WEBINAR

TUESDAY 28 OCTOBER 10:30-11:30 GMT

Next-generation shuttle tankers: fleet renewal and technological innovations

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Sivert Olsvik Saether

Business Development & Marketing Manager **Brunvoll**

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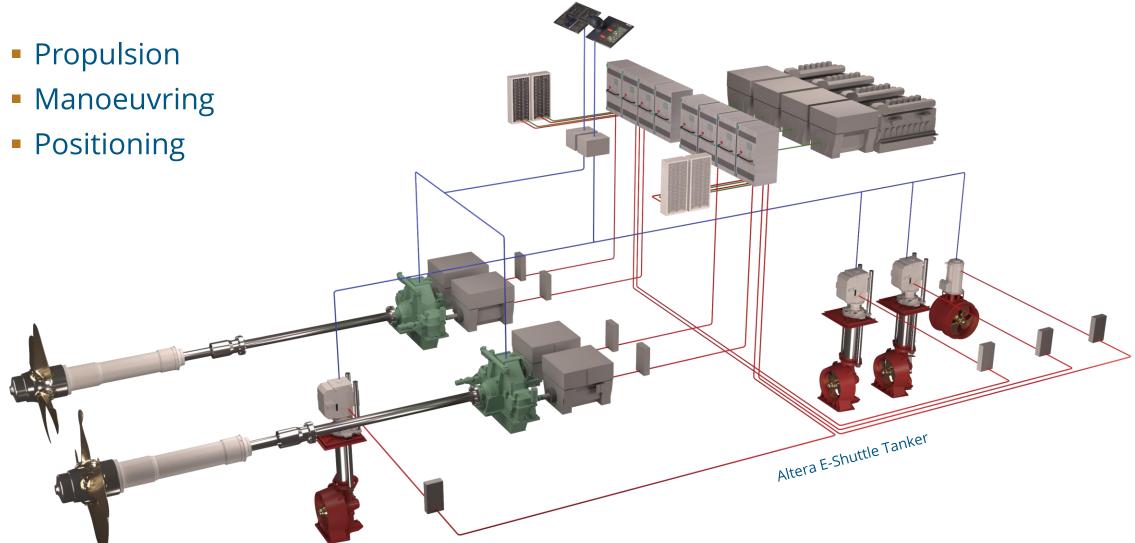


Reducing Downtime and Saving Costs: A Case Study on Brunvoll's Retractable Azimuth Thrusters, with Serviceability on Regular Dock Blocks or While Afloat

Next-generation Shuttle Tankers Webinar



Shuttle Tanker Arrangement



Retractable Azimuth Thruster

- History
 - Navy
 - Offshore Energy
 - Fishery (Combi tunnel thruster)
- Power range
- Delivered units
- Serviceability on regular dock blocks and while afloat



Serviceability on regular dock blocks or while afloat

- Regular maintenance
 - 5. and 10. year docking
 - Dock
 - Availability
 - Depth limitations
- Unforeseen event
 - Incident repair while afloat



Serviceability on regular dock blocks or while afloat

- Regular maintenance
 - 5. and 10. year docking
 - Dock
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 - Depth limitations
- Unforeseen event
 - Incident repair/service afloat



Picture from yesterday, during maintenance on M/T "Synnøve Knutsen"

Brazilian Case Study

Fuel and off-hire cost

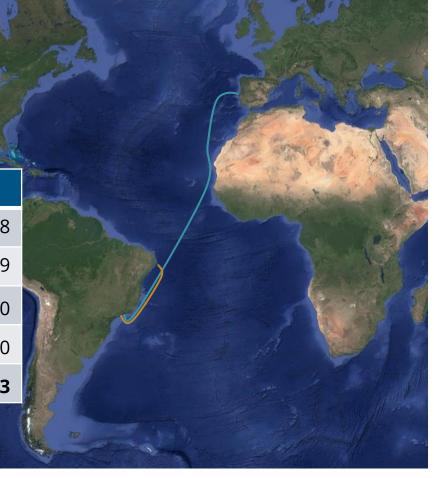
Parameter	Rio - European shipyard	Rio – Brazilian shipyard	Savings
Roundtrip sailing distance [nm]	8400	2300	6100
Roundtrip sailing duration [days]	29	8	21
Roundtrip fuel consumption [tonnes]	1021	280	741
Roundtrip fuel cost [USD]	816 667	223 611	593 056
Roundtrip off-hire [USD]	1 750 000	479 167	1 270 833
Roundtrip total cost[USD]	2 566 667	702 778	1 863 889
*Fuel price 800 USD/tonnes, Day rate 60,000 USD. Transit 12 knots, Fuel consumption 35 tonnes/day.			

^{*}Fuel price 800 USD/tonnes, Day rate 60.000 USD, Transit 12 knots, Fuel consumption 35 tonnes/day.

Brazilian Case Study

Return of investment

Parameter	Value
Total savings, dry-docking at 5. and 10. years [USD]	3 727 778
Average savings per year, 15 years operation [USD]	248 519
Added Capex [USD]	350 000
Added OPEX [USD]	0
Return of investment [year]	1,3





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Felipe Figueiredo
Fleet Manager
OSM Thome

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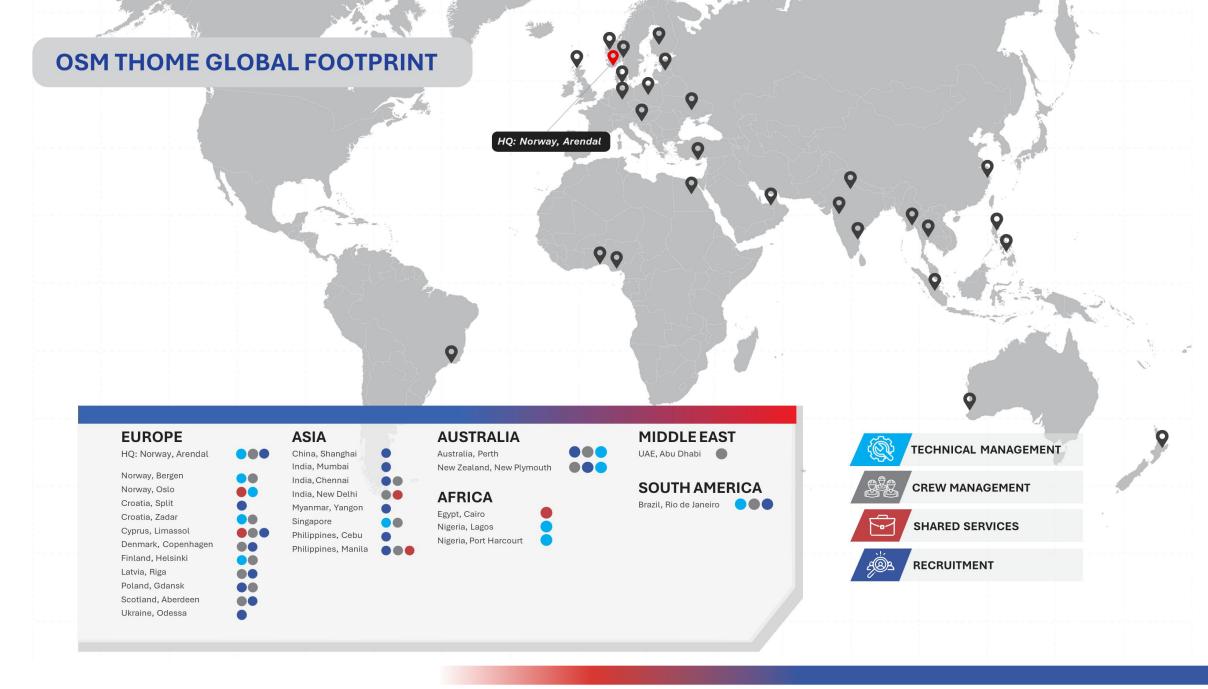


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We have the right ingredients to provide a quality service to the maritime and offshore industry. This includes robust processes, global coverage, volume and great people!



SHUTTLE TANKERS TECHNICAL MANAGEMENT

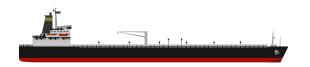


OSM Thome – A Pioneer and Global Leader

- •Roots back to Rasmussen Maritime Services (1977) first shuttle tanker operator.
- •Operated the world's first shuttle tankers, *Polytrader* and *Polytraveller* (1979).

OSM Thome Is The World's Number One Third Party Shuttle Tanker Manager

- •Today, OSM Thome manages ~10% of the global shuttle tanker fleet, providing both crew and technical management.
- •Decades of operational experience form the foundation for developing next-generation shuttle tankers.



11
SHUTTLE
TANKERS





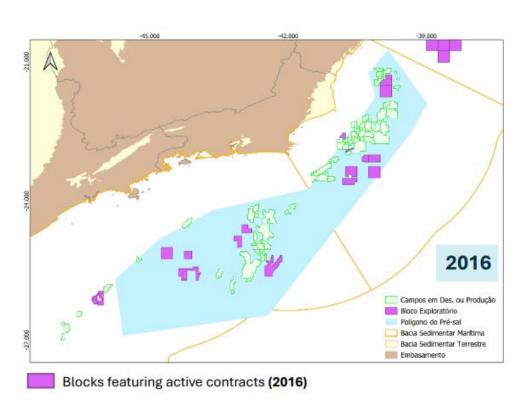
www.osmthome.com

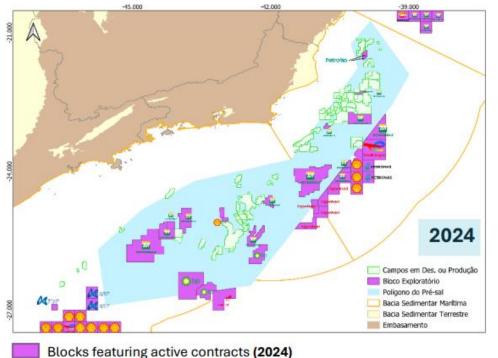
Contracts for the Campos and Santos Basins

OPP and OPC (2016=>2024)



















\$\mathref{p}\$ bpc2024.com.br

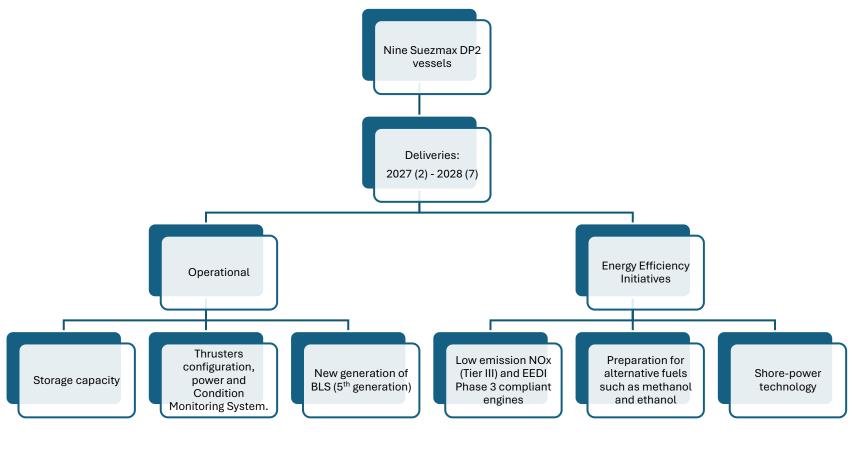
Source: ANP: https://www.gov.br/anp/pt-br/centrais-de-conteudo/apresentacoes-palestras/2024/arquivos/2024-10-29-ronan-avila-4th-bpc.pdf

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Shuttle Tanker Project for Petrobras Offloading Operations in Brazil







Source:

https://transpetro.com.br/en_us/transpetro-institucional/noticias/transpetro-will-double-platform-offloading-capacity-by-2028.htm

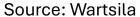


NEW PROJECTS' FEATURES



- Rudder Bulb
- Pre Swirl Duct
- Shaft Power Meter
- Engine Control Optimization
- Low Friction Antifouling Coating
- Ultrasonic Antifouling System for Seachests and Propeller
- Exhaust Gas Economizer for Auxiliary Engines
- PRS Upgrade
- VOC Recovery Systems
- Nitrogen IGG
- DC Grid
- Trim Optimization Software
- Smart Class Notation



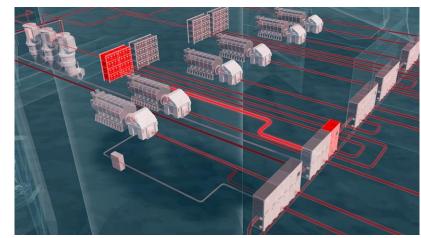




Source: Friedrich Mewis



Source: Alfa Laval



Source: ABB

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Catrine Vestereng
SVP & Business Director Tankers, Maritime
DNV

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DNV update on Shuttle Tankers

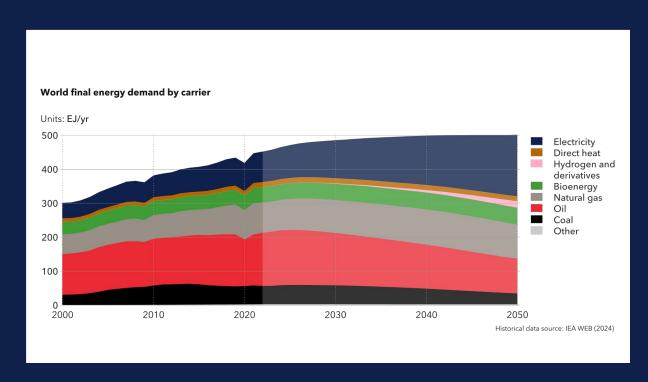
Riviera Shuttle Seminar

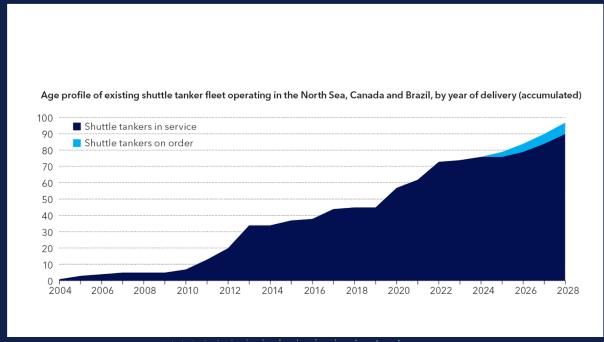
Catrine Vestereng, SVP & Global Segment Director for Tankers, DNV 28th October 2025



Global oil demand is still increasing

...which is reflected in the increasing Shuttle fleet



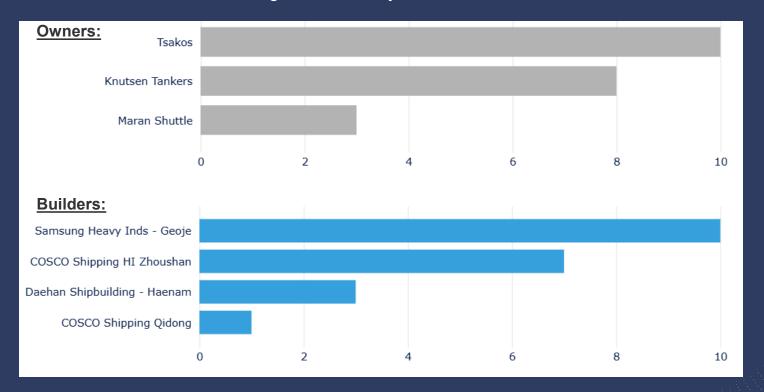




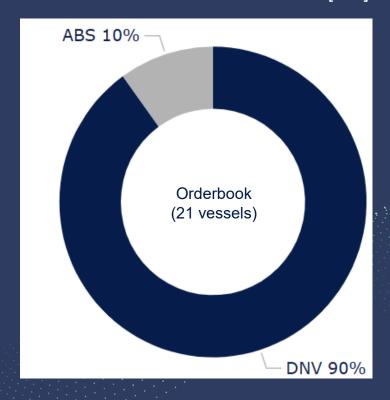
Current orderbook is South Korea (70%) and China (30%) and DNV is the preferred class

Source: S&P Global, September 2025



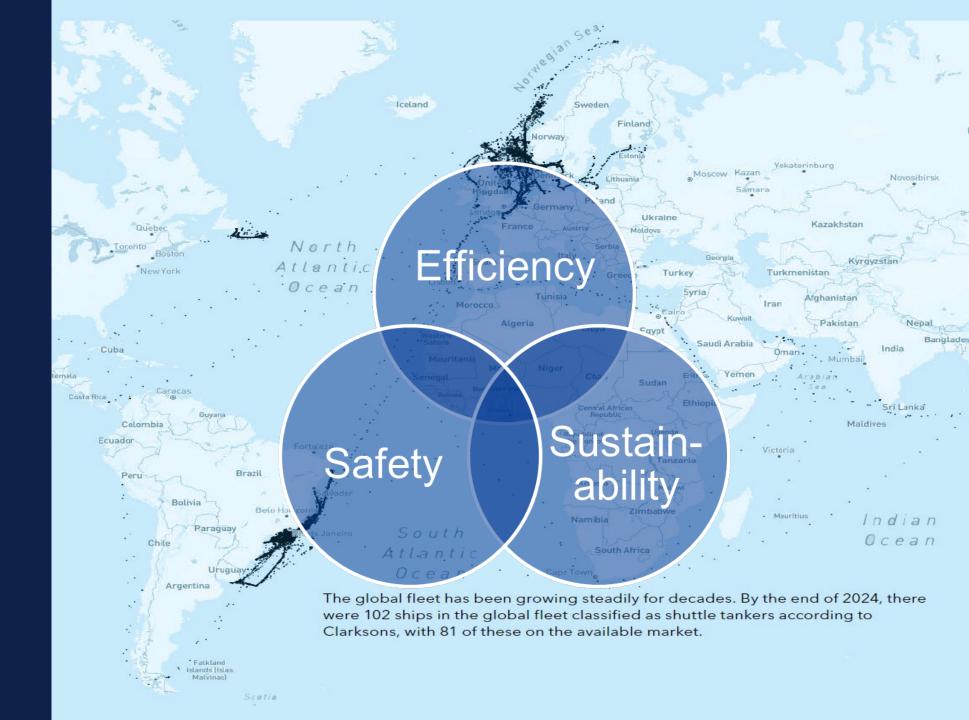


Class Market Shares – for orderbook [nos]





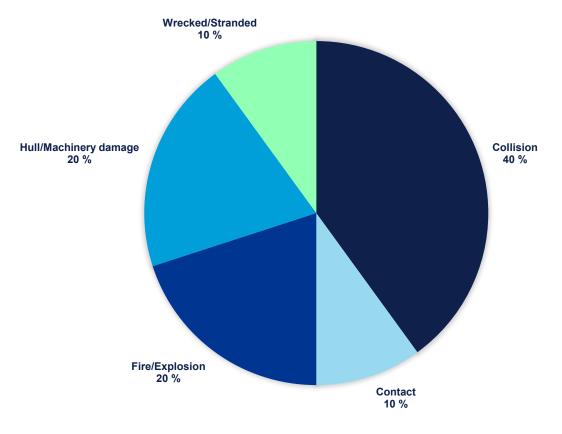
Three KEY
FACTORS
are shaping
the
development
of shuttle
tankers
today...



Safety is fundamental to shuttle tanker development over the years and continues to be a priority

- Dynamic positioning
- Bow loading arrangements
- Nautical safety
- Fire safety
- Hull design

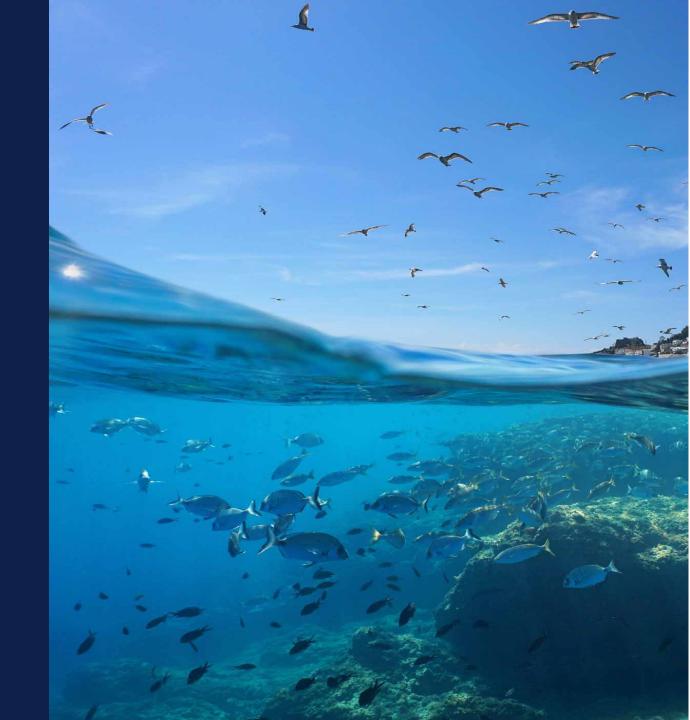
DISTRIBUTION BETWEEN INCIDENT TYPES FOR SHUTTLE TANKERS (2005-2024)





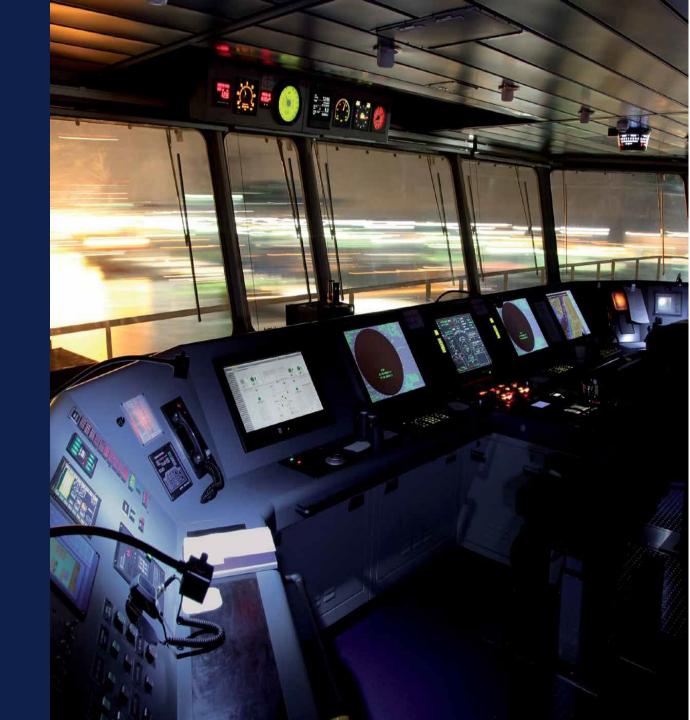
Environmentally friendly operations increasingly seen as a strong driver for development

- Driven by local and international regulations
 - CII
 - EEXI
 - FuelEU Maritime
 - Norog140
- Increased uptake of energy efficiency measures and alternative fuels



Increased focus on efficiency and smart technologies in design and operation

- Increased digitalization driving energy efficiency
- Continuous advancement within operational functionalities (e.g. DP and BLS)
- Utilization of digital interface for improved active monitoring



Combining traditional and new challenges requires trade-offs, leading to higher complexity and new risks

- Safety and safety margins
- Independency, segregation, safety barriers
- Established technologies

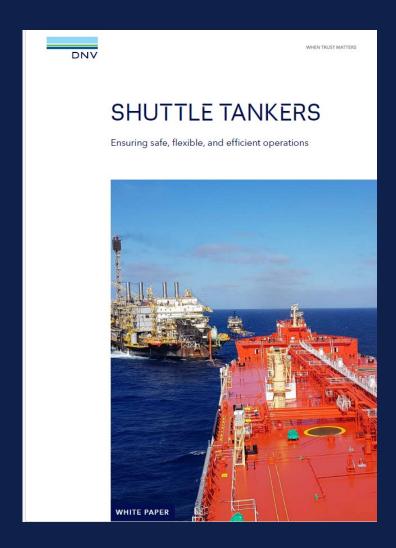


- New fuels and technologies
- Increasingly interconnected systems
- Design optimization





Download the our recently published white paper and stay informed about the most important factors shaping shuttle tankers today







Thank you for listening! – Any questions?



Catrine Vestereng – SVP & Global Segment Director for Tankers

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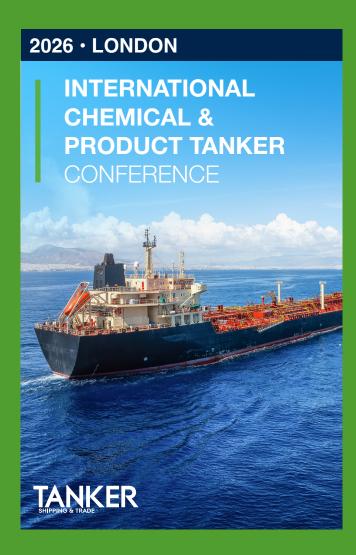
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