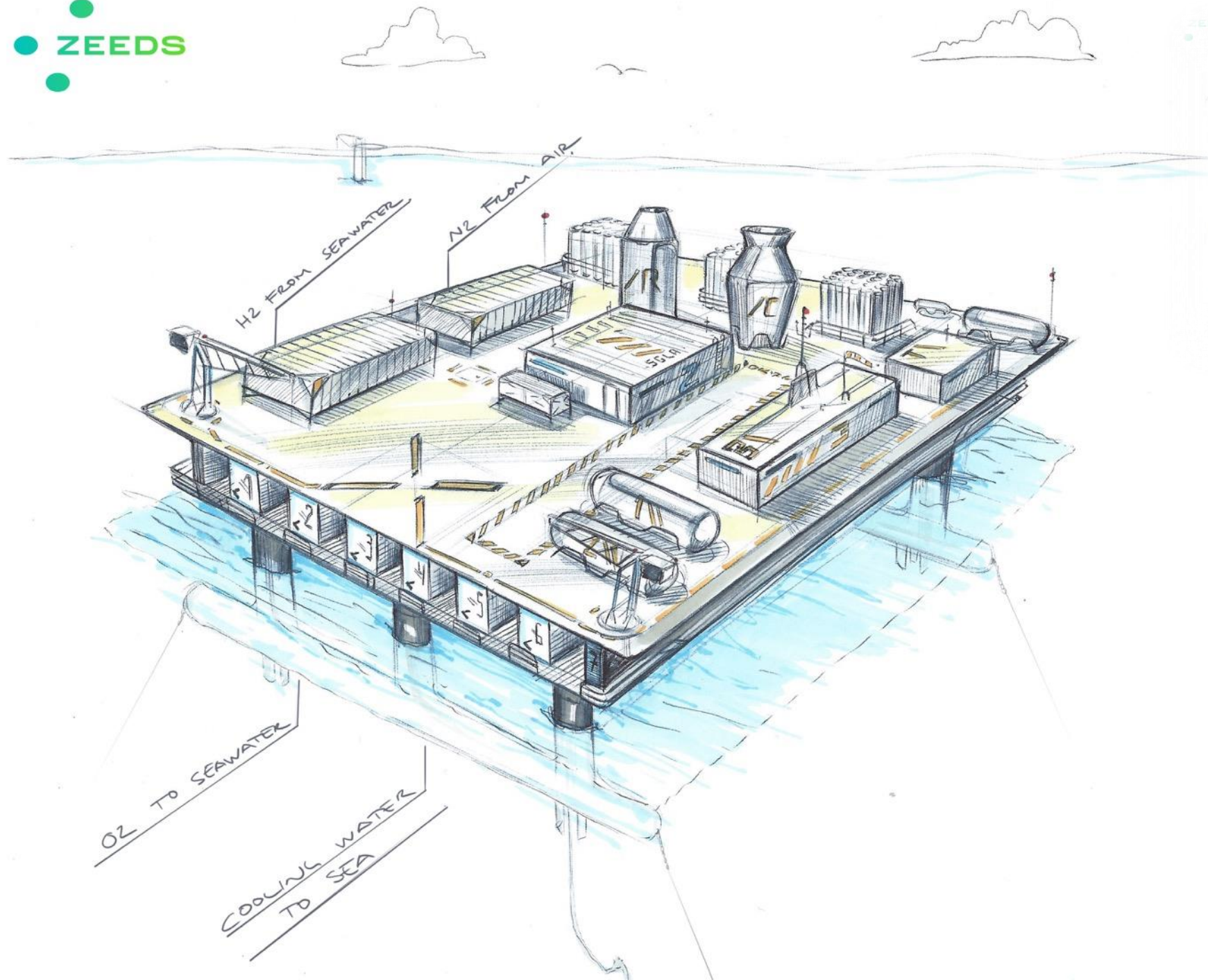
● ● ZEEEDS

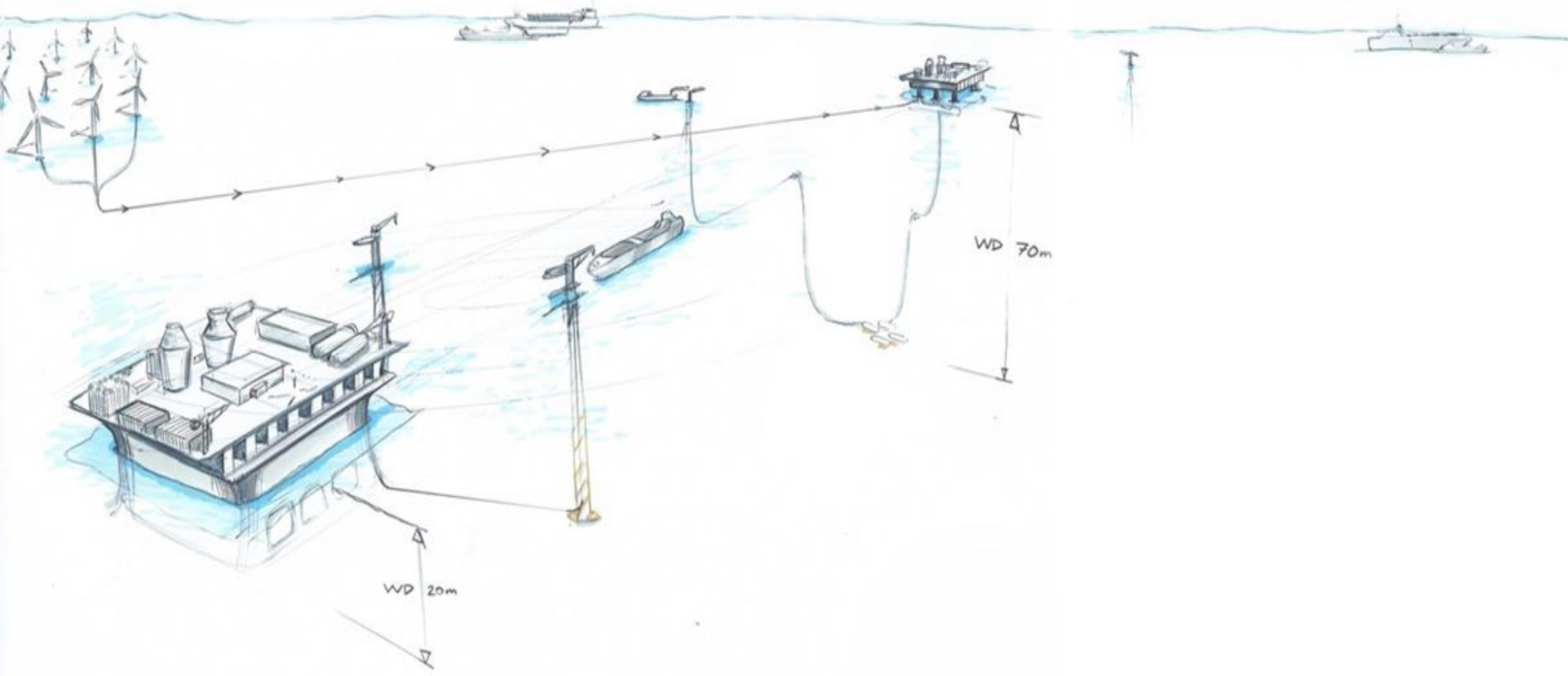
● Zero
Emission
Energy
Distribution
at Sea

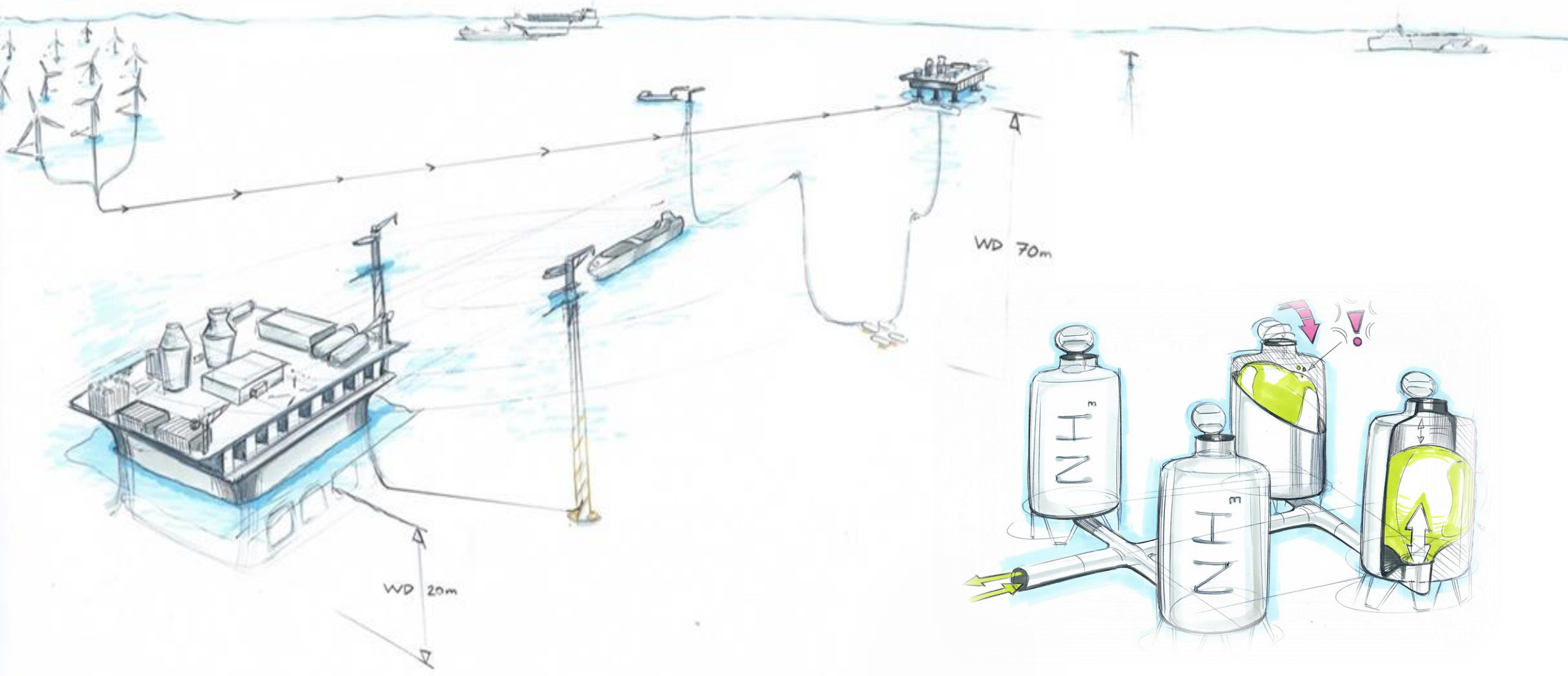


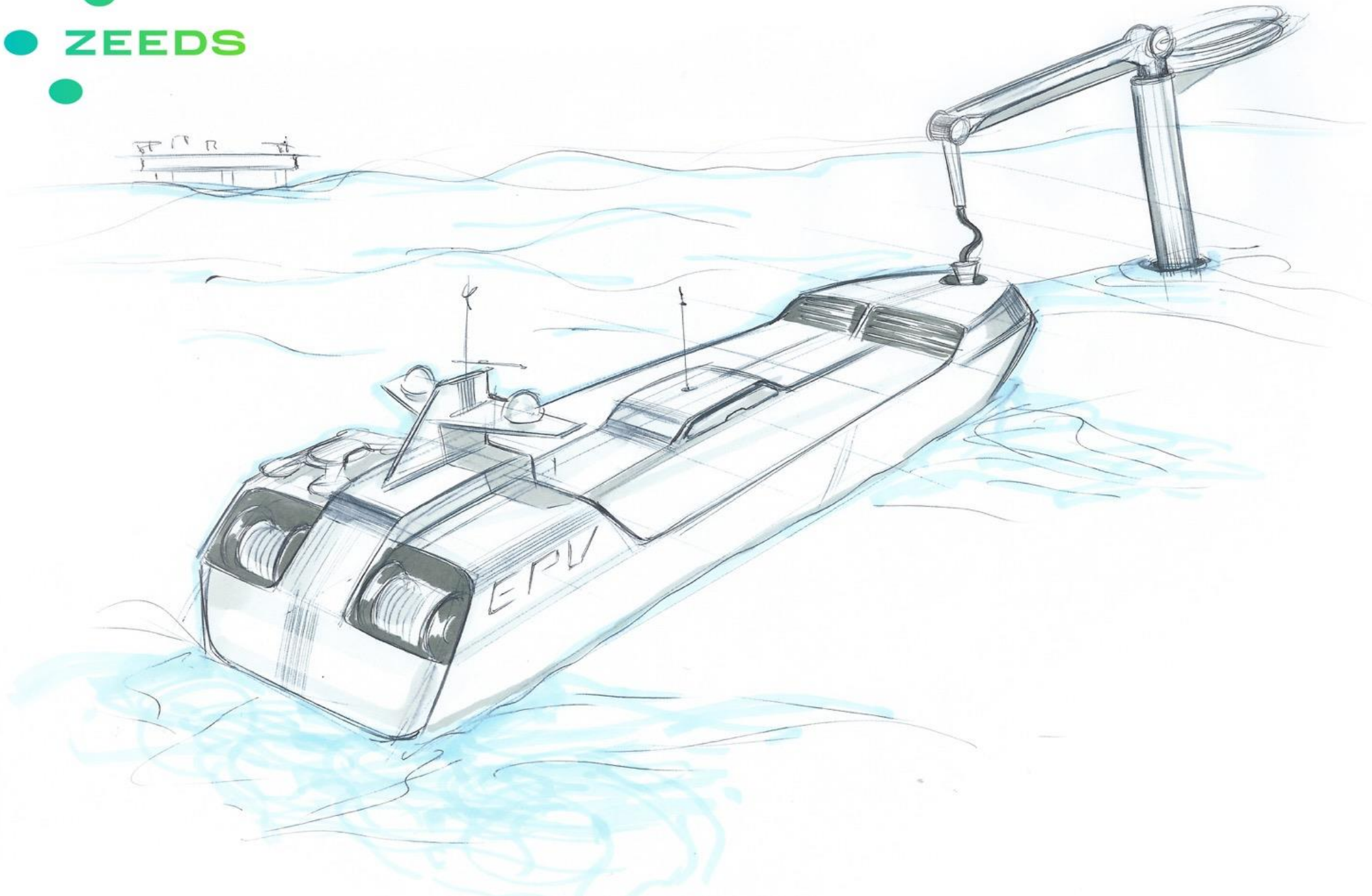


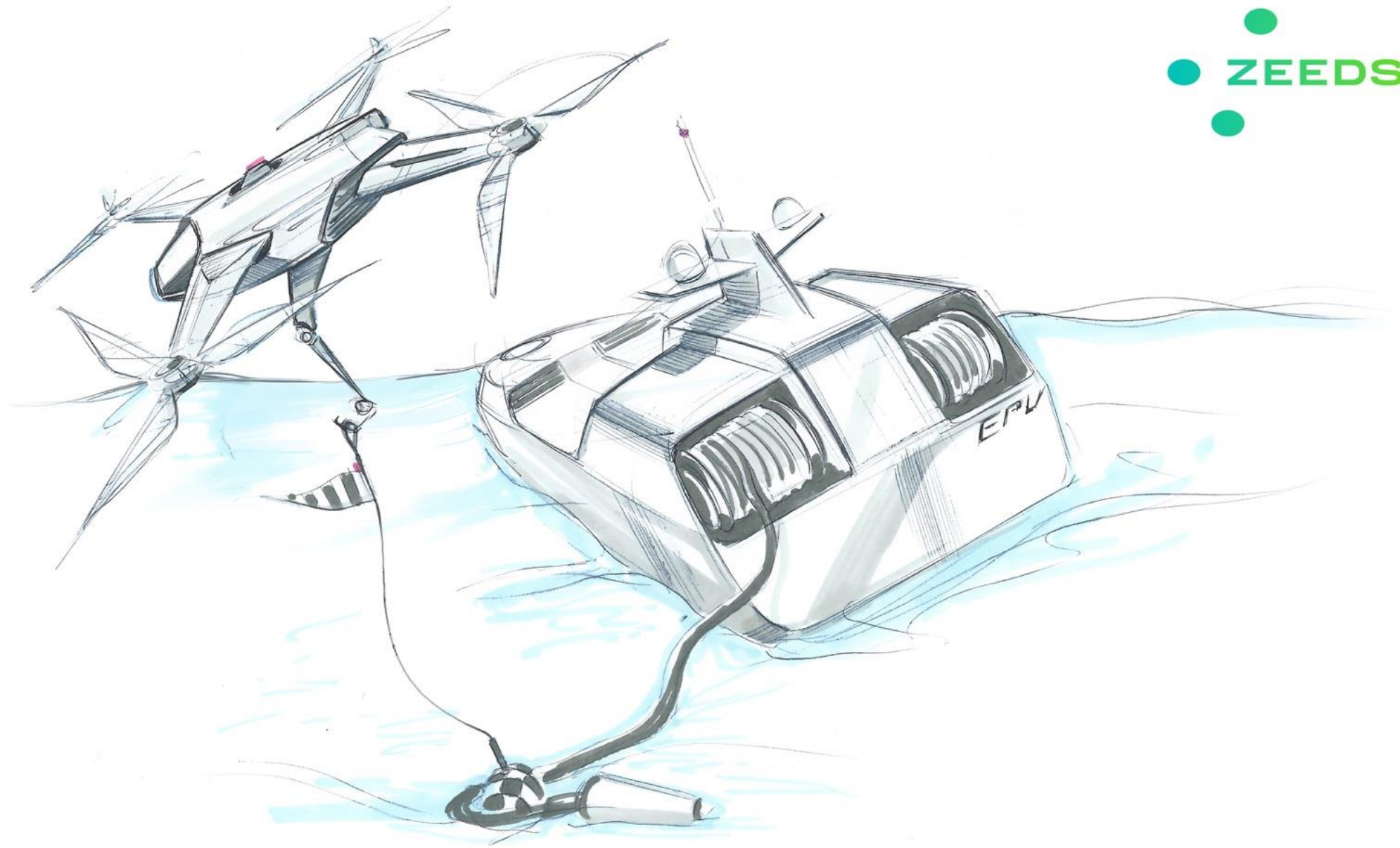




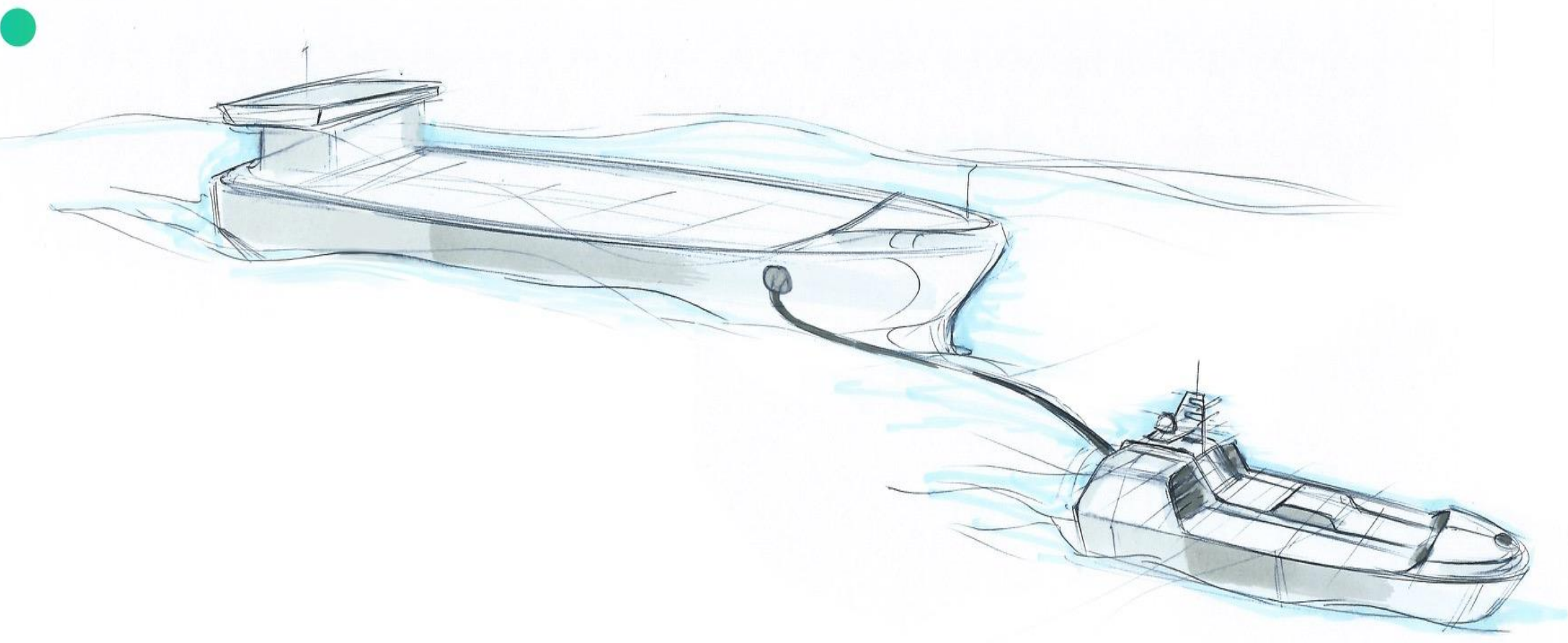


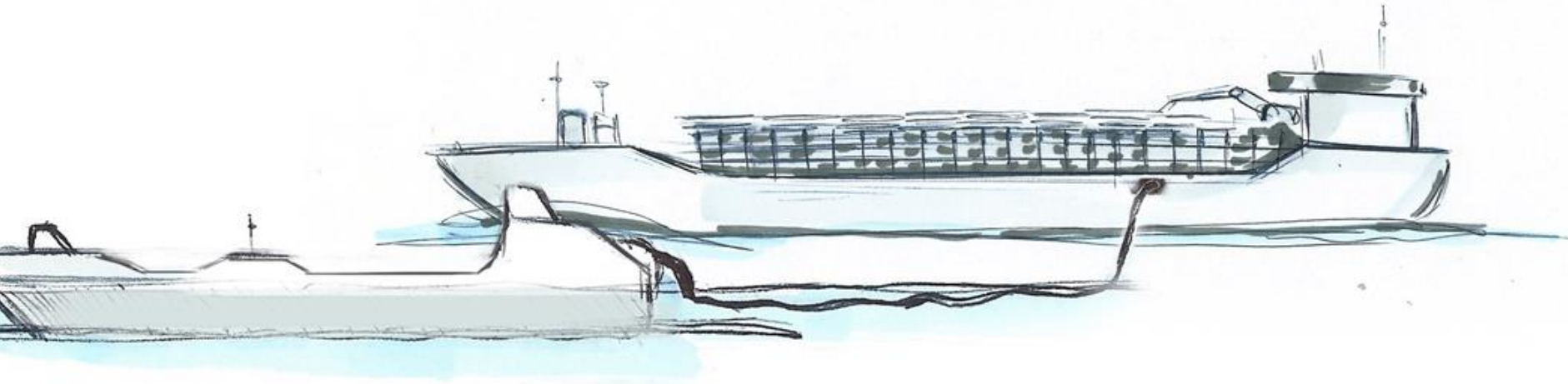
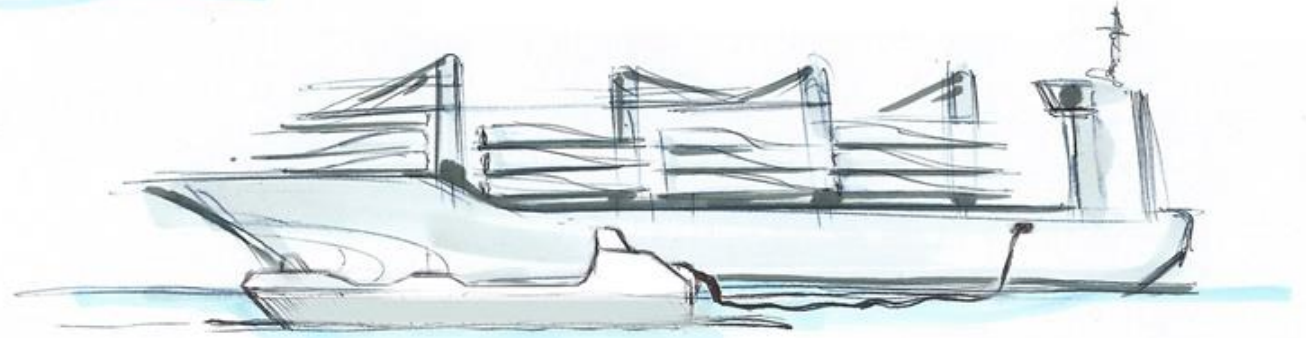
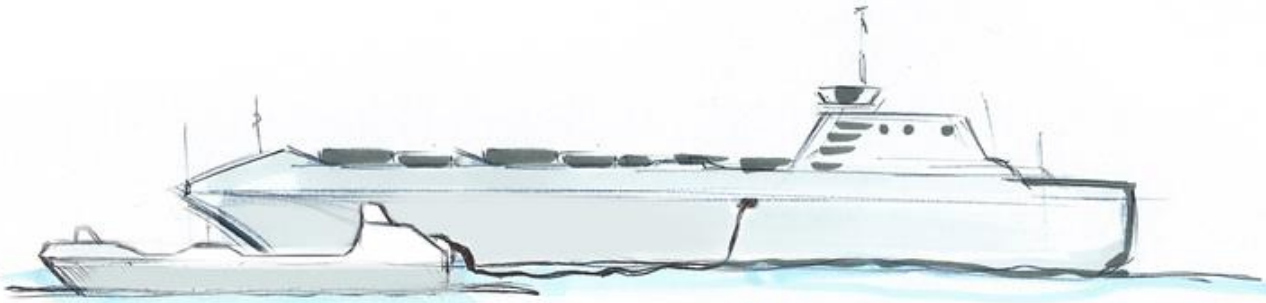




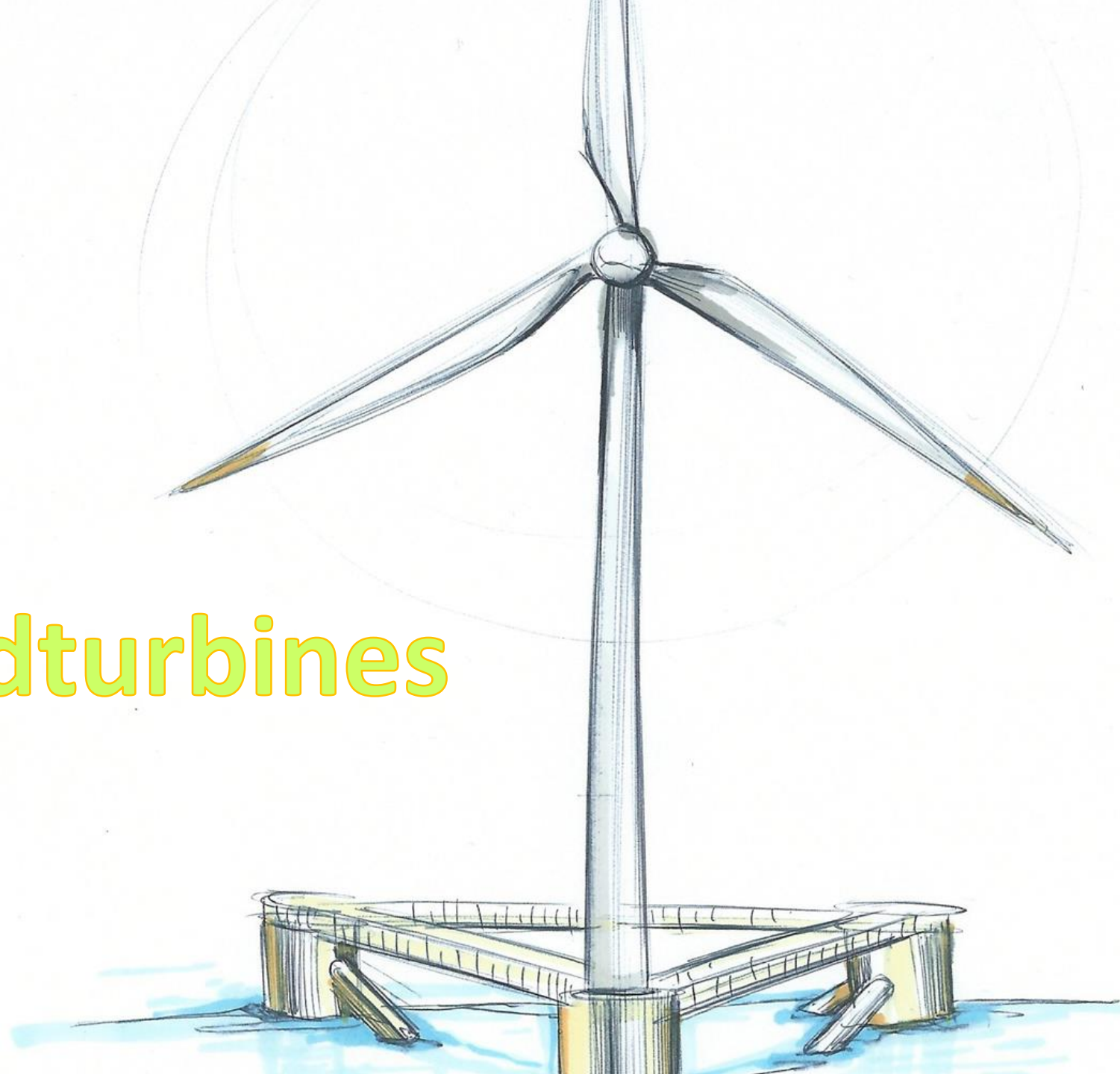


●
ZEEDS





74 Windturbines

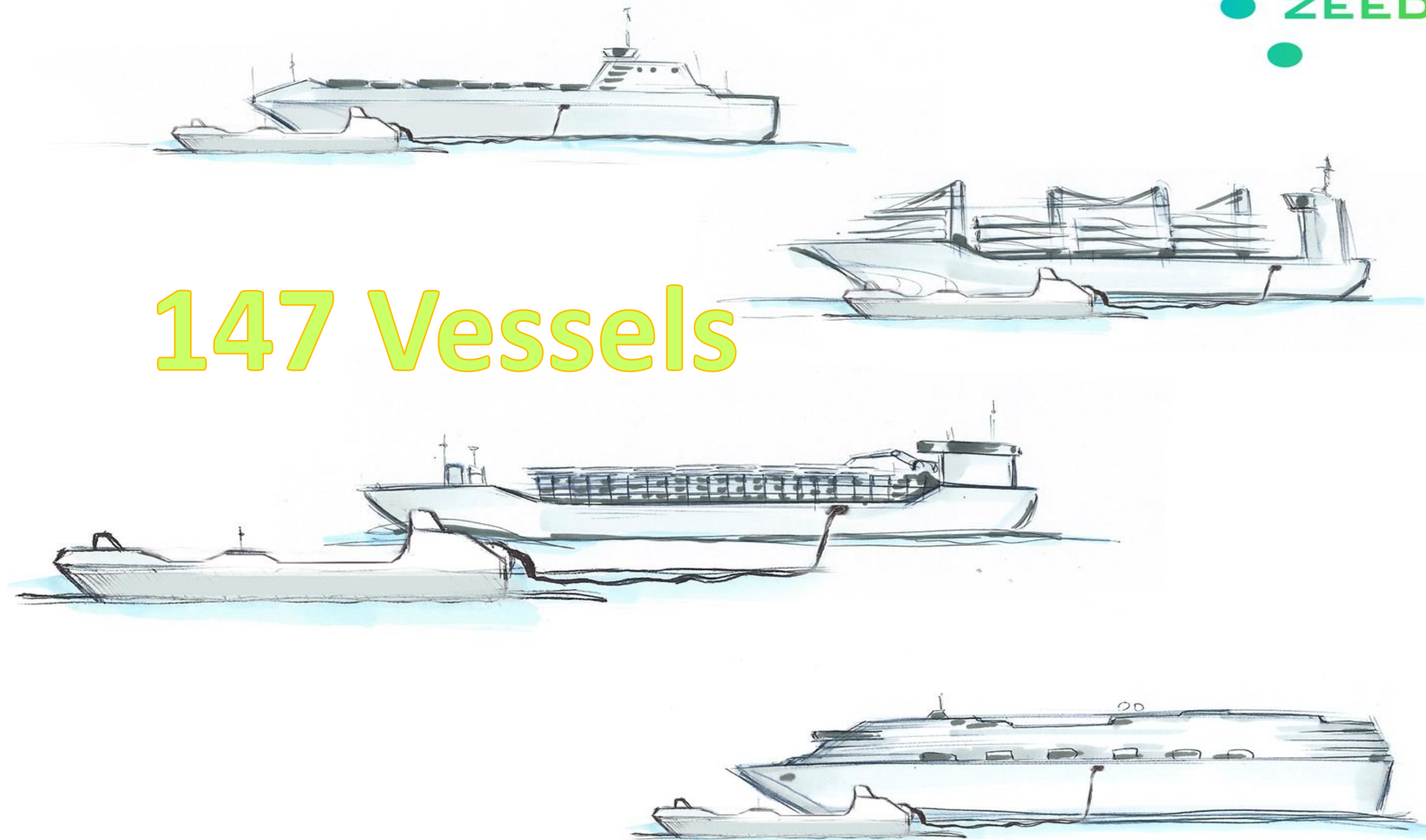


2500m³

Ammonia

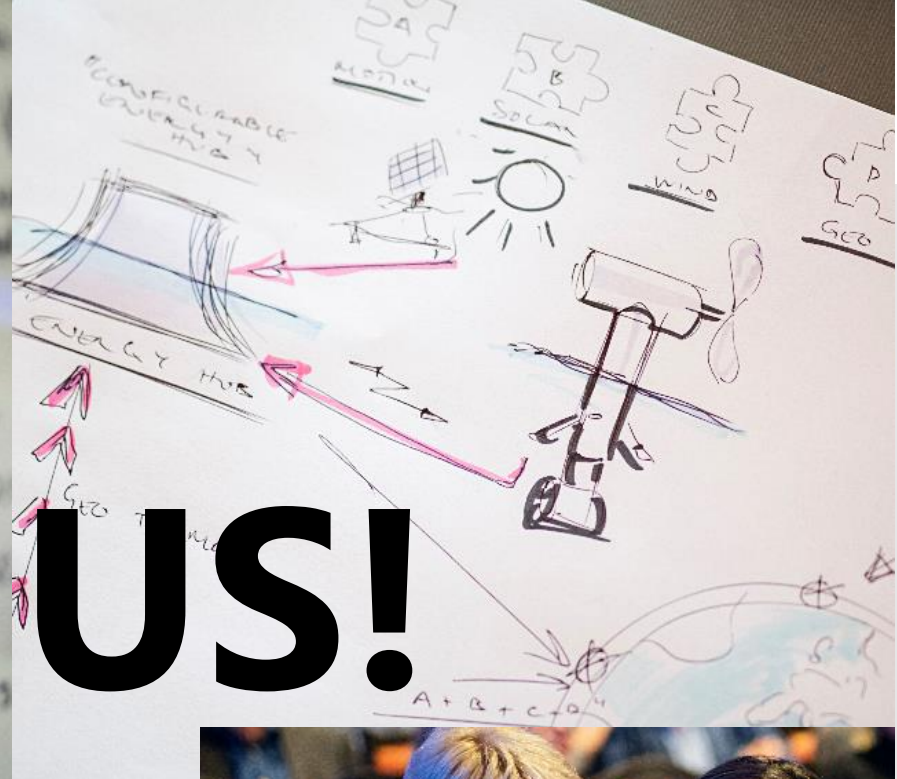


147 Vessels



A hand-drawn map of Europe in light blue ink. Several cities are marked with small circular icons containing a building, representing CO2 emissions. The text "1 000 000 tons CO2" is overlaid in large green letters across the map.

1 000 000 tons CO₂



JOIN US!

