

# Offshore Wind and Gas – a perfect match?

## Aker Offshore Wind

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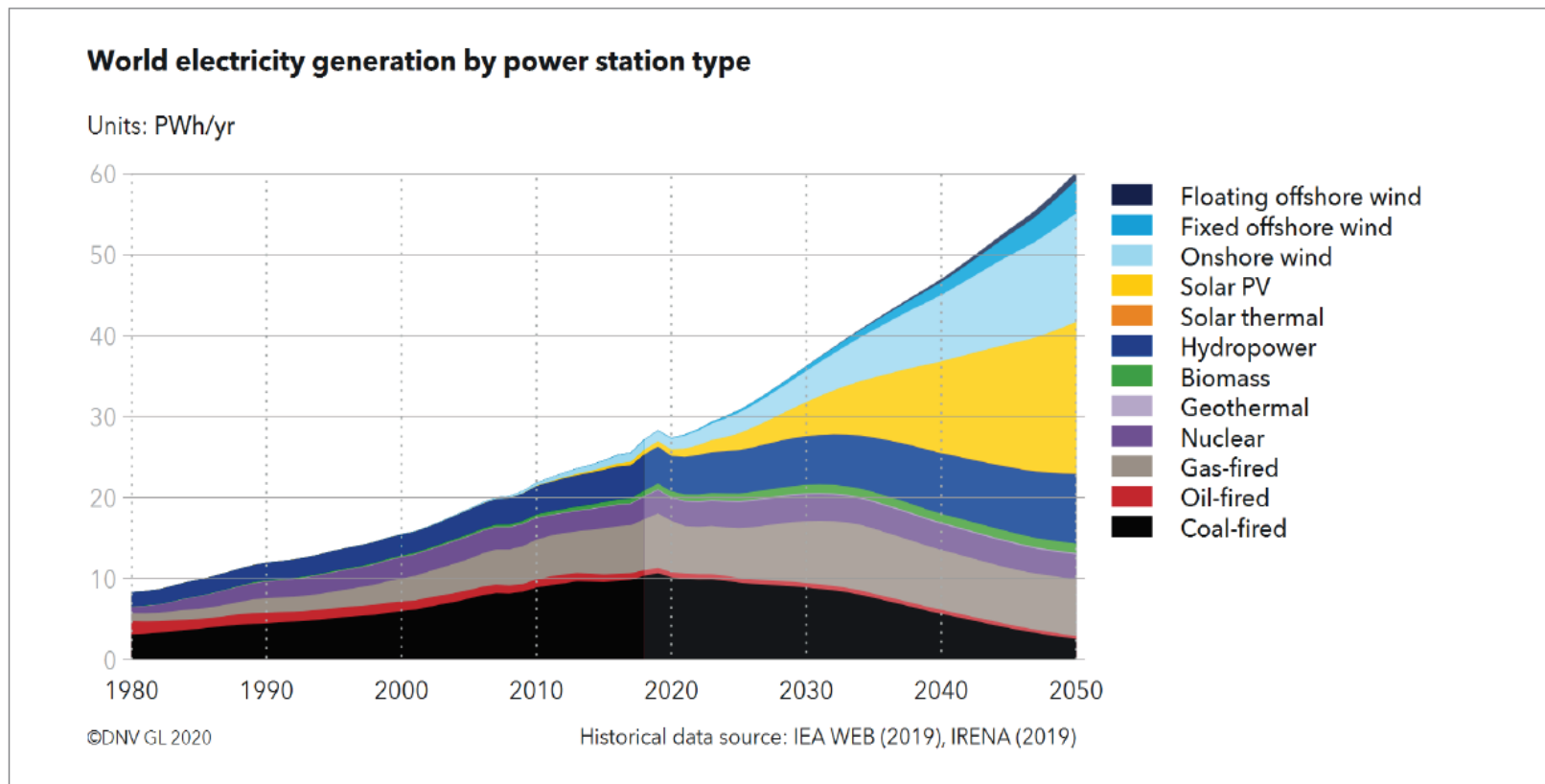
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# The Aker Group

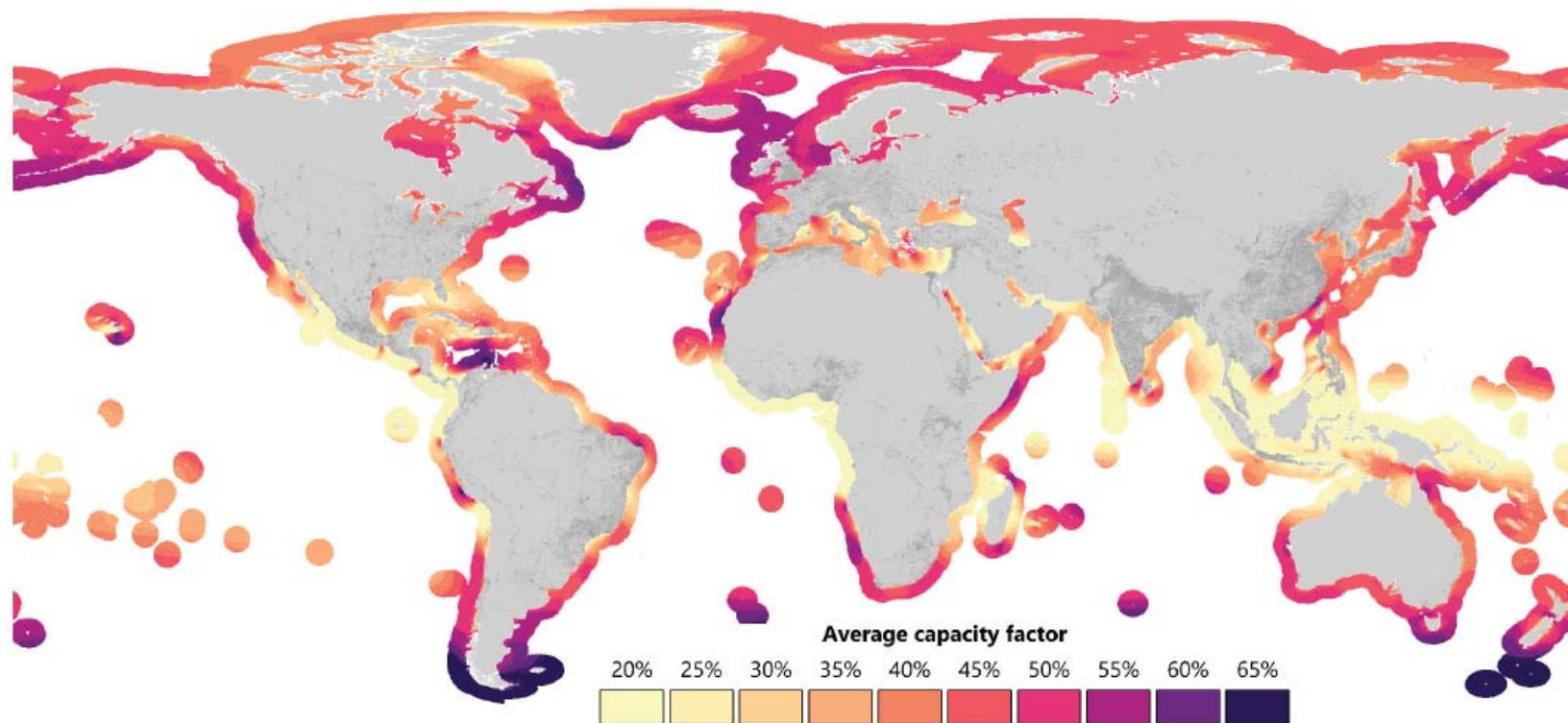


# World electricity mix 2050

## - Wind, Solar and Hydro dominating the power production

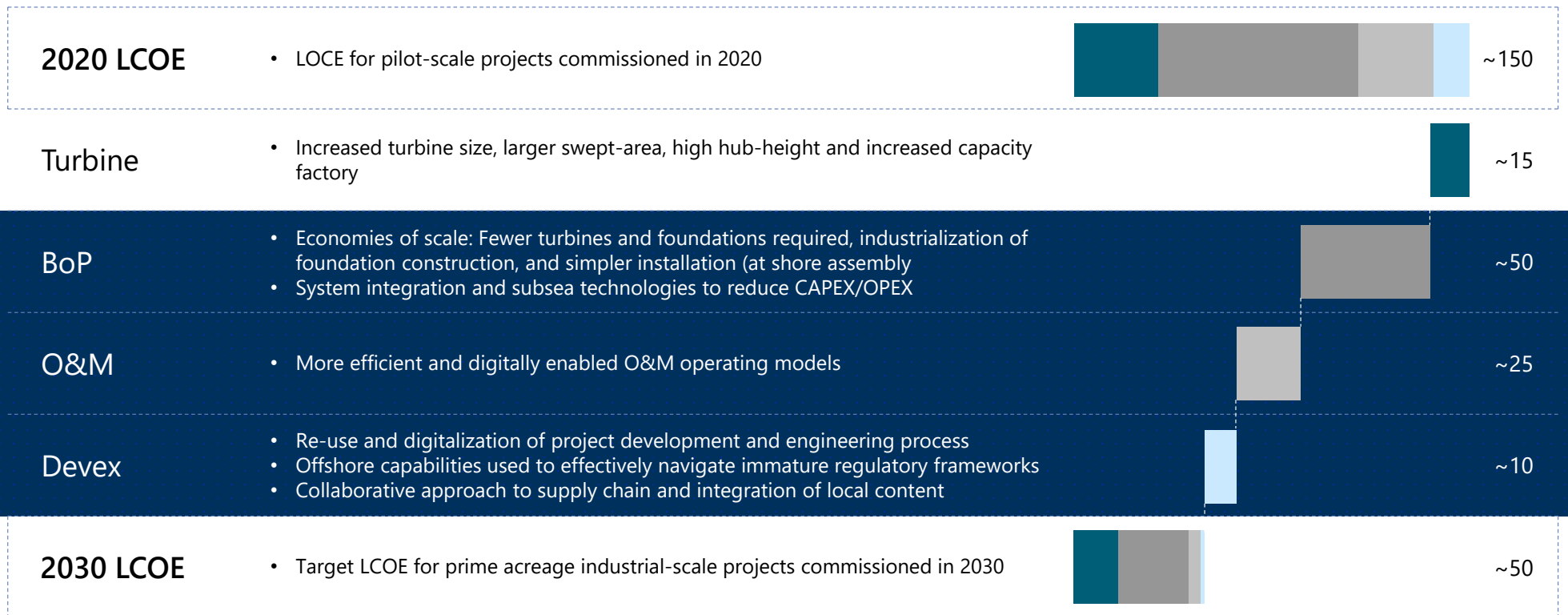


# Global Offshore Wind Resources



**Source: International Energy Agency (IEA)  
IEA Offshore Wind Outlook 2019**

# Drive down cost (LCoE) to ~50 EUR / MWh by 2030



Turbine BoP O&M Devex

Core capabilities

# Wind powered Oil & Gas operations

## Autonomous - Wind for Gas Compression

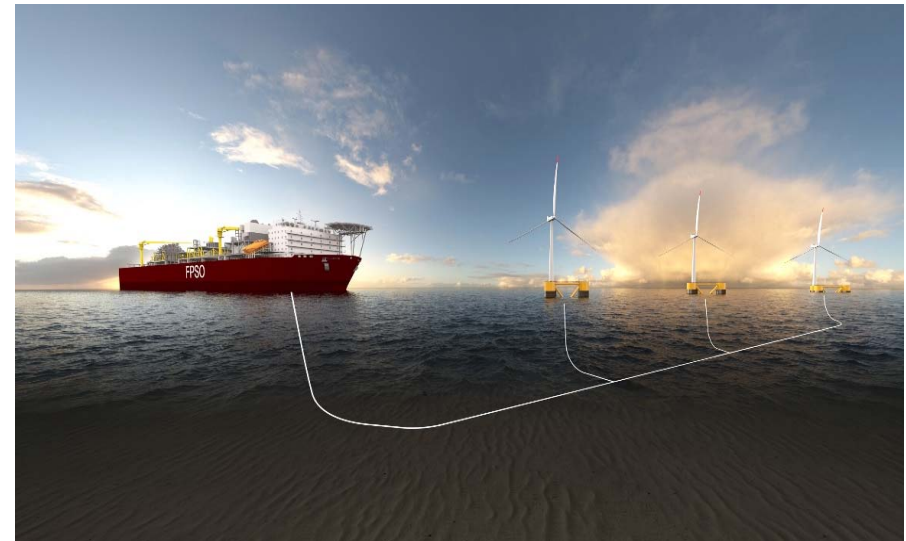
- Subsea compression powered by wind
- Two Manifolds and Separator, Two floating 10/12 MW wind turbines
- Two production lines - condensate and gas
- In case of "no wind" the gas is bypassing the compression at reduced rate



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## Direct Feed - FPSO powered by wind

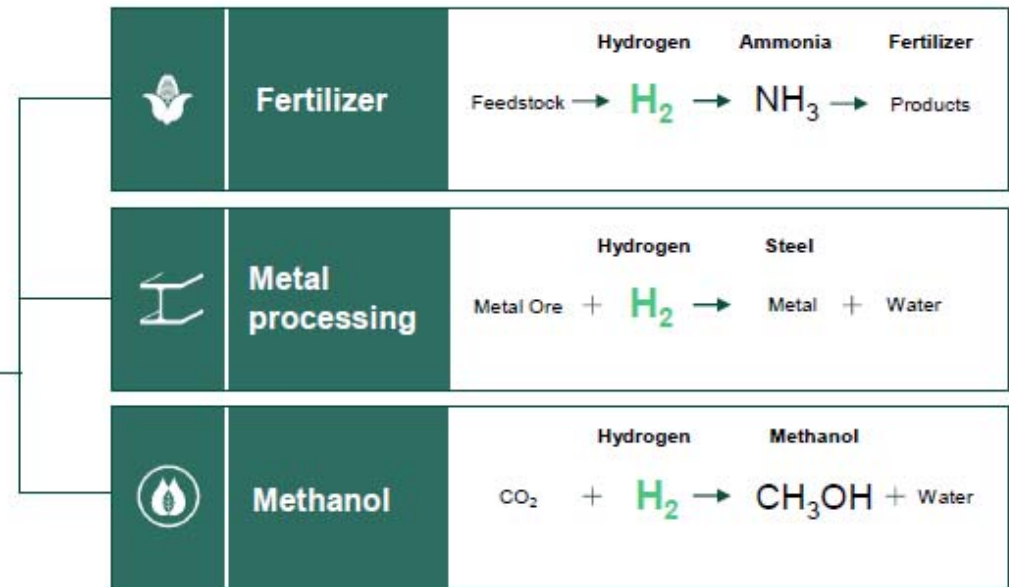
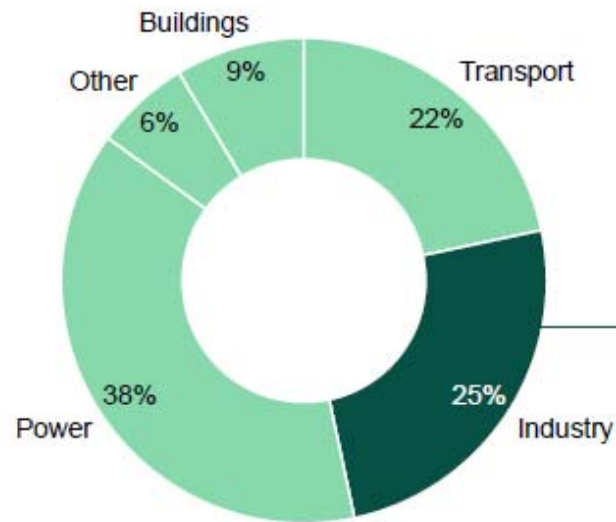
- FPSO powered by 3 floating 12 MW wind turbines
- Powering topside processing equipment and subsea separation / pumping system. Gas turbines kept in partial load to quickly step in if needed due to wind conditions.
- Potential of developing an offshore grid connecting surrounding facilities and adding turbines



Slide 7

# Clean Hydrogen – Essential to decarbonize our economy

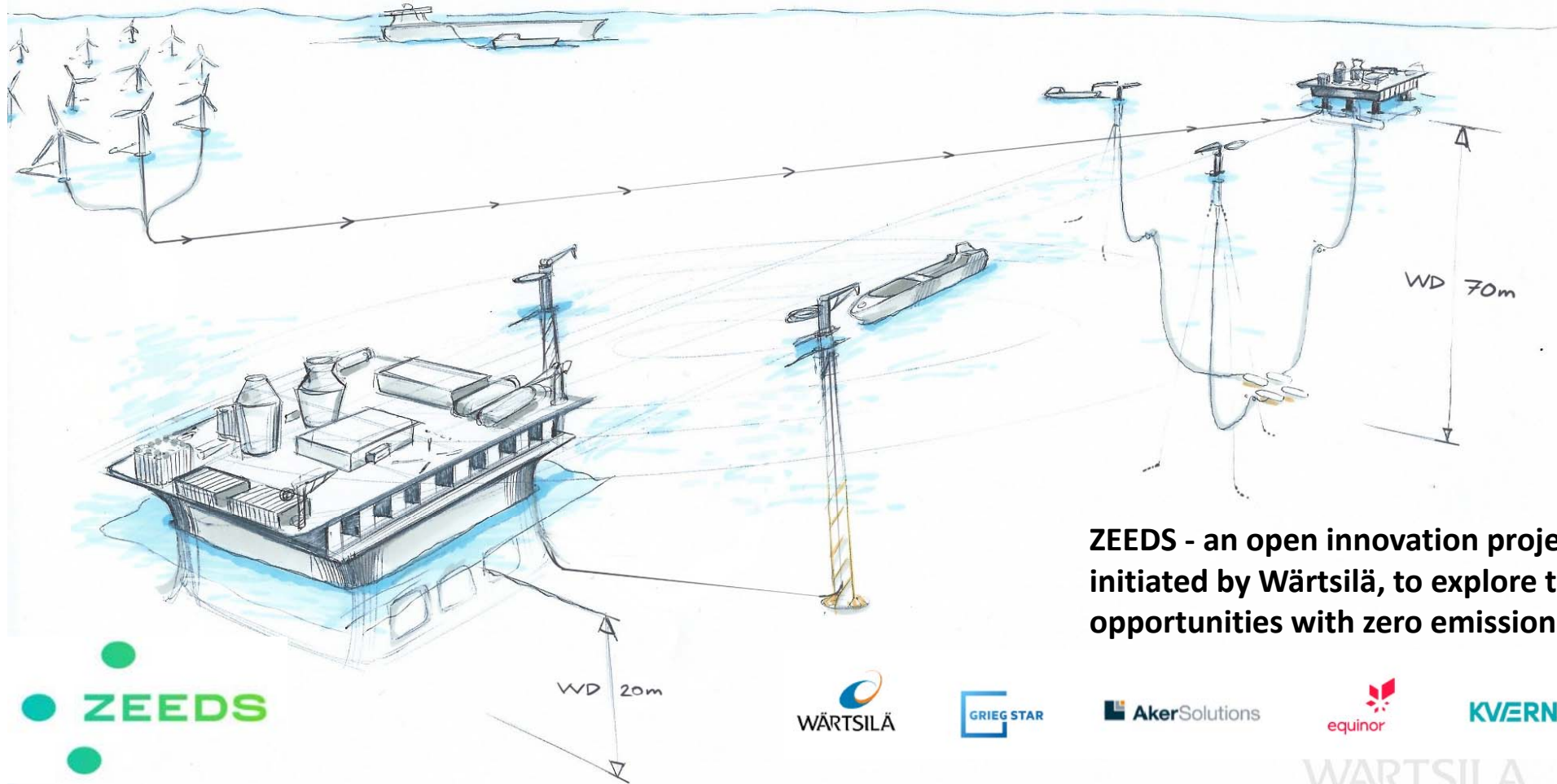
GLOBAL CO<sub>2</sub> EMISSIONS PER SECTOR 2019<sup>(1)</sup>



Clean hydrogen is the only viable alternative for decarbonation of several industry users



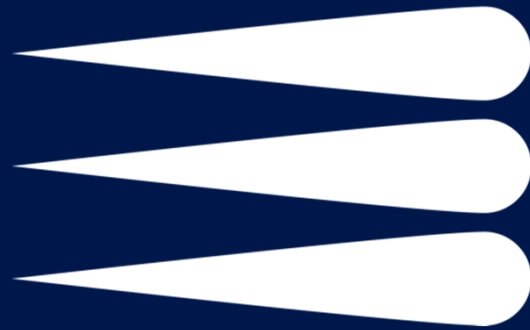
# ZEEDS – Zero Emission Energy Distribution at Sea



**ZEEDS - an open innovation project initiated by Wärtsilä, to explore the opportunities with zero emission shipping**



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