

DISCLAIMER

This presentation has been prepared by the management of Vow ASA using commercially reasonable efforts to provide estimates and information about the company and prospective new markets.

The presentation includes and is based, inter alia, on forward-looking information and statements that are subject to risks and uncertainties.

In addition, important factors that could cause actual results to differ materially from those expectations include, among others, economic and market conditions in the geographic areas and industries that are or will be major markets for Vow's businesses, market acceptance of new products and services, changes in governmental regulations, interest rates, fluctuations in currency exchange rates and such other factors as may be discussed from time to time in the presentation.

Vow ASA is making no representation or warranty, expressed or implied, as to the accuracy, reliability or completeness of the information contained in the presentation, and neither Vow ASA nor any of its directors, officers or employees will have any liability to you or any other persons resulting from your use of the information in the presentation.

ON THE AGENDA

- A new era in wastewater and waste treatment at sea Henrik Badin, CEO, Vow ASA
- Ocarnival Cruise Lines: Sustainable from ship to shore Sandra Bratland, Director Destination Affairs, Carnival Norway
- Realising zero discharge and end of waste Per Carlsson, Chief Technology Officer, Vow ASA Hamid Gorbani, VP Sales, Vow Maritime Solutions
- Oruise industry outlook in a shipbuilding perspective Jørn Bakkelund, Senior Analyst, Clarksons
- Q&A panel session Henrik Badin, Sandra Bratland and Jørn Bakkelund Eline Hvamstad, moderator Question from the room and online

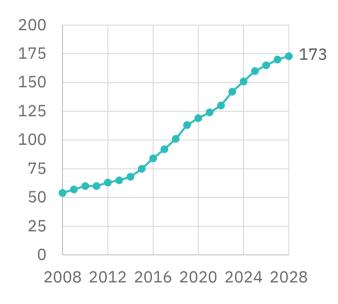




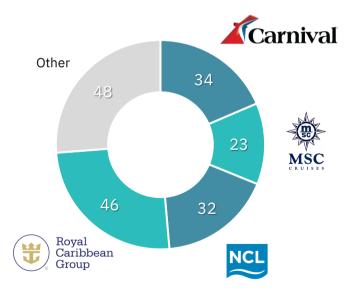


SCANSHIP IN CRUISE

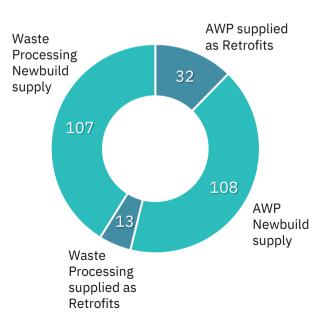
Number of cruise ships with Scanship equipment onboard Accumulated



Cruise ships by shipowners equipped with Scanship technology



Type of Scanship supply





TOWARDS CLEAN SEAS

The cruise industry moved to action before the legislators

3 SCANSHIP

1995 Food waste processing 1996

1996 Sludge handling
Garbage handling
with incinerators AWP for Alaska

2002

2013 AWP for Alaska and Baltic **2019**Garbage
handling with
pyrolysis

2026 Complete circularity with EAP

1976	1988	1995	2002	2011 20	12 2014	2019 2021	2023 2024
agreem	Sea Conver ent for TP a pol Annex (ınd TN	Alaskan Murkowski	Designation Baltic Sea as special area MEPC.200(62)	Review of available technology MEPC67 MEPC.244(66) new requirements garbage incinerators	Required for existing ships	MEDC 273(90)
MEPC = Marine	Years shown indicate year of ship operations MEPC = Marine Environment Protection Committee AWP = Advanced wastewater purification			арр	d for type roval	EPC 227(64) Chapter 4.2 Juired for new ships	7 July 2023



WELL ESTABLISHED TECHNOLOGY PROVIDER WITH A PROVEN DELIVERY MODEL

117

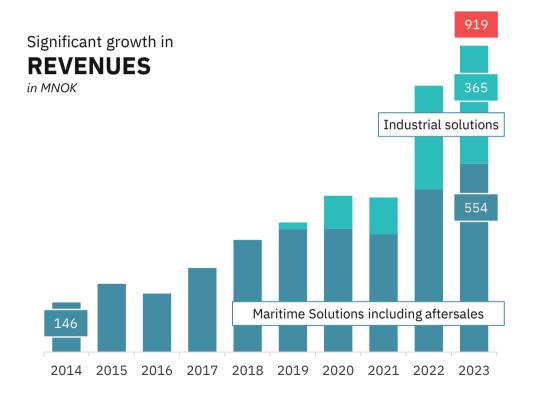
patents

45 proprietary technologies and 35 proprietary technology applications

230

employees

with operations in six countries: Norway France Poland, US, Canada and Italy









IMPORTANT Q1 WINS IN CRUISE

Cruise newbuild contracts awarded | total value EUR 47.7 million





A BUSY 2024 FOR VOW AT EUROPEAN YARDS

Meyer Turku (3)

Meyer Werft Papenburg (2)

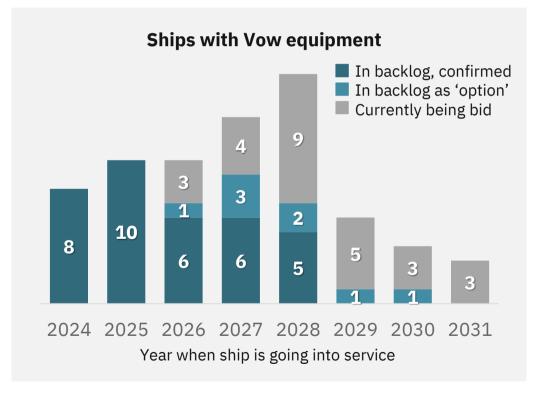
- Scanship's scheduled activities in 2024
 - Commissioning on 9 ships
 - Main system deliveries for 16 ships
- A trusted technology provider and supplier to leading cruise operators and their preferred shipyards



STRONG BACKLOG AND PIPELINE IN CRUISE

Significant tendering activity with promising growth opportunities

- NOK 1,282 million order backlog in cruise, including options and contracts awarded so far in Q2
- Backlog comprises 35 confirmed orders for cruise ships under construction
- Number of options reduced to 8 as owners are renewing their fleets with bigger and more sophisticated ships
- Orders signed to date this year amount to EUR 48 million
- Currently tendering for 27 newbuilds
- Significant market for retrofit of new waste management systems

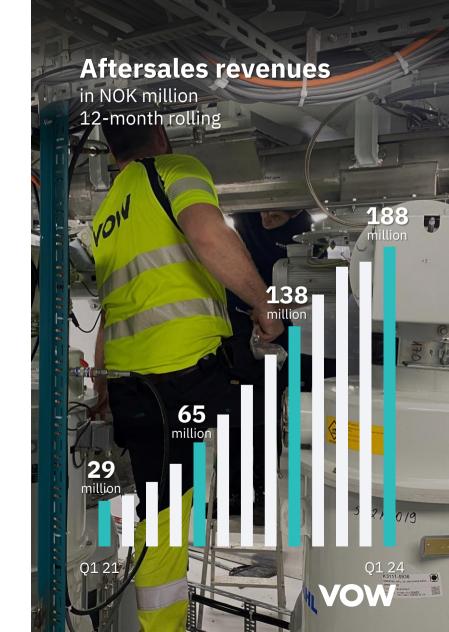




AFTERSALES

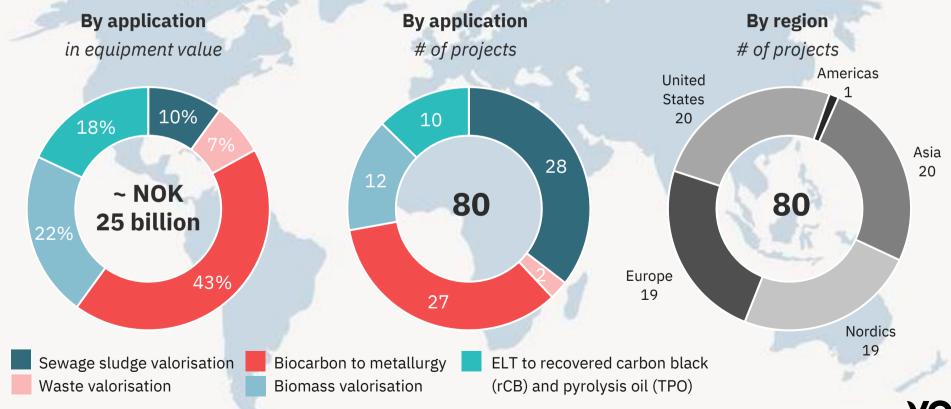
Strong rebound in Aftersales after pandemic

- Aftersales business is approaching 200 million in annual recurring revenue
- Enjoying favourable position with leading cruise operators and large installed base of Scanship systems
- Delivering spare parts, consumable chemicals and operation assistance, with Florida as base
- Scanship's high market share in system deliveries to newbuilds and retrofits is also attributed to high service level in Aftersales



INDUSTRIAL SOLUTIONS BID PIPELINE LARGEST EVER WINDOW OF OPPORTUNITY

With potential final investment decision towards 2029





VOW AT A GLANCE

- **Cruise** Solid backlog and strong position, which leads to predictable and increasing revenues, solid margins and cashflow
- Landbased First milestone projects secured and in commissioning. Final investment decisions pending on several industrial scale projects and in infinite pipeline of prospects
- **Technology** Successfully completed comprehensive R&D programme which has positioned the company for several industry verticals
- **Organisation** Streamlined and scalable with systems and procedures in place to control cost and progress in projects and preserve cash. Well-established relationships to reliable partners in supply chain
- **Supported by megatrends** Environmentally conscious cruise tourism. Regulation and economic incentives that stimulate recycling, decarbonising, carbon capture etc.







Oslo 11.06.24 - Vow ASA

Sandra Diana Bratland
Director Destination Affairs, Carnival Norway

Who We Are

Carnival Corporation & plc is the **largest global cruise company** with a portfolio of world-class cruise brands. Together these brands comprise a fleet of **90+ ships** making **22,000 calls** to over **800 ports worldwide.**

Our talented and diverse workforce of over **160,000 team members from 150 countries** served nearly **12.5 million guests in 2023** – accounting for nearly **half of the overall global cruise market.**

We seek to deliver unforgettable happiness to our guests by providing extraordinary cruise vacations, while honoring the integrity of every ocean we sail, place we visit and life we touch.



Carnival Corporation & plc's

BRANDS AT A GLANCE

With nine of the world's leading cruise lines, we sail to all seven continents.

Three of our nine brands, representing nearly 40% of our fleet, are led by women: Christine Duffy, President of Carnival Cruise Line; Natalya Leahy, President of Seabourn; and Katie McAlister, President of Cunard.







51 YEARS IN OPERATION Miami, FL. USA

25 Ships

58 YEARS IN OPERATION Santa Clarita, CA, USA 27 YEARS IN OPERATION

Clarita, CA, USA Rostock, Germany 15 Ships 11 Ships



Holland America Line

151 YEARS
IN OPERATION

Seattle, WA, USA 11 Ships



75 YEARS IN OPERATION

Genoa, Italy 10 Ships



37 YEARS IN OPERATION Seattle, WA, USA

7 Ships



186 YEARS IN OPERATION

Southampton, UK 7 Ships



91 YEARS IN OPERATION

Sydney, Australia 3 Ships



183 YEARS

Southampton, UK 3 Ships

Carnival Corporation Brands Norway

7 of 9 Brands Sail in Norway

51% Share of cruise market (2023)

26 Ships sailing from Jan – Dec

1,100 Calls planned in 2024

3.3M Day visitors brought to Norway

40 Different ports served

MNOK 1847 Spent with Norwegian suppliers for goods & services alone







Investing in low- and zero-carbon emission technologies, and advanced air quality solutions; partnering with others to advance efforts to lower GHG emissions



Sustainable **Tourism**

Partnering with destinations to create shared value while respecting and helping them maintain their culture, history and natural resources

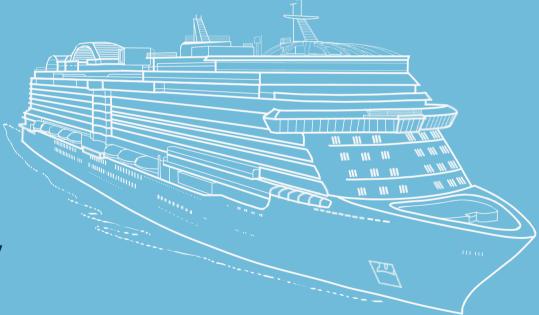


Diversity Equity & Inclusion

Striving to provide a welcoming and inclusive environment where people from different backgrounds, experiences and walks of life can thrive



SUSTAINABILITY FOCUS AREAS





Good Health & Well-Being

Expanding well-being programs to support employees' physical & mental health, encourage social connectivity and promoting a balanced lifestyle









Circular **Economy**

Diverting a substantial portion of waste from landfills by recycling, composting, reusing, or eliminating items from supply chain, ships and ports







Biodiversity & Conservation

Investing in programs supporting biodiversity & conservation; partnering with the communities we visit to help maintain and improve their ecosystems





Footprint Reduction Leadership

Carnival Corporation is pioneering key sustainability initiatives in the industry:



Producing fewer GHG emissions than one decade ago (10% less since 2018 despite 30% more capacity)



13 LNG Ships by 2028 (10 in operation today)



64% of fleet is shore power-capable



Advanced Air Quality Systems



Reduced food waste by 42%, exceeding 2025 40% goal



Cut 500 million+ single use plastics items since 2018





25%

of capacity will be LNG capable by 2028

- 13 LNG-powered cruise ships in the fleet through 2028 (10 already in operation)
 Emissions (vs. marine diesel fuel)
- - Up to 20% reduction in GHG emissions
 - o Zero sulfur
 - 85% reduction in nitrogen oxides
 - 95-100% reduction in particulate matter



420/o reduction in food waste per person

- 600+ food waste biodigesters
- 60+ food waste dehydrators
- Introducing "Hungry Giant"





Investing in Advanced Fuel Technologies

Fuel Cells

1st major cruise ship provisioned for fuel cell system retrofit

Maritime scale battery technology

First-of-its-kind lithium-ion battery storage system

Alternative Fuels

- Several successful industry-first biofuel trials, including ROTTERDAM 100% biofuel project in 2024
- Physical bio-LNG trial planned in 2024 (Costa Smeralda)
- Evaluating methanol engine conversions
- Exploring synthetic fuels, ammonia, hydrogen, others



Supply Chain Major Norway Suppliers



Network data and communications supplies



Waste-water purification and recycling



Technical ship management services

BRUNVOLL

Propulsion and manoeuvring technologies



Automated control and energy management systems



Ship assurance and certification services

Total spend with suppliers in Norway: \$168m / MNOK 1847 in 2022













Grey and blackwater

 $\frac{1}{10}$

Dry garbage

Food waste

Glass, cans and tins

Clean effluent

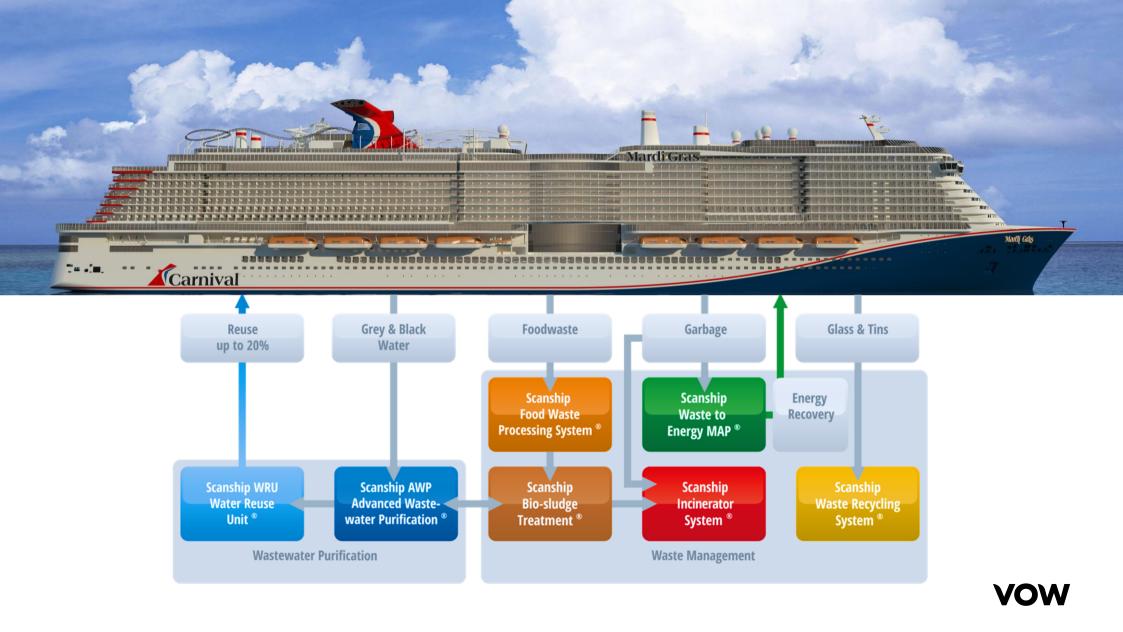
 $\frac{1}{10}$

Biocarbon

Material to recycling

Renewable energy





VALUE CREATION

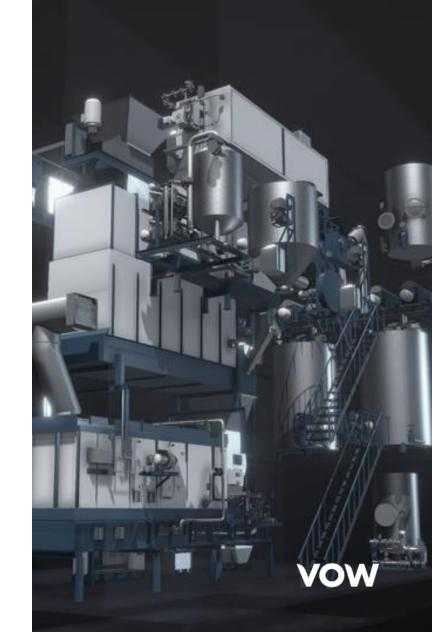
- Operations
- Sustainability
- Economy





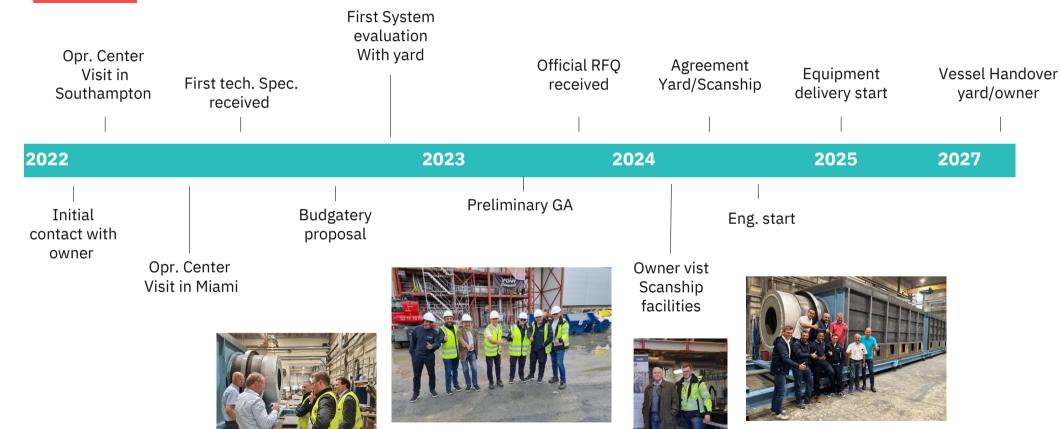
TECHNOLOGY OUTLOOK

- Stricter Regulations
 - Flue gas emissions standards are becoming increasingly stringent, approaching those for land-based applications
 - Implementation of more advanced systems to meet these regulatory requirements
- Larger Ships
 - The increase in ship size results in larger volumes of waste, necessitating more sophisticated waste collection and treatment systems
- Heightened Focus on Sustainability
 - A continued and intensified emphasis on sustainability practices within the industry
- Public Acceptance and Perception
 - The importance of maintaining positive public perception and acceptance, particularly regarding environmental impact and sustainability efforts
- Alignment
 - For cleaner oceans through collaborative efforts with cruise owners and yards



CCL XL PROJECT TIMELINE VESSEL#1





VOW

SHIPOWNERS DRIVING THE CHANGE

- Determined philosophy
- Extreme focus in energy efficiency
- Innovation like no other
- Steering the industry towards sustainable tourism
- Recycling, reusing and re-gaining valuable materials
- Passionate leaders with proactive mindset
- Dedicated teams onshore and onboard ensuring best possible operations
- Willingness to change to improve and to push boundaries for change





MARKET OUTLOOK

- Vow is having a strong order backlog
- Experiencing high activity among shipbuilders and owners
- The vessels that are on the drawing board will require larger and more complex systems
- Some of the key drivers
 - Landing challenge
 - Reduced operational costs
 - Operations in port
 - Cost of CO2 Emissions
- When choosing Scanship solutions, the shipowners achieve all above points





Newbuilding cruise market

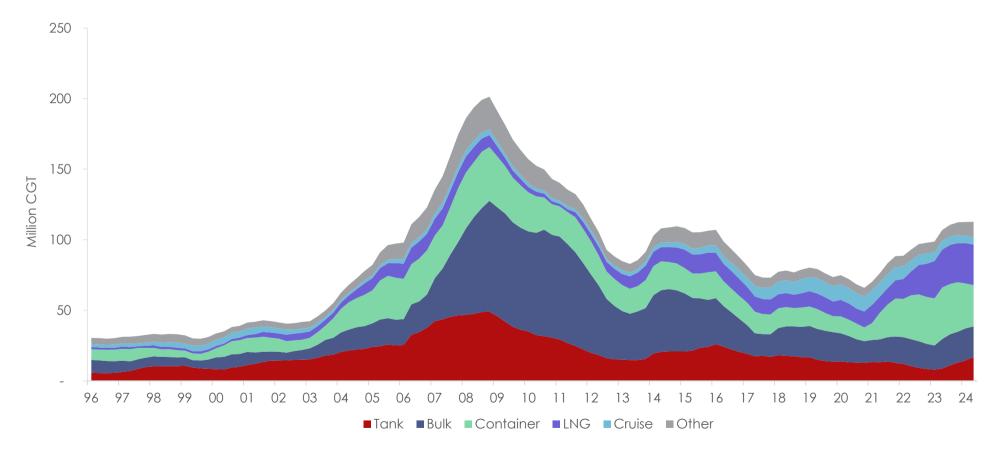
By Clarksons

for VOW
11 June 2024



Cruise ship orderbook currently accounts for less than 5% of total orders

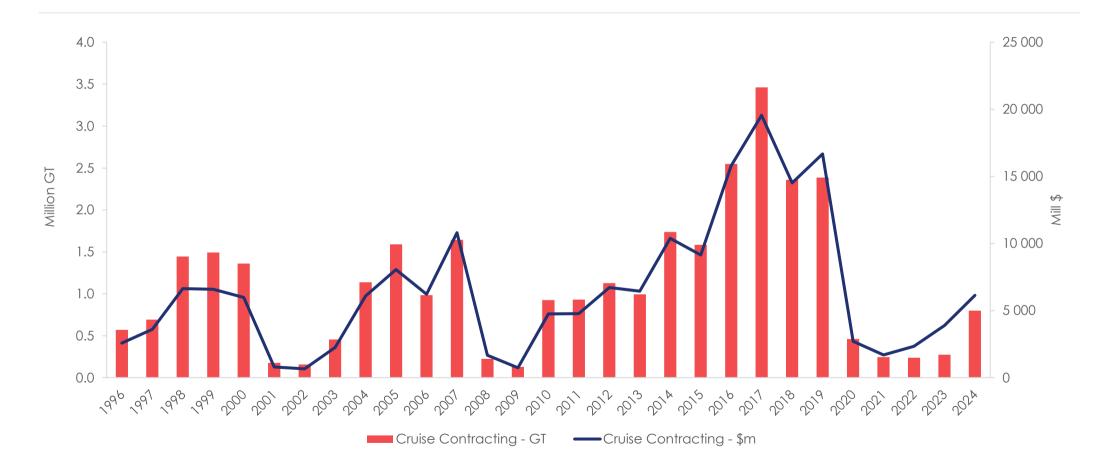
At peak Cruise ships represented 16% of the order backlog in second half 2020



Source: Clarksons Research – in million compensated gross tons (CGT)



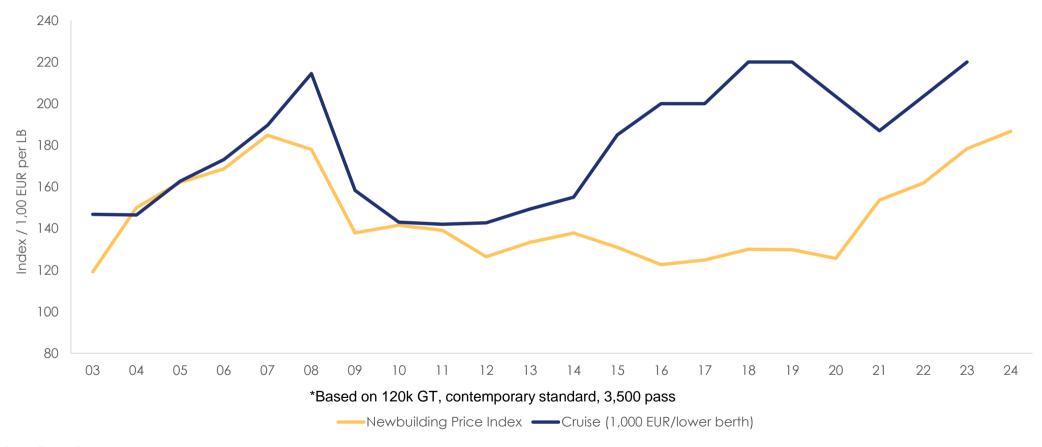
Cruise ships ordering is picking up





All newbuilding prices generally follow the same trend, but

... price for cruise ships* diverted from this trend in the period 2015 - 2021

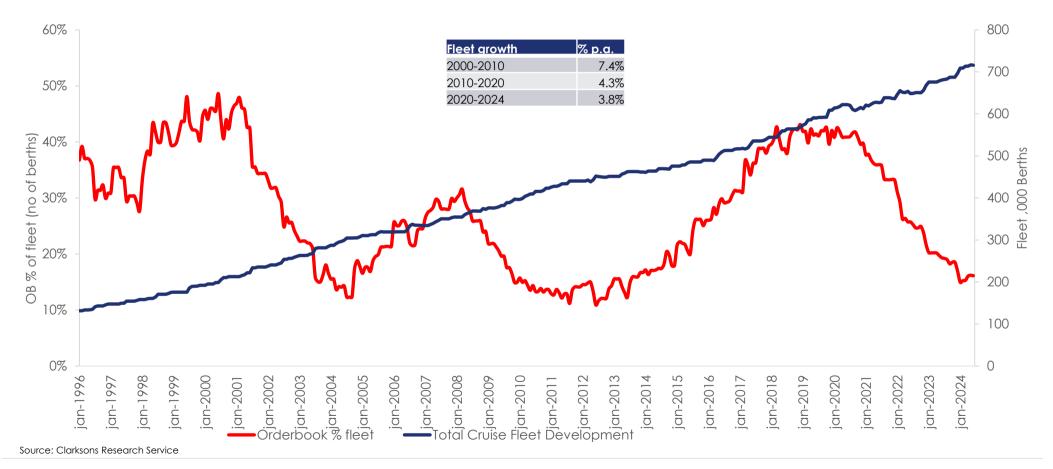






Total cruise ship orderbook 16% of existing fleet fleet

Cruise fleet, 1996-2024 monthly

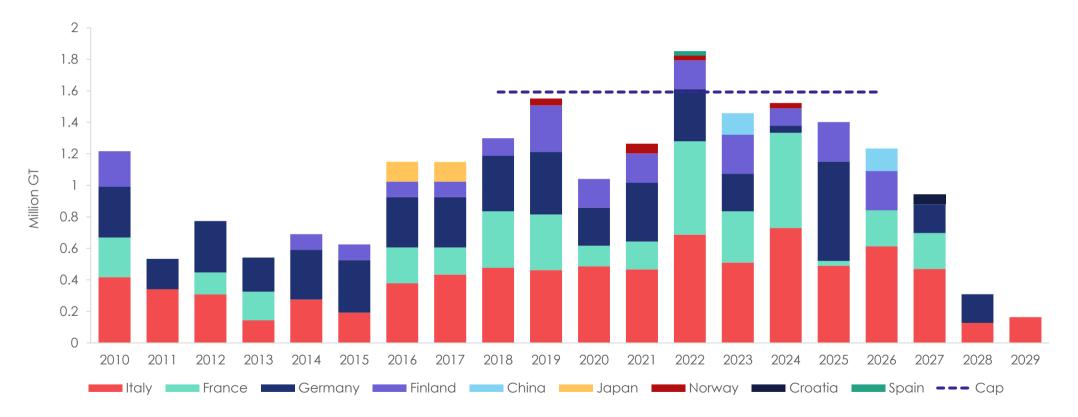




Cruise ships building capacity \sim 10 cruise ships* per year = 5.3% of current fleet

Italy, Germany, France and Finland: capacity 8-9 ships per year

Deliveries of large cruise ships +20,000 gt per year by country



Source: Clarksons

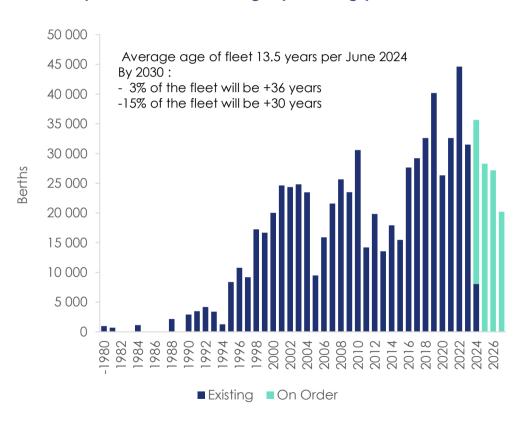
* of 4,000 LB/160,000 GT



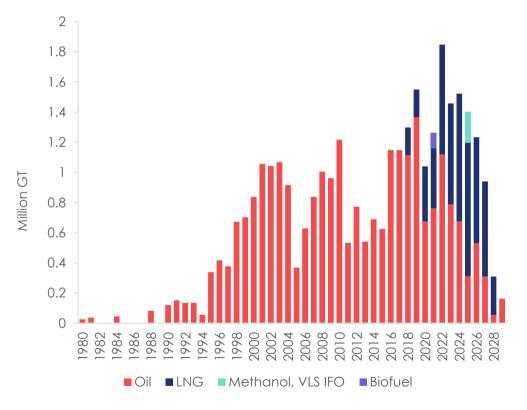
Will regulation increase the need to replace older ships?

60% of ships delivered from 2024 are dual fuelled while only 9% of current fleet are dual fuelled (GT)

Cruise ship fleet above 20,000 gt by building year



Cruise ships above 20,000 gt by fuel type

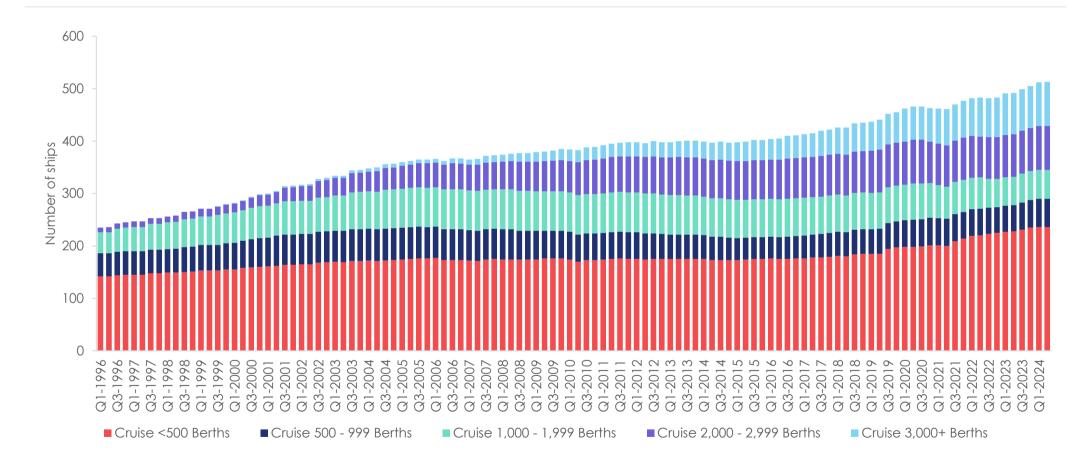


Source: Clarkson Research Service - above 20,000 gt



Cruise ships fleet: The smallest and largest size of ships are in flavor

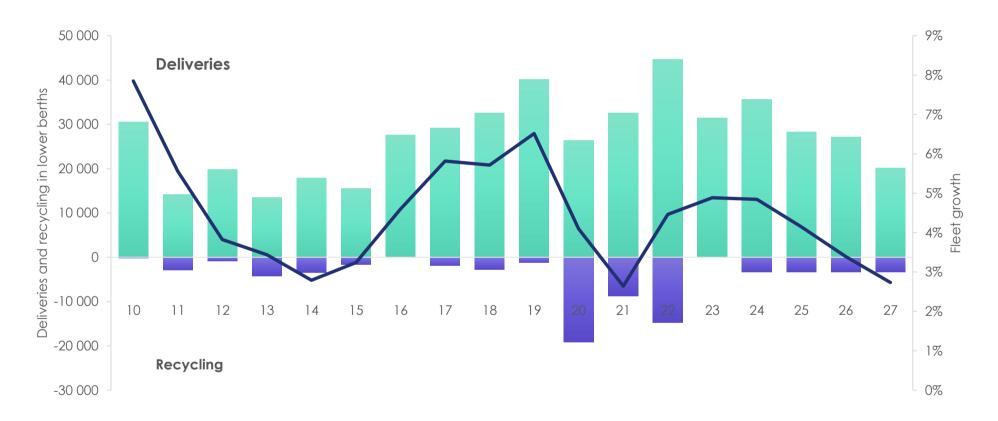
Cruise fleet development in number of ships





Cruise fleet continues to grow as orderbook is delivered

Ocean cruise fleet (above 20,000 GT), 2010-2027



From 2022; based on current orderbook and removal at age 36 year, equal to latest removal age

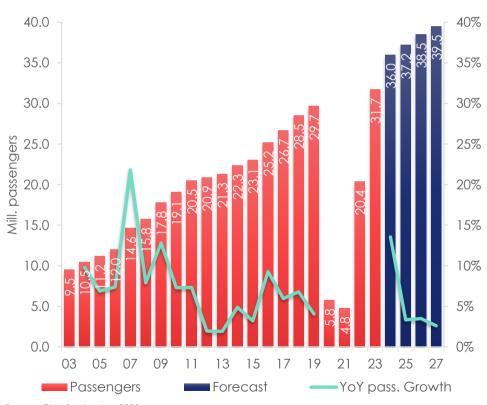




Cruise market to be "fully recovered" this year

Cruise market scenario

Global cruise passengers to 2027



- Cruise passenger increased by 7.4 pct per year from 2003 to 2019 Asia market main driver mainly due to China
- In 2020 the number of passengers was hit by Covid19 and subsequently cruise lines halted operations.
- CLIA base case scenario (Sept 2023) for growth in number of passengers YoY:

2023 54%2024 14%

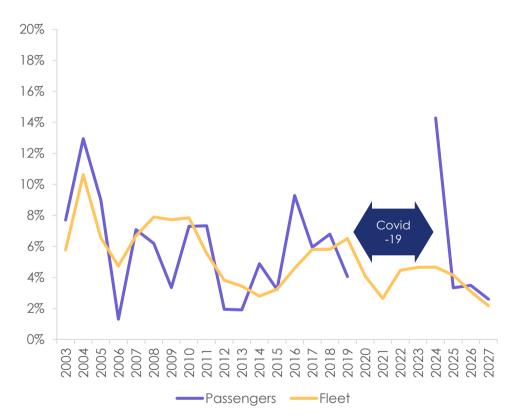
• 2025-27 ~3% p.a.

Source: CLIA September 2023

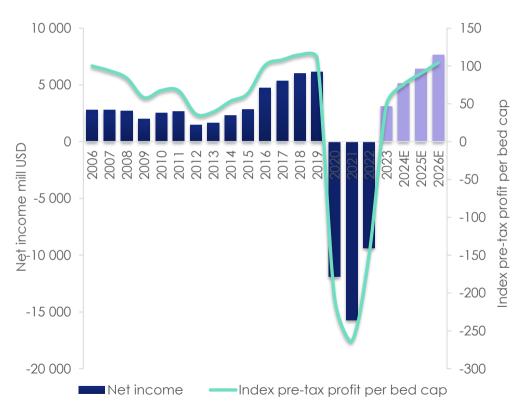


Cruise market balance: Number of passengers determined by fleet capacity, profit per bed capacity a better indicator





Net income per bed capacity*



Source: CLIA, Clarksons * Estimates based on Carnival, RCCL and NCL. 2023-2026 based on forecast from Reuters per June 2024



Disclaimer

Clarksons Norway

Important Information

The material and the information (including, without limitation, any future rates) contained herein (together, the "Information") are provided by Clarksons Norway AS ("Clarksons Norway") for general information purposes. The Information is based solely on publicly available information and is drawn from Clarksons Norway's database and other sources. Clarksons Norway advises that: (i) any Information extracted from Clarksons Norway's database is derived from estimates or subjective judgments; (ii) any Information extracted from the databases or information services of other maritime data collection agencies may differ from the Information extracted from Clarksons' database; (iii) whilst Clarksons Norway has taken reasonable care in the compilation of the Information and believes it to be accurate and correct, data compilation is subject to limited audit and validation procedures and may accordingly contain errors; (iv) the provision of the Information does not obviate any need to make appropriate further enquiries; (v) the provision of the Information is not an endorsement of any commercial policies and/or any conclusions by Clarksons Norway and its 'connected persons', and is not intended to recommend any decision by the recipient; (vi) shipping is a variable and cyclical business and any forecasting concerning it may not be accurate. The Information is provided on "as is" and "as available" basis. Clarksons Norway and its affiliates make no representations or warranties of any kind, express or implied about the completeness, accuracy, reliability, suitability or availability with respect to the Information. Any reliance placed on such Information is therefore strictly at the recipient's own risk.

The opinions and estimates contained herein represent the view and judgment as of the dates specified (and in absence of such, as of the date of the report), and are subject to change without notice. Delivery of this report shall not create any implication that Clarksons Norway assumes any obligation to update or correct the Information.

This Information is confidential and is solely for the internal use of the recipient. Neither the whole nor any part of the Information may be disclosed to, or used or relied upon by, any other person or used for any other purpose without the prior written consent of Clarksons Norway. Especially, the information is not to be used in any document for the purposes of raising finance whether by way of debt or equity. All intellectual property rights are fully reserved by Clarksons Norway, its 'connected persons' and/or its licensors.

To the extent permitted by law, Clarksons Norway and its affiliates shall not be liable to the recipient or any third party for any loss, liability or damage, cost or expense including without limitation, direct, indirect, consequential loss or damage, any loss of profit, loss of use, loss of or interruption in business, loss of goodwill, loss of data arising out of, or in connection with, the use of and the reliance on the Information whether in contract, tort, negligence, bailment, breach of statutory duty or otherwise, even if foreseeable. These exclusions do not apply to the liability of Clarksons Norway and its 'connected persons' for fraud or fraudulent misrepresentation.

In this disclaimer affiliates means, in relation to Clarksons Norway, its ultimate holding company Clarkson PLC, subsidiaries and subsidiary undertakings and the respective directors, officers, employees and agents of each of them.

This disclaimer and any disputes related to the Information shall be governed by and construed in accordance with Norwegian law.



