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BLUE MARITIME CLUSTER

GLOBAL CENTRE OF EXPERTISE
NORWAY

THE SHIPBUILDING CLUSTER

THE SHIP OPERATIONS CLUSTER



ÅKP AS | ÅKP BLUE INNOVATION ARENA | GCE BLUE MARITIME CLUSTER |
NCE BLUE LEGASEA | ÅKP STARTUP & SCALEUP | DIGICAT | HOPPID

Welcome to the territory of world-class maritime solutions



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GCE BLUE MARITIME CLUSTER

- 18 ship owners
- 7 naval architects
- 12 shipyards
- 130 technology manufacturers
- 14 000 employees
- €5 bn revenues
 - 52% export
 - *The cluster administration is hosted by ÅKP*



-The Shipbuilders

research - finance - commerce - entrepreneurs - authorities



TRENDS IN THE NORWEGIAN MARKETS

- Main segments:
 - Ocean-based Energy
 - Ocean-based Food
 - Ocean-based Tourism



New Blue Deal

- World's first full scale net zero maritime cluster

BRIM EXPLORER

- 25m sightseeing vessel
- 140 passengers
- Electric (diesel back-up)
- 800 KWh battery package
- 10 hrs electric propulsion (8-12 knts)
- Buildt by Maritime Partner



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NEWBUILD PROGRAM

- World's largest plug-in hybrid ferry
- 2000 pax – 500 cars
- 65 ton battery package - 5 MWh
- 33 % reduction of CO² emissions
- Advanced energy recuperation
- 70 % local suppliers
- «Ship of the Year 2019»
- Built by Ulstein Shipyard



COLOR HYBRID

NEWBUILD PROGRAM



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LE COMMANDANT CHARCOT

- World's first icebreaker hybrid cruiseship
- Polar Class 2
- LNG and Battery Package
- 150 m long
- 270 passengers – 180 crew
- Price: €270 million
- Buildt by VARD



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NEWBUILD PROGRAM

ROALD AMUNDSEN



- Design: Kongsberg Maritime
- Polar Class 6
- Battery Package 1,36-5MWh
- 140 m long
- 530 passengers – 151 crew
- Price: €270 million
- Buildt by GreenYard KLEVEN



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NEWBUILD PROGRAM

REM ENERGY

- Built as PSV by Havyard
- Rebuilt to SOV by Kleven
- Scrubber systems
- Prepared for battery packages (12 MWh) and fuel cells



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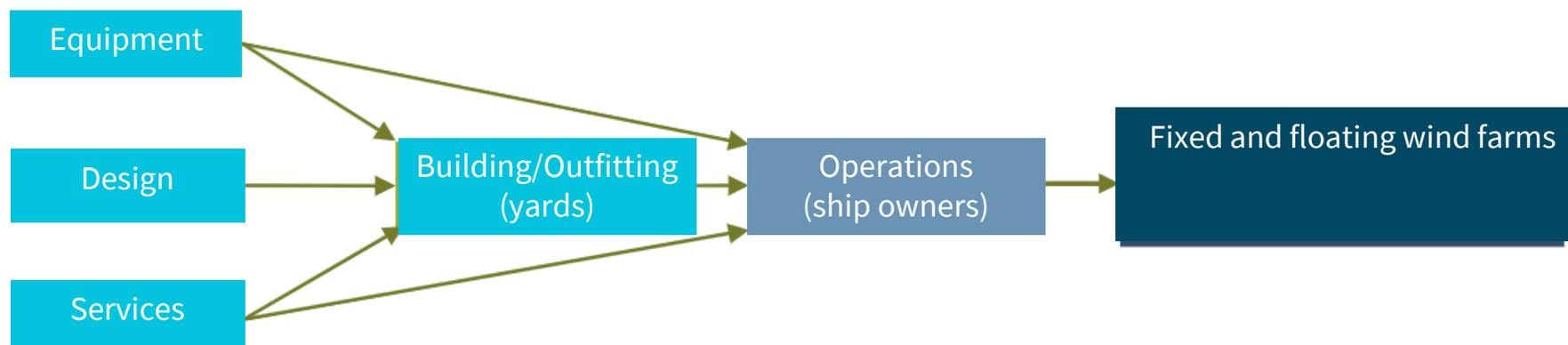
REFIT PROGRAM

ESVAGT HEIDI

- Built as PSV by Ulstein in 2012
- Rebuilt to SOV by Ulstein 2021
- Shore power system
- Prepared for battery packages

REFIT PROGRAM

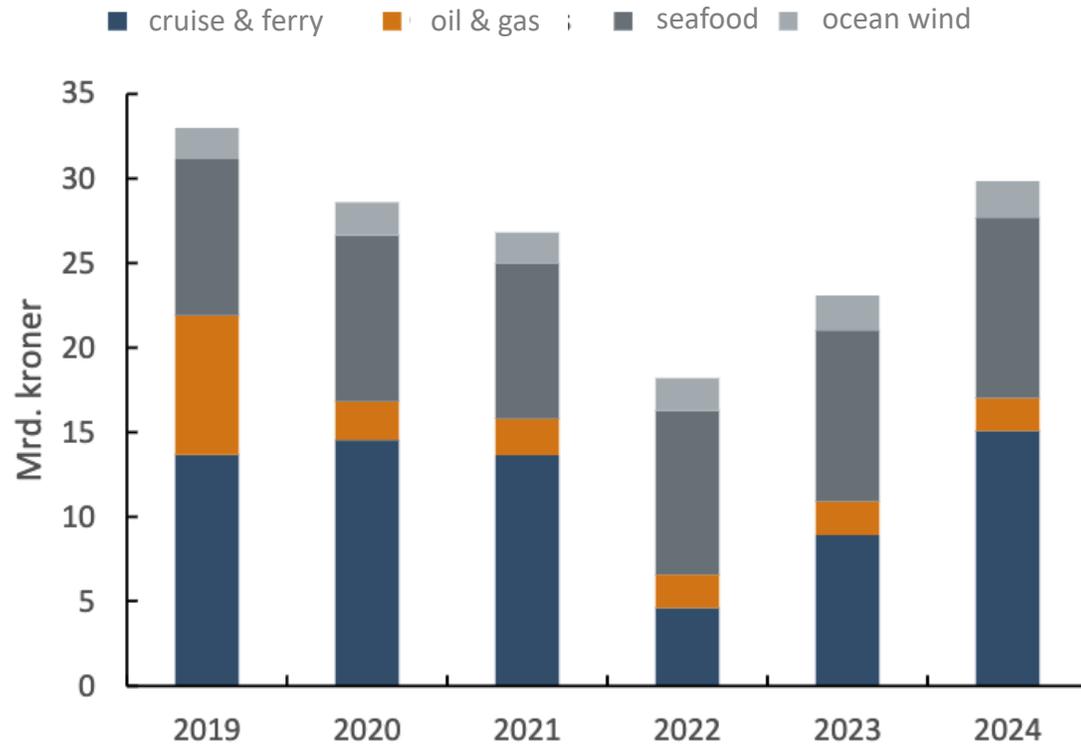
A maritime supply chain for ocean wind is under development – a great market potential and strong competitive advantages



The maritime supply chains for ocean wind and oil/gas are closely related: overlapping operations, similar vessels and a large potential for transfer and sharing of technology and competence.

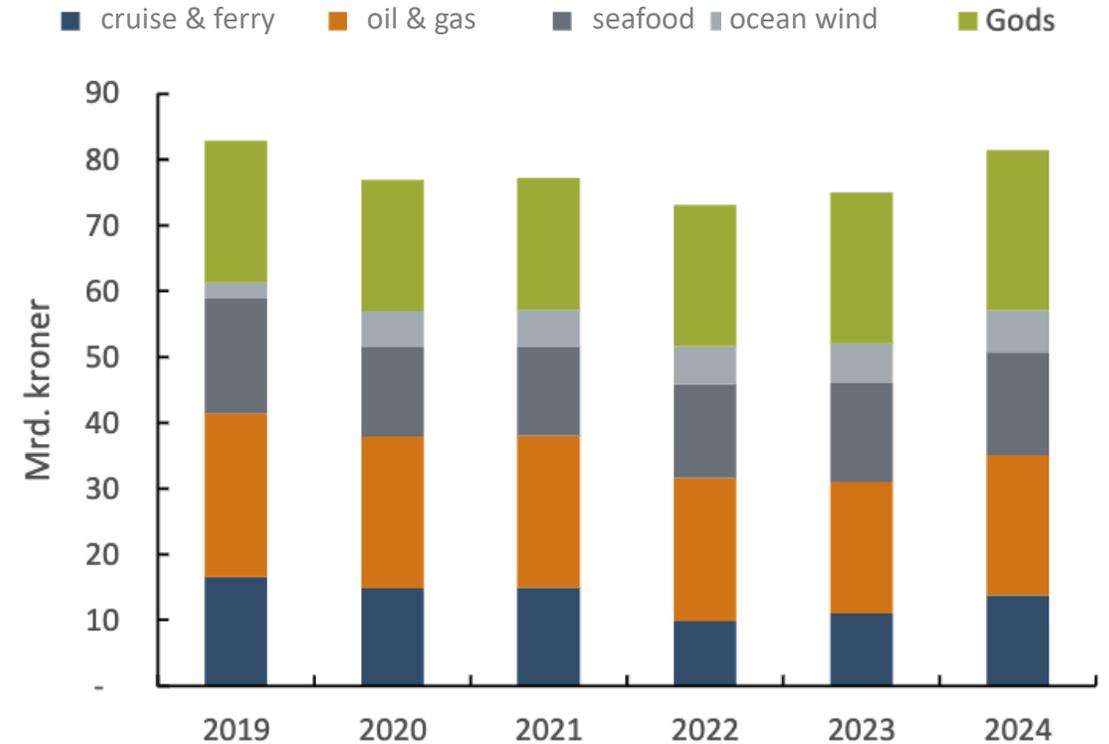
Cruise and ferry markets expected to be largest yard segment until 2024

Development in shipyard revenues by ship segment in main scenario 2019-2024.
Source: Menon Economics



Equipment manufacturers are diversified - oil/gas and goods on top

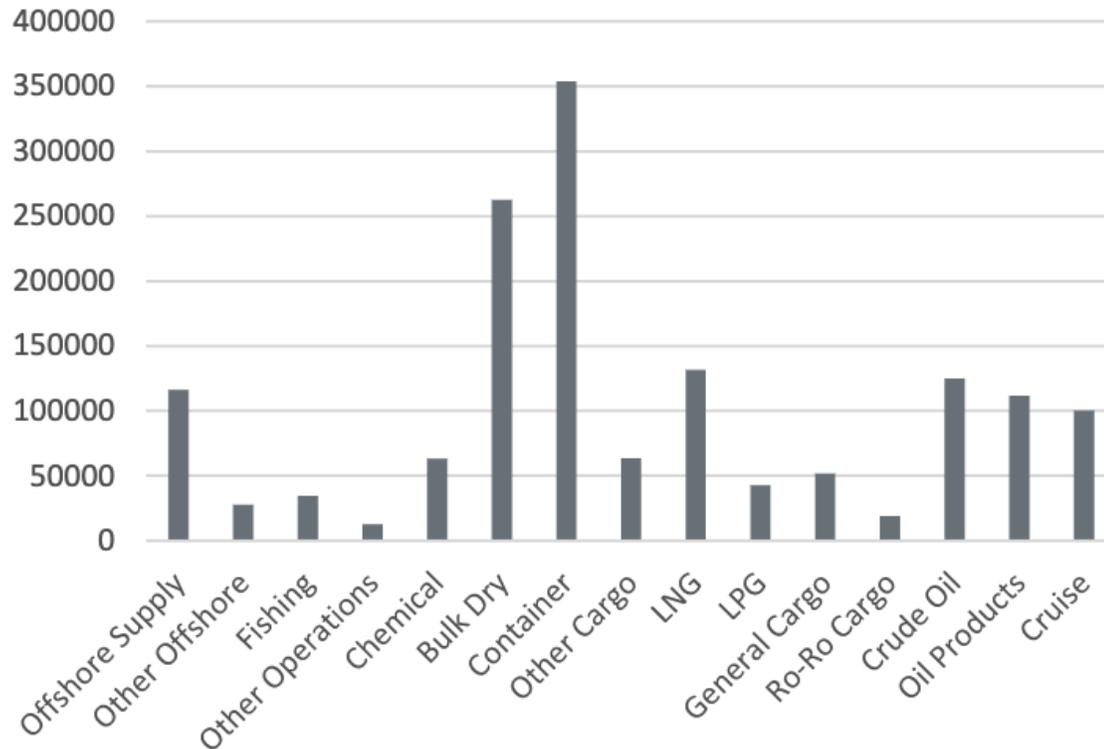
Development in equipment manufacturers' revenues by ship segment in main scenario 2019-2024.
Source: Menon Economics



Global shipping markets: cargo totally dominating, TEU is largest segment

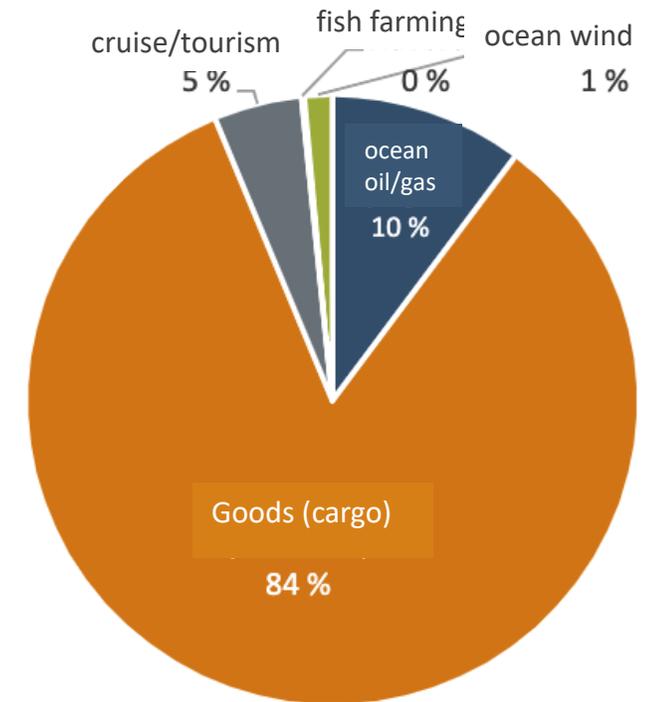
World Fleet value 2021/2022.

Source: Clarksons Research



World market for shipping.

Source: Menon/Clarksons Research/StockApps



Kilde: Menon Economics

Shipbuilding Trends in Norway

Segments	Trend - Newbuilding	Trend - Retrofitting
Ocean Wind (SOV, WTIV)		
Oil/gas (PSV, AHTS)		 
Fishery		
Fish farming		
Cruise	 	
Ferries		



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