



Market Update North Sea Rigs & AHTS

MOP Kristiansand

April 2024

SSY Global

Established in **1880**

500+ Shipping experts

24 Offices

9 Broking divisions

Athens	Kristiansand	Shanghai
Copenhagen	London	Singapore
Dubai	Madrid	Stamford
Geneva	Mumbai	Sydney
Genoa	New York	Tokyo
Hamburg	Oslo	Vancouver
Hong Kong	Rio de Janeiro	Varna
Houston	Seoul	Zug

Acquisition of Westshore Shipbrokers F3O Offshore Services



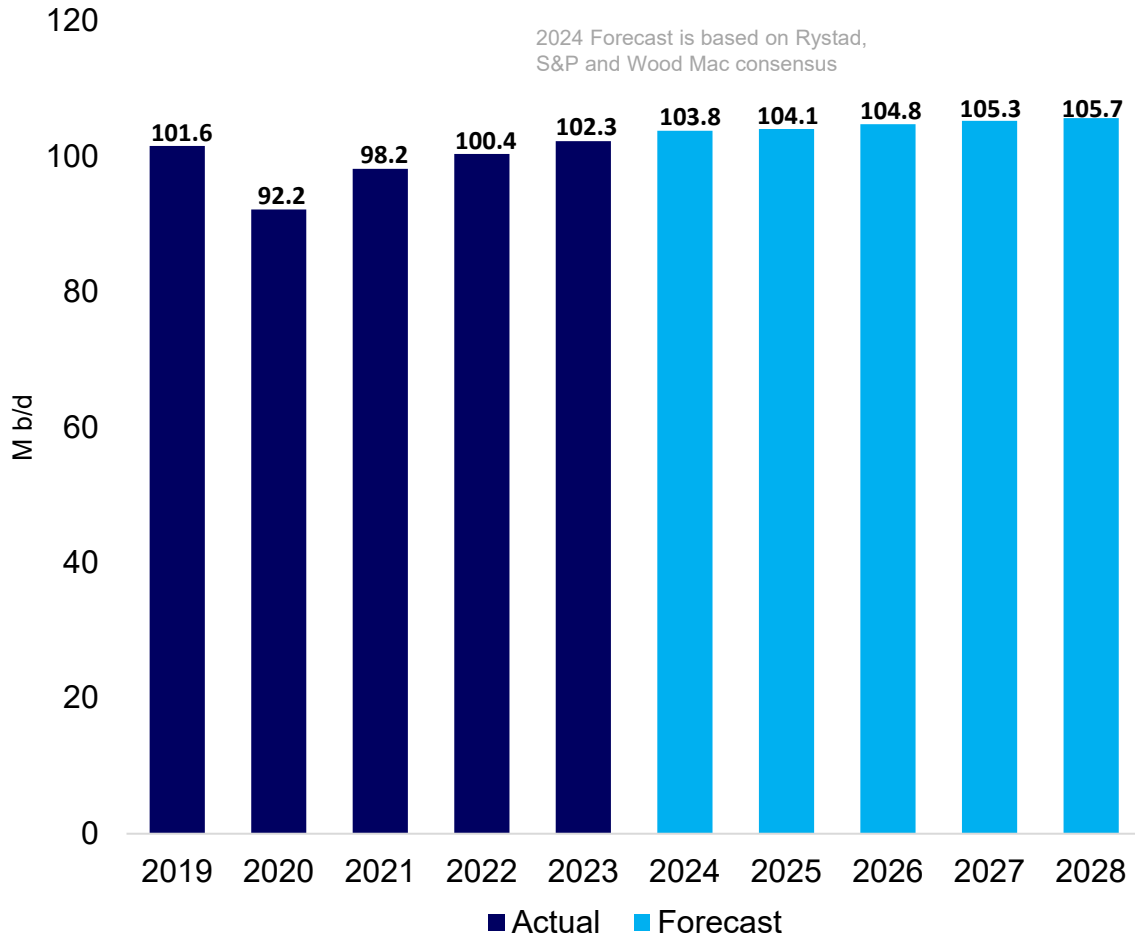
Kristiansand, Oslo, Dubai and Hamburg



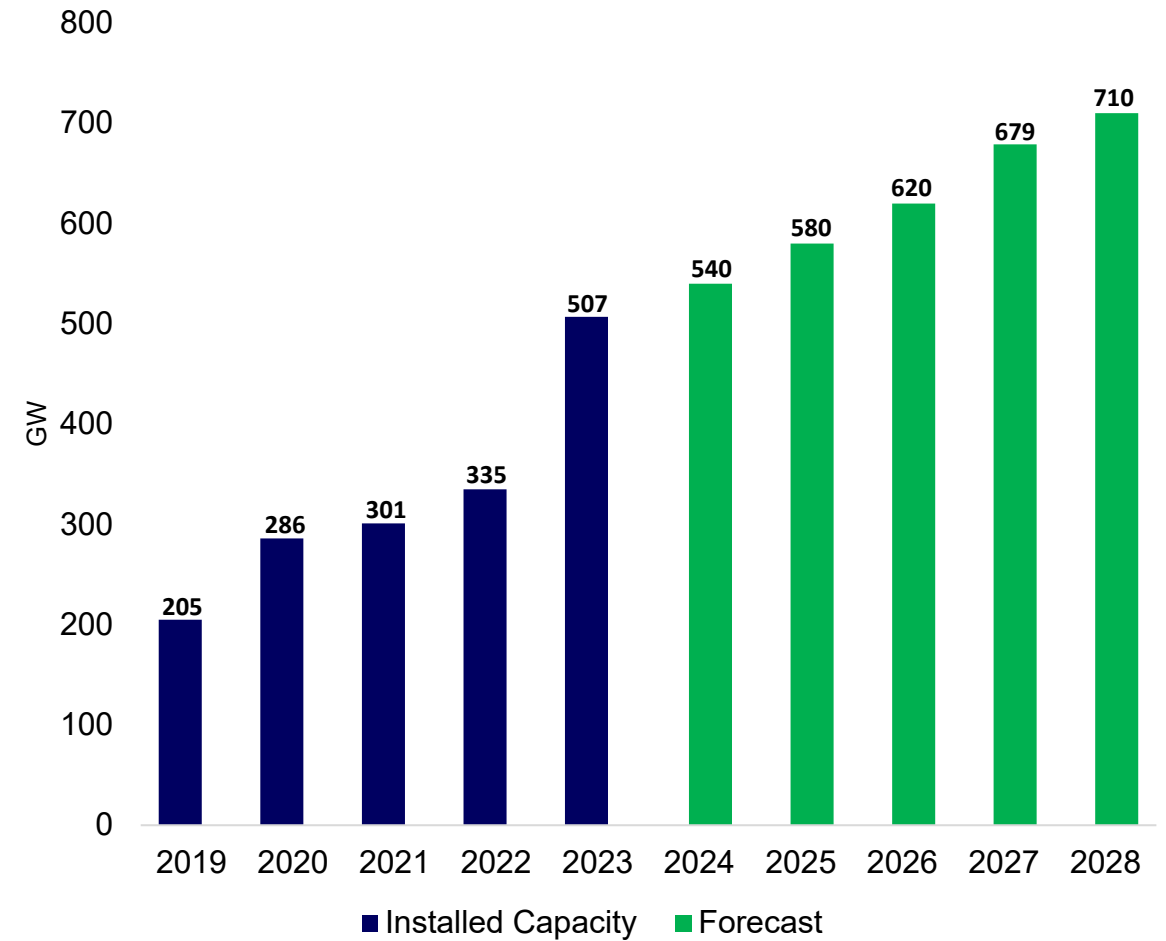
Global Oil Market



Record high global oil demand expected in 2024



Record amount of installed capacity from renewables in 2023

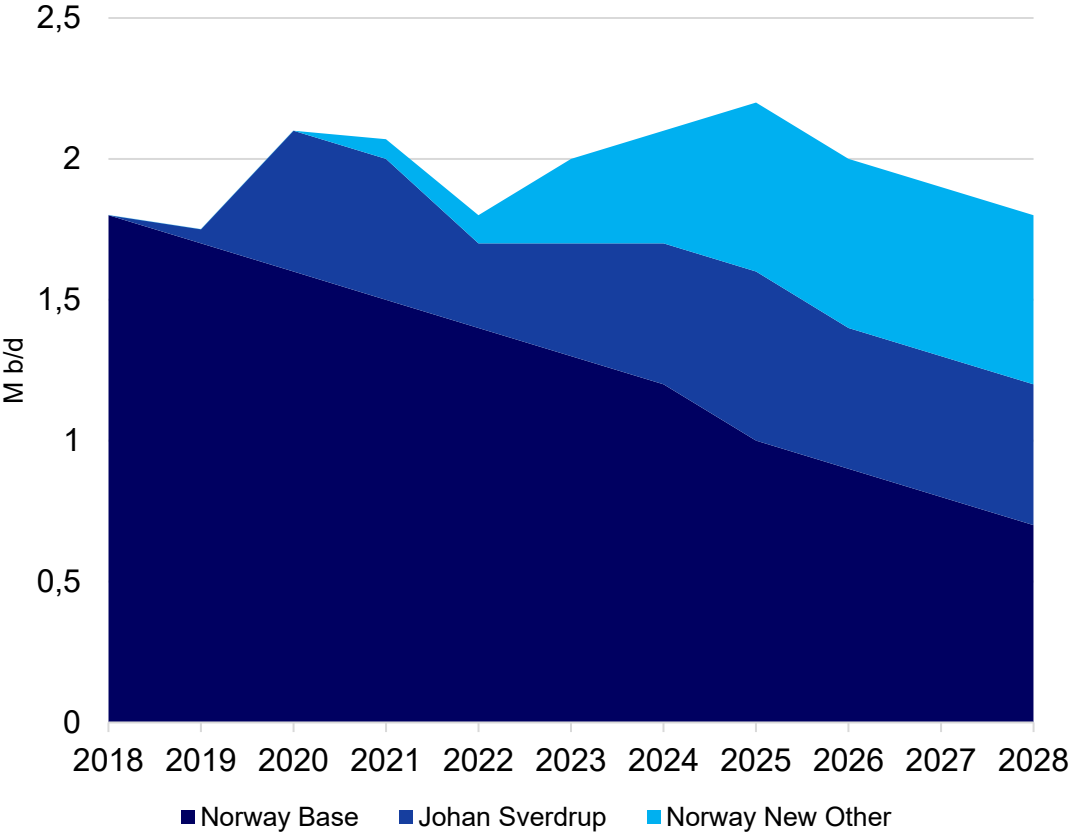


Source: IEA, Saudi Aramco

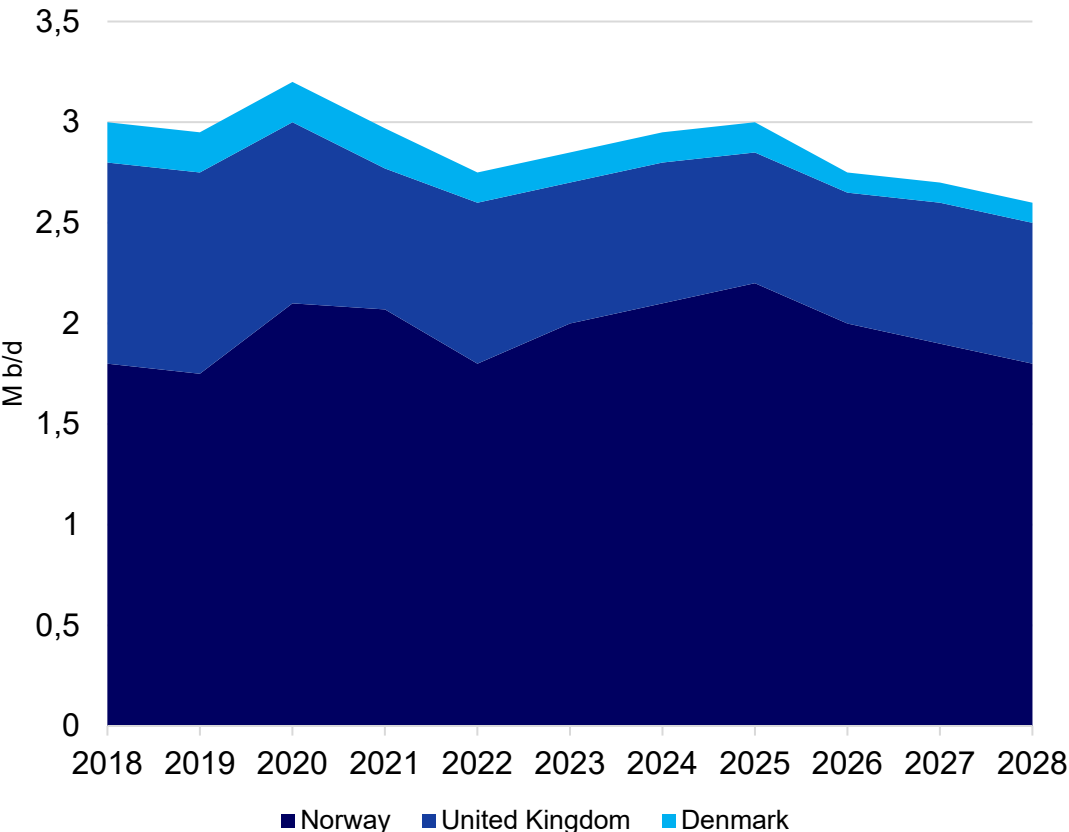
North Sea Production



Norway is ramping up production towards 2025



Stable but declining total production from the North Sea

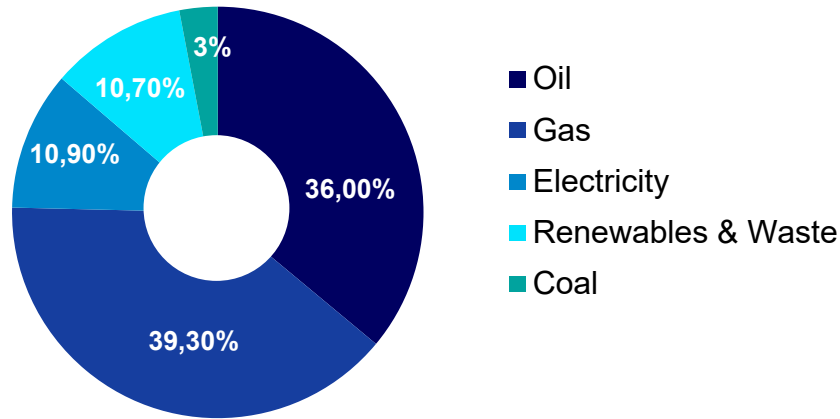


Source: IEA

UK increasingly dependent on Norwegian and US O&G



Energy mix 2023

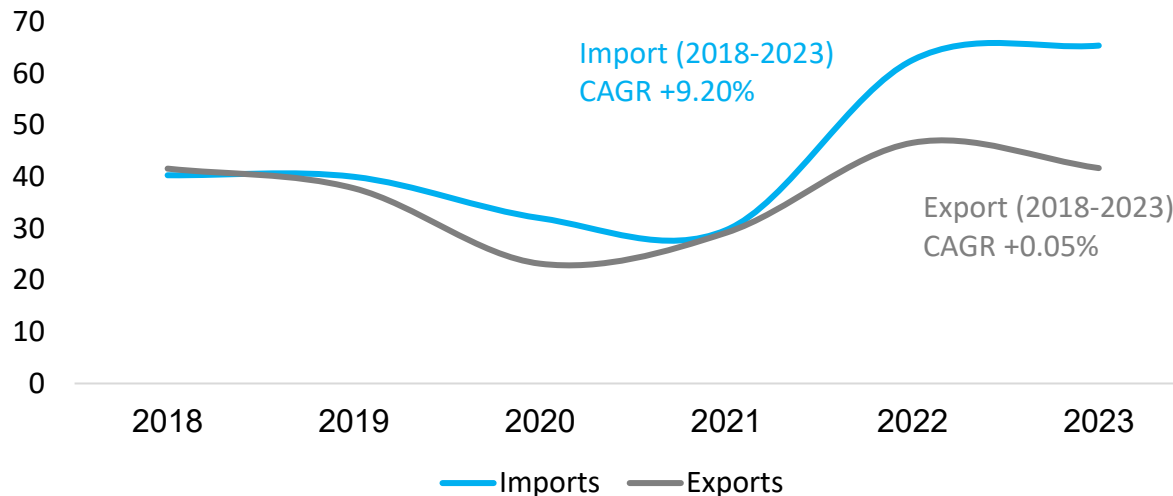


The UK Windfall tax puts total tax burden for O&G companies to 75% and was recently extended into March 2029

2023 Highlights

- FID on Rosebank late 2023. FPSO startup 2026-2027 with offshore operations to kick off this summer. Drilling campaign set to start in Q2 2025. 245 million Barrels will be produced in the first five years, with remaining 55 million between 2032 and 2051.
- FID on Teal West was concluded which plans to start drilling this summer. Subsea tieback to be installed H1 2025 to the Anasuria FPSO. Peak production of 59,000 bpd

Oil trade value (£bn)



Upside potential: High sanctioning activity, more than 10 FIDs scheduled for the year

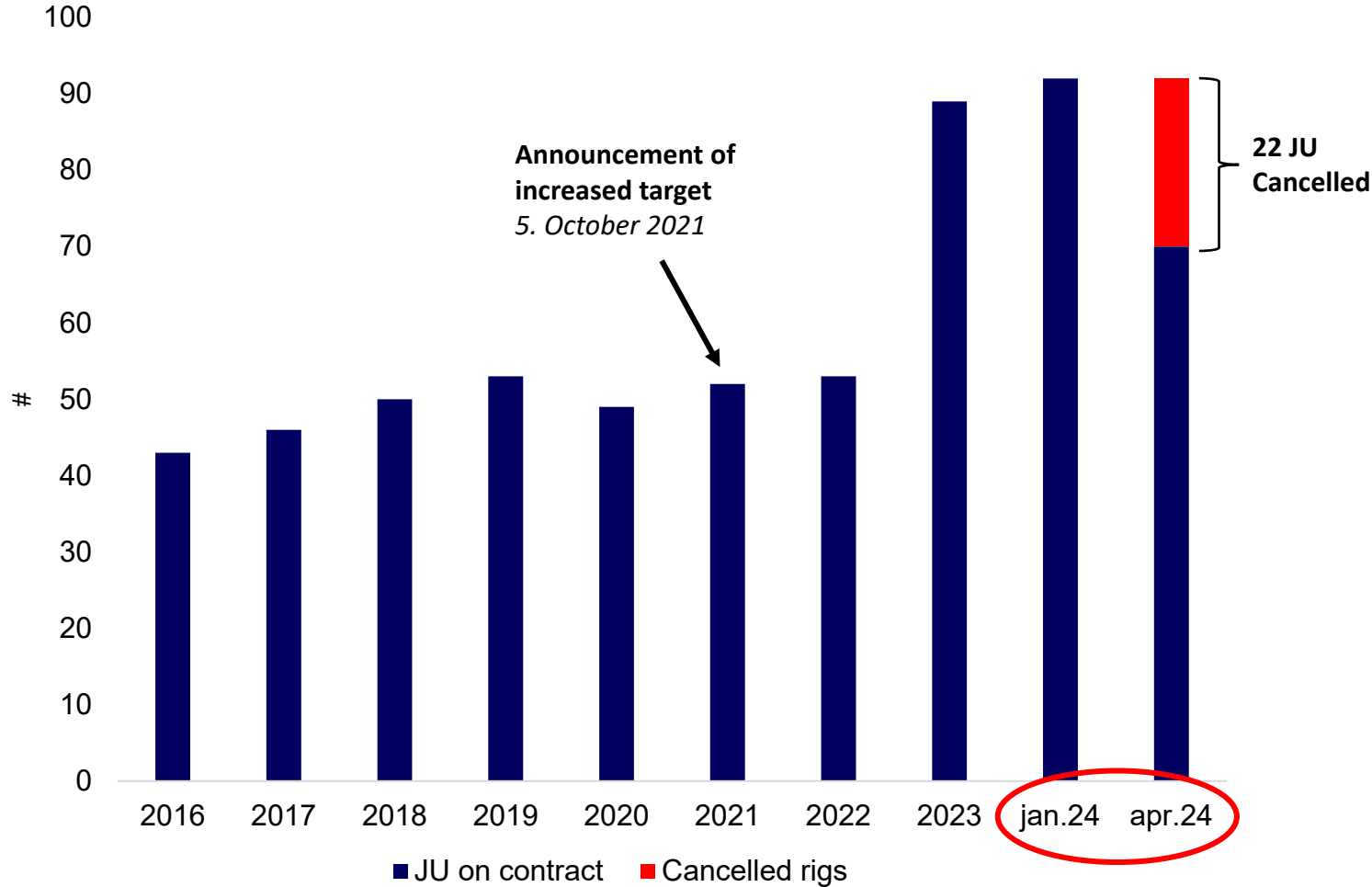
Downside potential: Labour Party wins general election

Saudi Aramco cancels contracted Jack-ups



Aramco was instructed by the government in the country to reduce its output capacity target of 13 million bpd

Aramco – Jack-ups on contract



Aramco - Projects to come on stream

2024 Damman +0.025 million bpd

2025 Berri +0.25 million bpd

2025 Marjan +0.3 million bpd

2026 Zuluf +0.6 million bpd

2027 Damman +0.05 million bpd

2027 Manifa +0.3 million bpd

2027 Safaniyah +0.7 million bpd

Mega projects currently on hold

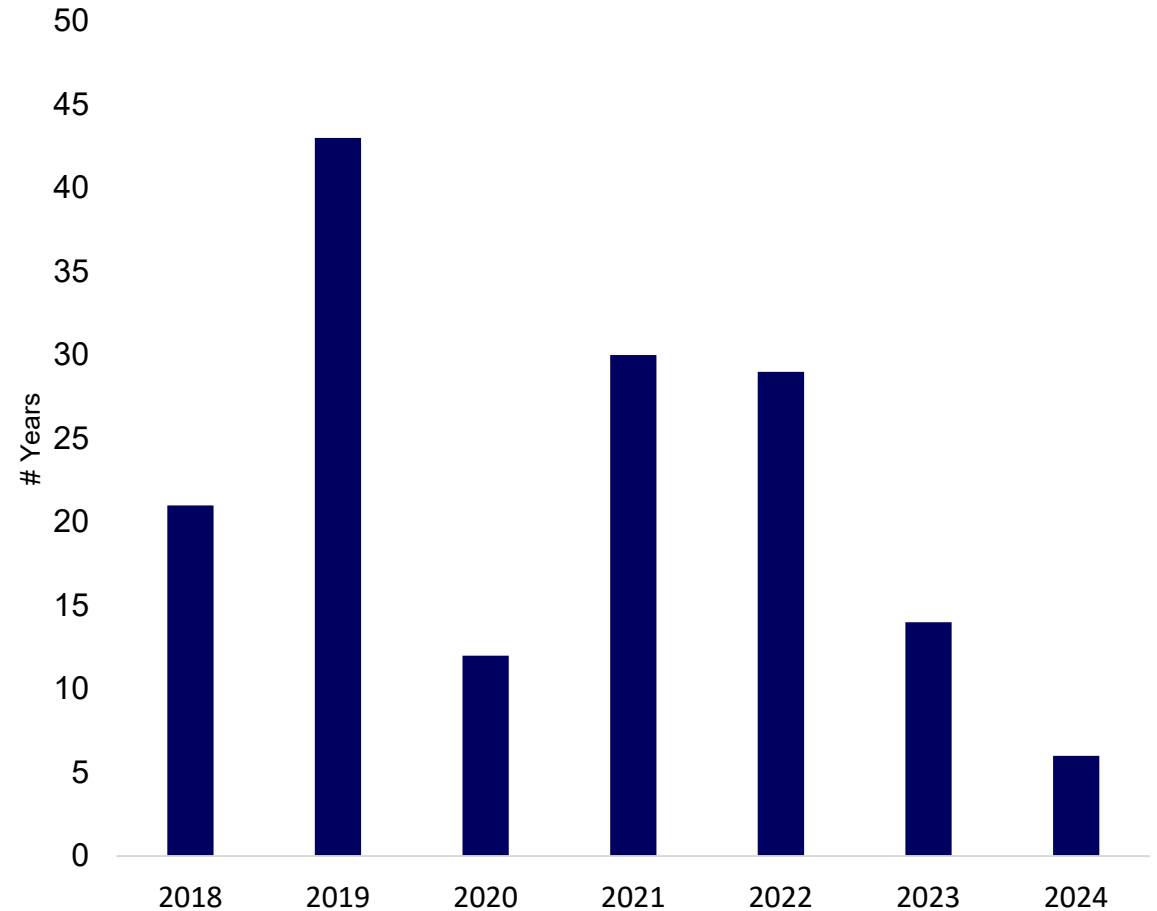
North Sea Jack-ups



Year	Supply	Contracted	Utilization
2017	46	25	54%
2020	40	25	62%
2023	32	30	93%

- Balanced conditions in the North Sea
- Several jack-ups rolling of contract in Q2 2025
- Jack-ups usually present lower lead times than floaters
- Dayrates might take a hit in the short-term due to Aramco announcement
- As several fields are closing in on end of life there has been a growing demand for P&A work scopes which is expected to persist

JU backlog added 2018-2024

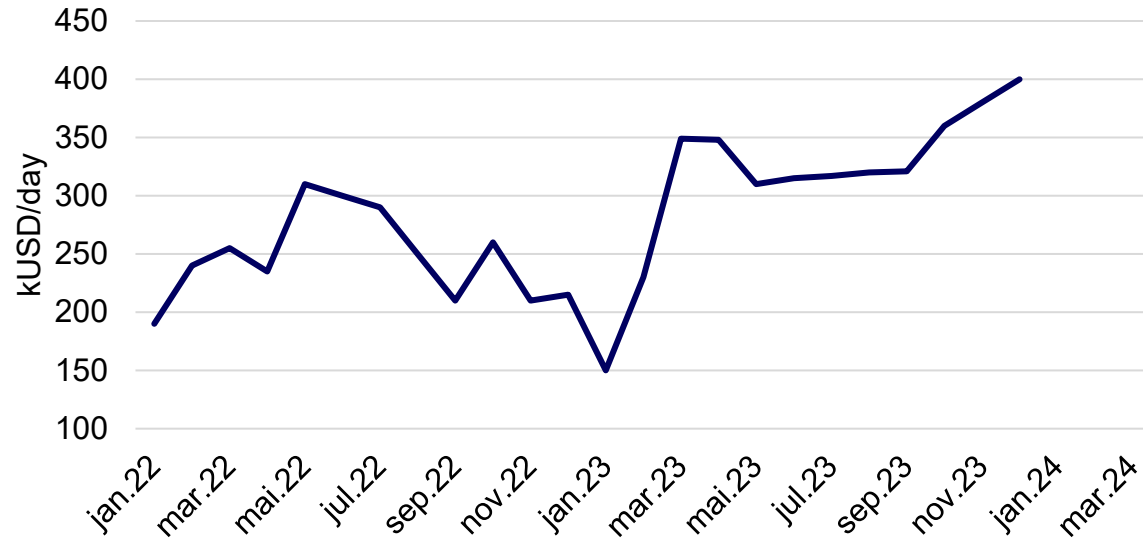


Source: SSY, Esgian Rig Service

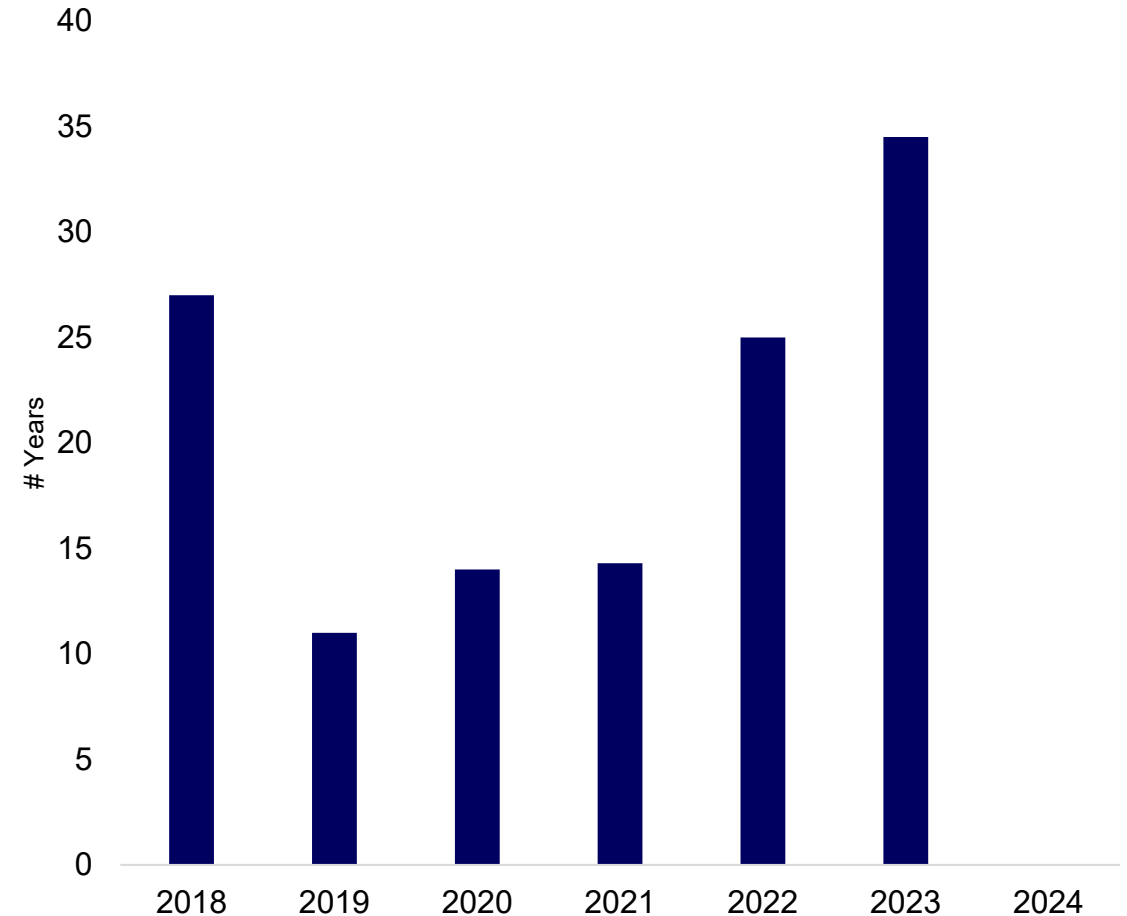
North Sea Semi-sub



SS North Sea avg. Dayrates



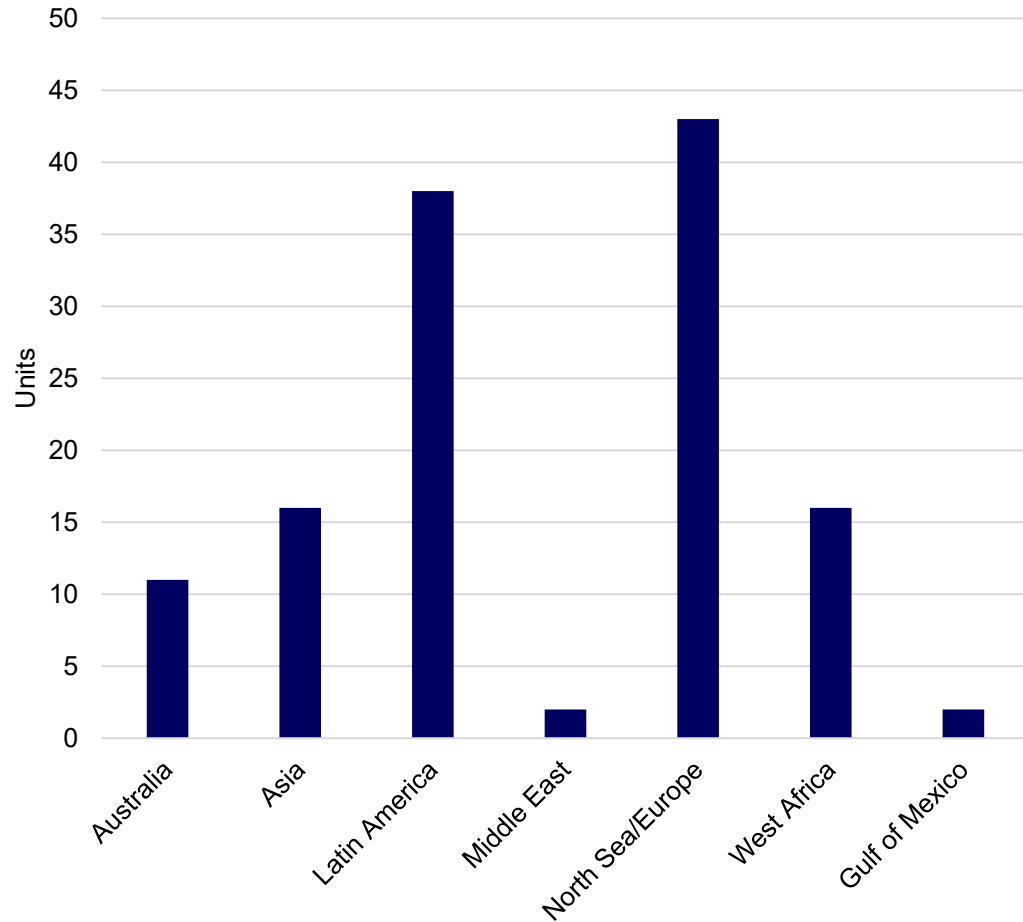
SS backlog added 2018-2024



- Currently 28 SS in the North Sea area
- Stagnating contract activity during 2019-2021
- Dayrates has been lagging other regions due to slow demand
- Tides turned in 2023 with average dayrates moving to \$300,000
- Balanced market and good visibility into end of 2025, might see some new contract towards the end of the year

Source: SSY, Esgian Rig Service

Current location of competitive AHTS fleet >200 BP



North Sea/Europe

Units: 43
Average year: 2010

Latin America

Units: 38
Average year: 2012
Brazilian flagged: 25

Asia

Units: 16
Average year: 2009

Australia

Units: 11
Average year: 2011

West Africa

Units: 16
Average year: 2012

Middle East

Units: 2
Average year: 2004

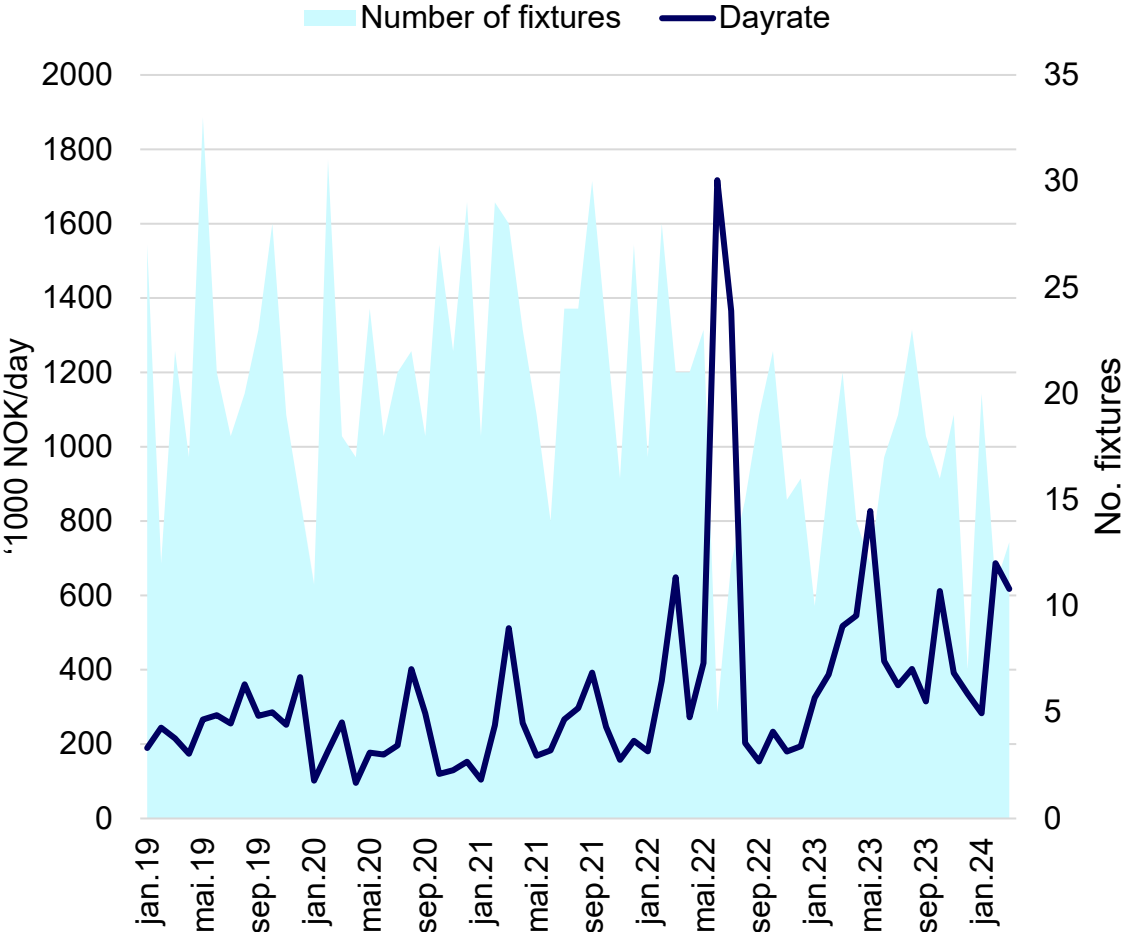
Gulf of Mexico(ex. US flagged)

Units: 2
Average year: 2006

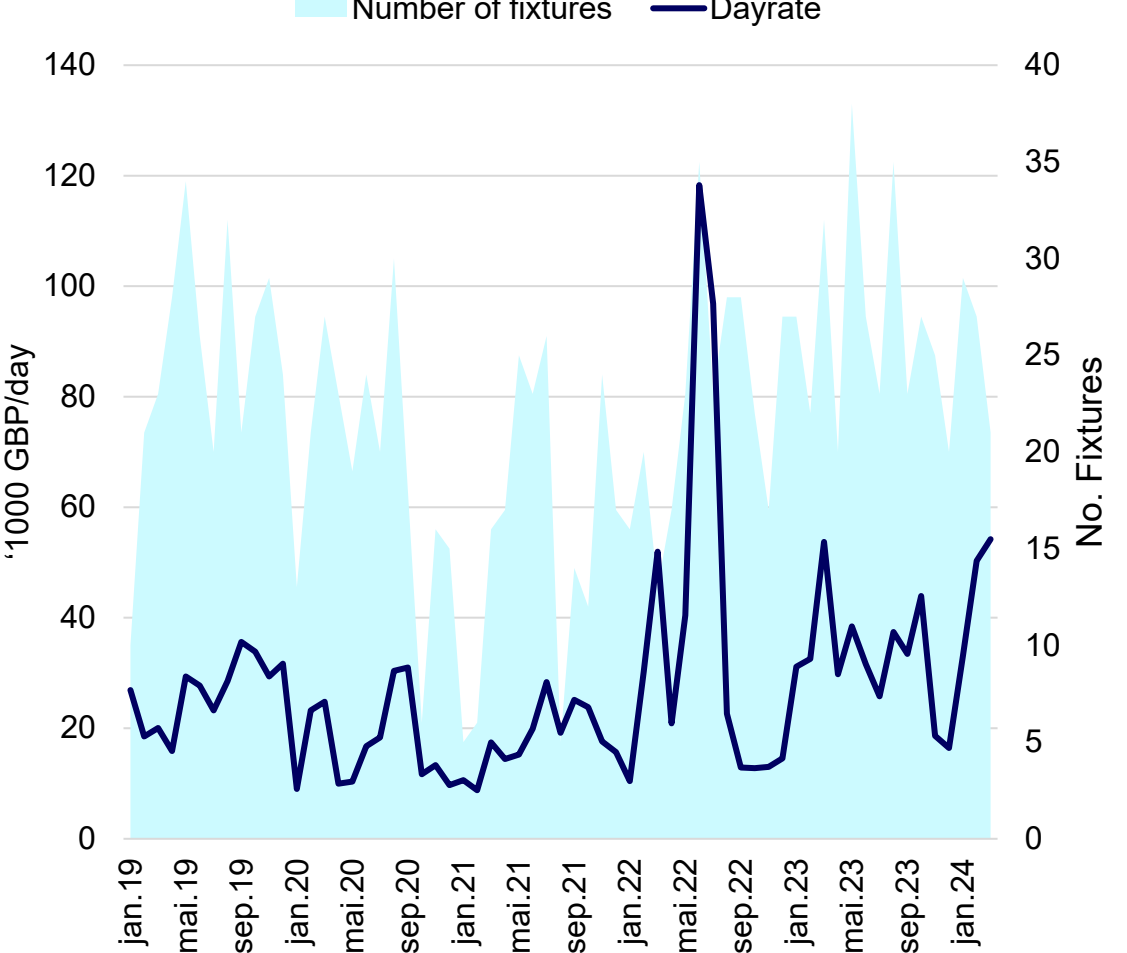
Norway and UK AHTS Dayrates



Norway - Historical AHTS Spot Rates

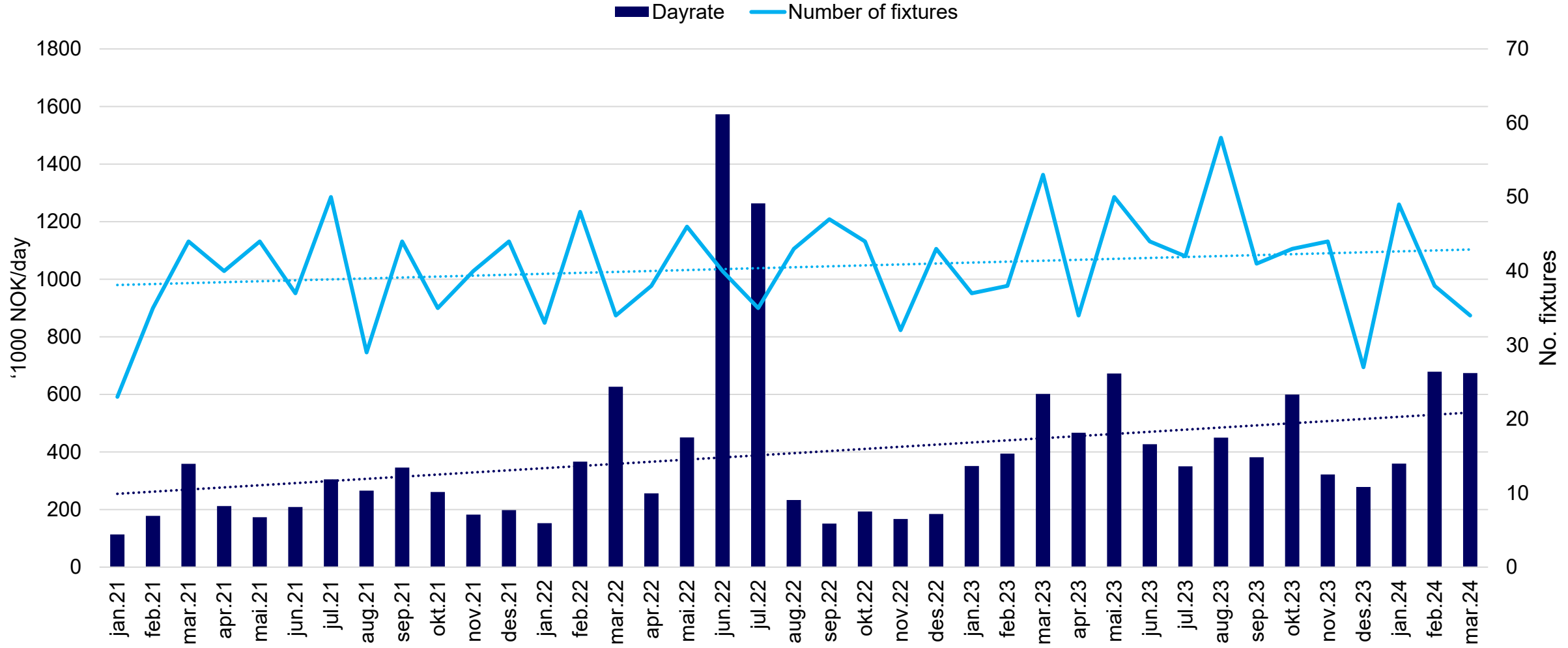


UK - Historical AHTS Spot Rates



Source: SSY
Market Update - MOP Kristiansand

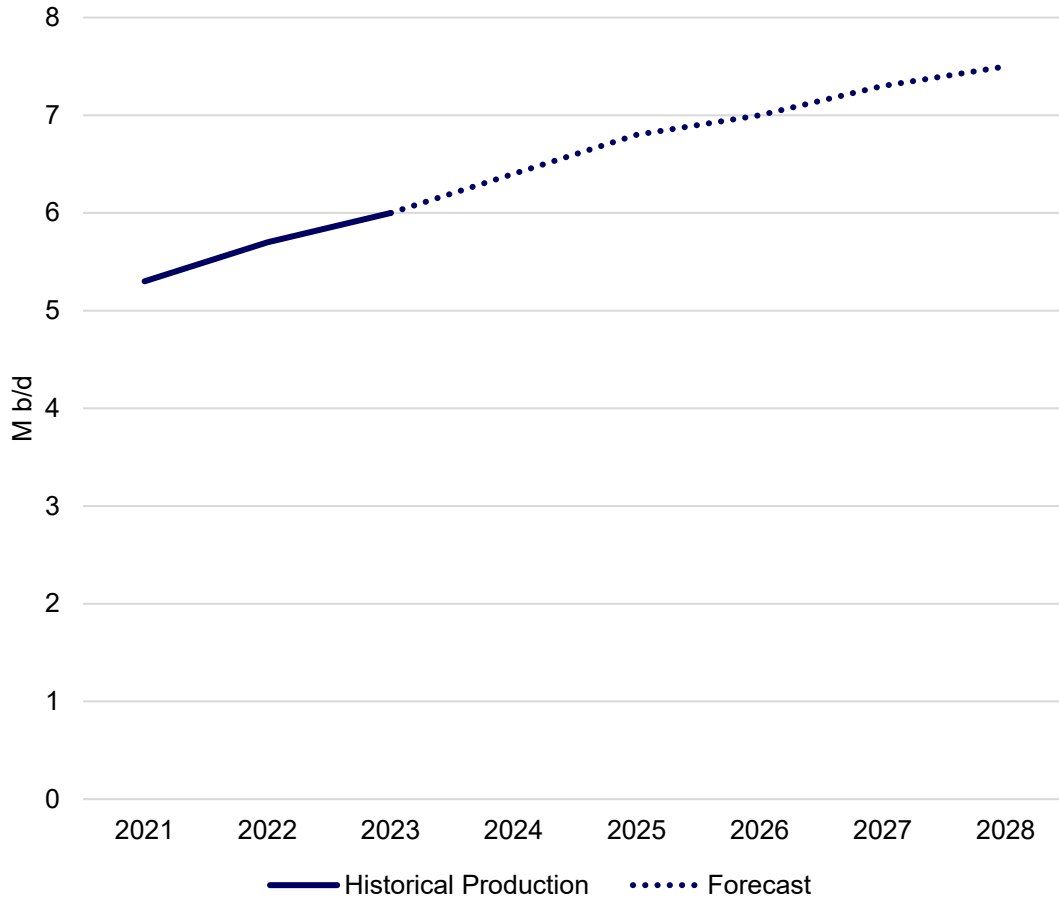
North Sea AHTS Dayrates



Latin America



Latin America – Expected production



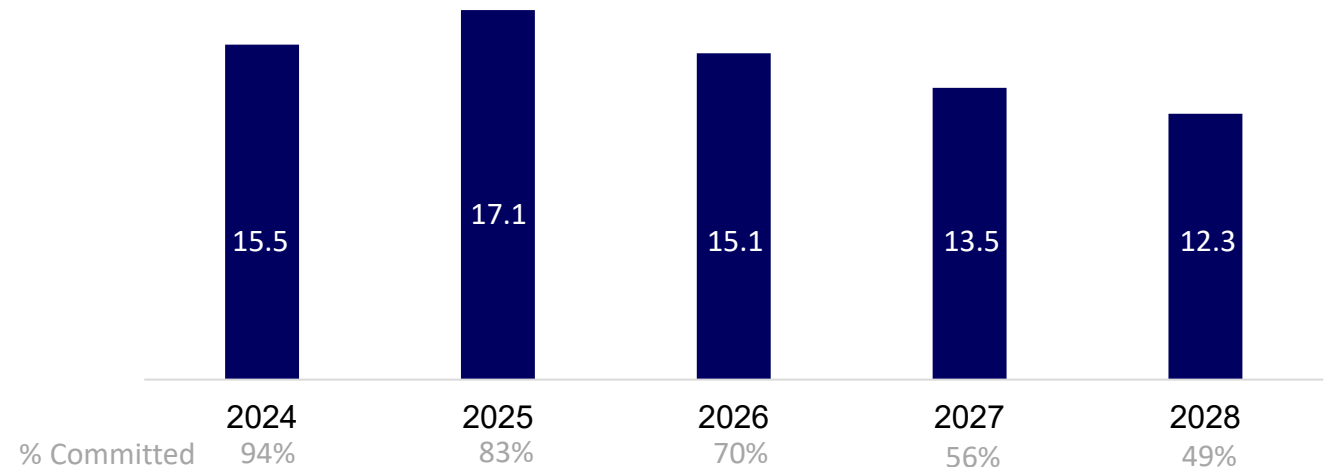
Source: IEA, Petrobras, SSY

Market Update – MOP Kristiansand

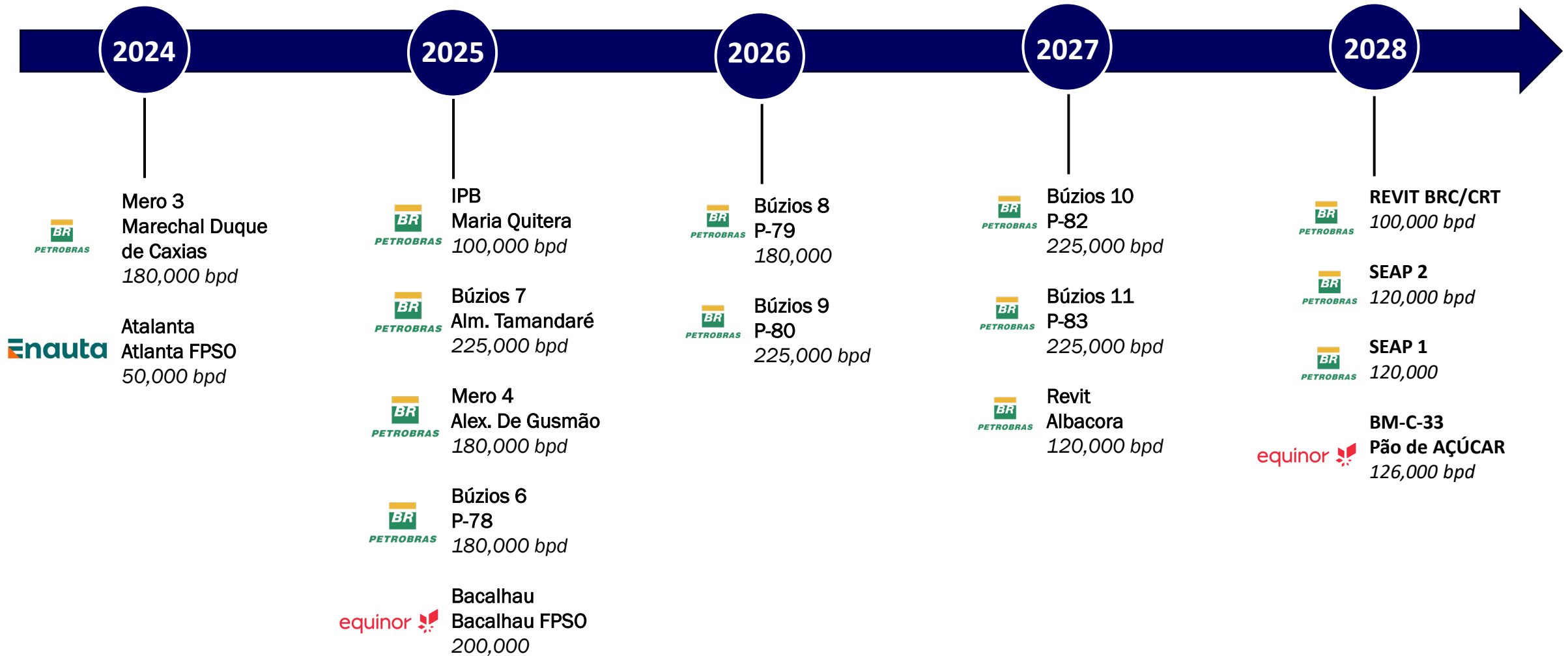
Market drivers

- **Guyana** currently has three operational FPSO's and ExxonMobil has plans of 1 new FPSO annually over the next five years. In addition, we saw eight new oil licenses being awarded in the country by end of October last year expected to increase semi-sub count in the country
- **Trinidad** is the 17th largest producer of natural gas with 25 of 30 fields located offshore. New fields are currently under implementation to increase the countries gas output, and we expect offshore activity to ramp up in 2025-2027
- **Suriname** is expected to launch two FPSOs within 2028 through the TotalEnergies/Apache JV
- **Brazil** has 16 FPSO's scheduled to be deployed within 2028

Petrobras E&P CAPEX – USD Billions



Brazil FPSO Schedule



Source: Petrorbas, Equinor, Enauta

Upoming FPSO installations 2024

- FPSO Tortue is set to be installed at BP's Greater Tortue Ahmeyim (GTA) project site in Q2 2024 on the coast of Mauritania and Senegal
- 1x FPSO and 1x FSO to be installed on the Phase 2 development of the Baleine Field in Cote d'Ivoire. Offshore operations are scheduled for Q3 2024



Source: Westwood, Market Research

Nigeria and Angola

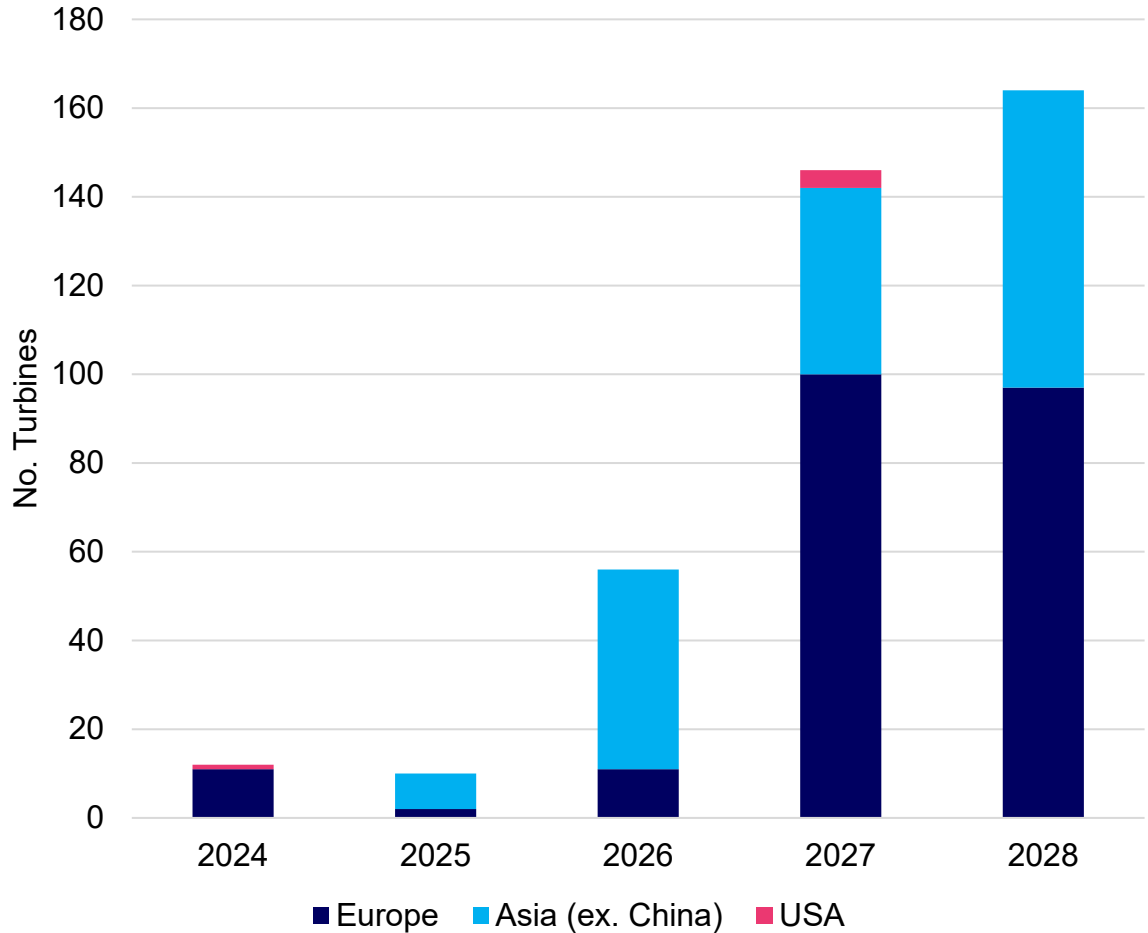
- Nigeria – New deepwater projects to come on stream
 - 2026 – TotalEnergies, Preowei Phase 1 (65,000 bp/d)
 - 2027 – Shell, Bonga North (120,000 bp/d)
 - 2029 – ExxonMobil, Owowo (160,000 bp/d)
- Angola – Status and outlook
 - Angola currently has five active drillships
 - Due to increased activity, we might see demand for three more rigs during 2024/2025
 - Five FPSO's are expected to be deployed in Angola towards 2030.
 - Two by Azule, a BP/Eni JV
 - Two for TotalEnergies
 - One by Somoil, a local operator

FPSO overview

- There are currently roughly 200 FPSO operating globally with 56 FPSO units in the global fleet reaching the end of their design life in the next five years
- Nigeria and Angola has both roughly 15 FPSOs each operating in their waters. Nigeria represents a high average age for the FPSOs of 30 years
- As the oil industry in the region is growing and putting excess effort on safety and better conditions for workers, we expect new FPSOs to be contracted during 2024

Floating wind

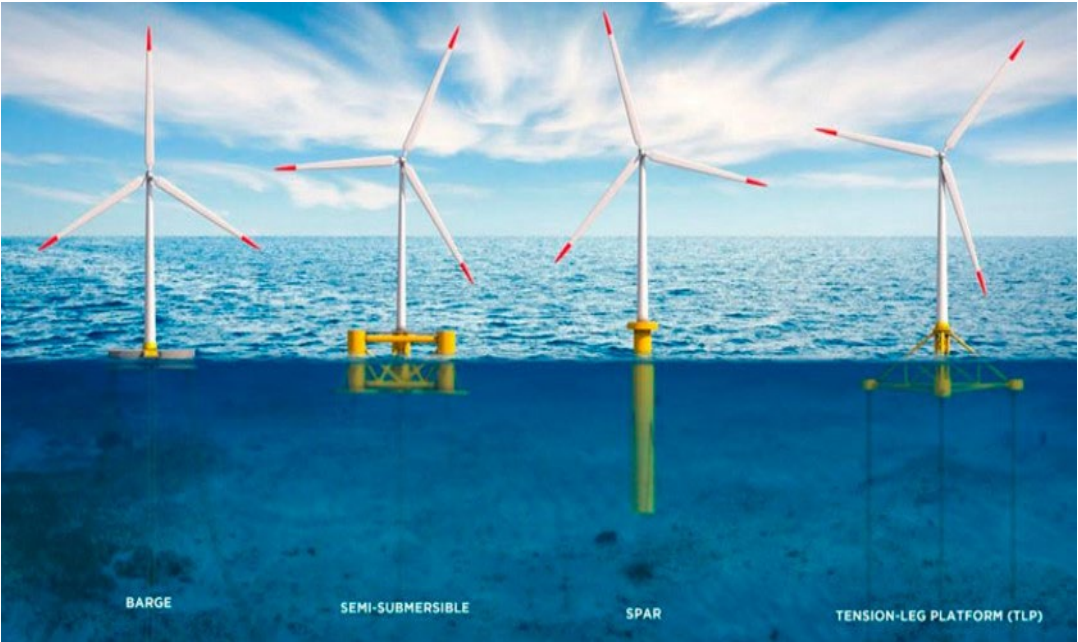
Floating wind turbines to be installed



Source: Esgian Wind Analytics, SSY, GWEC

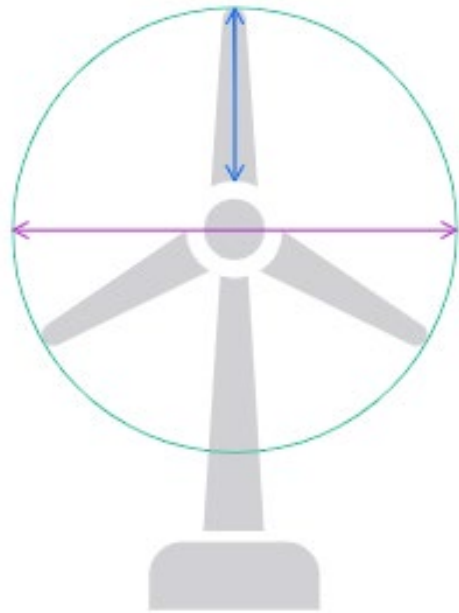
AHTS requirements will be technology dependent

- Vessel requirements for floating wind will be dependent on the turbine size and floating technology
- Weight and anchor/mooring specifications comes in variations, and we see total displacement of the floaters ranging from 3,500 tons to 22,000 tons with similar turbine sizes



Turbine sizes set to increase

Vestas 15 MW V236-15.0 Details



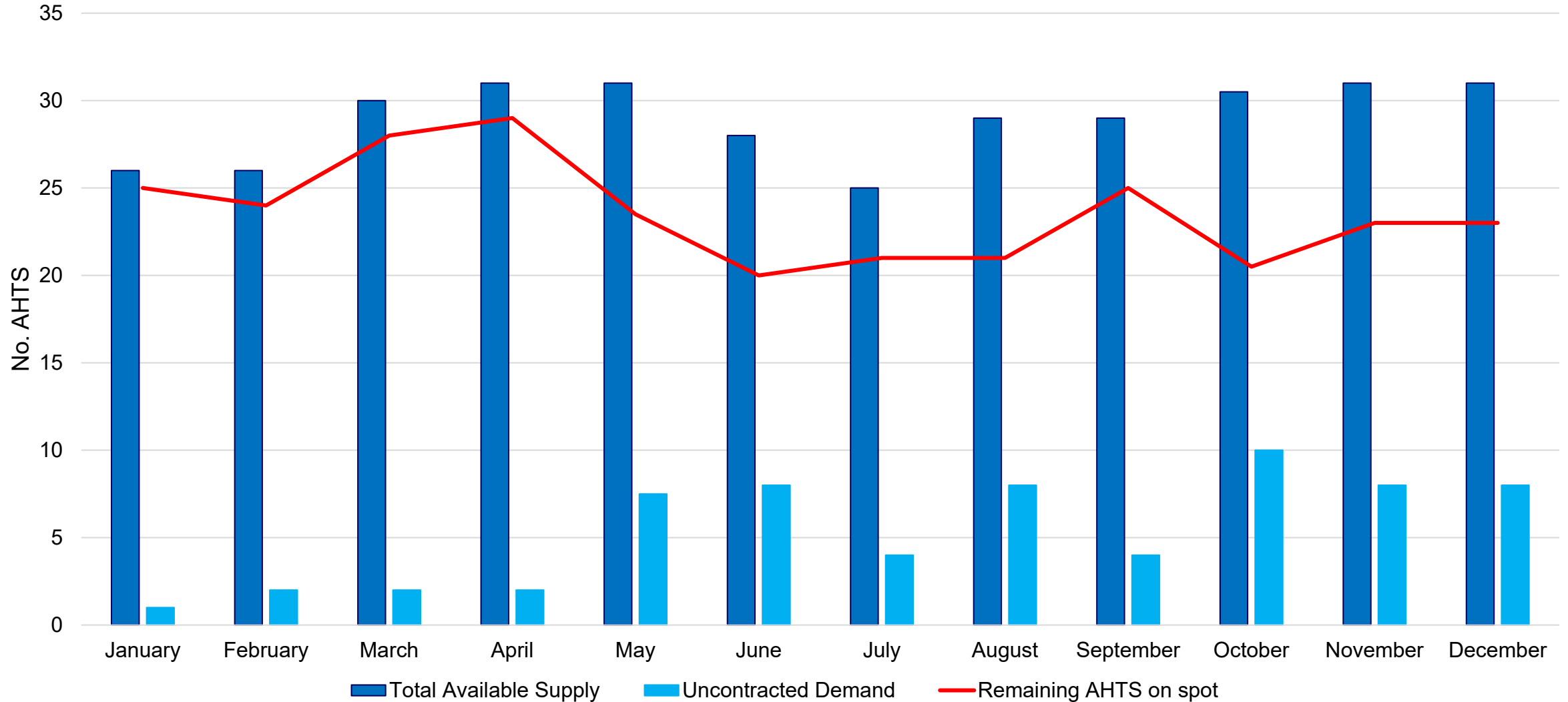
● Swept area (m ²)	43742
● Blade length (m)	115
● Rotor diameter (m)	236

2023 Turbine contracts (ex.China)

Contract Award Date	Wind Farm	Country	Turbine Supplier	Turbine Model	Turbine Nominal Power	No. Turbines
22/12/23	HKZ West VI	Netherlands	Vestas	V236-15.0	15	52
20/12/23	Norfolk Boreas	United Kingdom	Vestas	V236-15.0	15	93
20/12/23	Norfolk Vanguard	United Kingdom	Vestas	V236-15.0	15	186
20/12/23	Hornsea 3	United Kingdom	Siemens Gamesa	SG-14.0-236	14	204
13/12/23	Niigata Tainai	Japan	GE	Haliade-X 18	18	38
13/12/23	Akita Oga	Japan	Vestas	V236-15.0	15	21
13/12/23	Nagasaki Saikai	Japan	Vestas	V236-15.0	15	28
28/11/23	Aphae	South Korea	MingYang	MySE6.45-180	6.45	13
26/10/23	Dadaepo	South Korea	Shanghai Electric	SEW8.5-230	8.5	12
1/05/23	Anma	South Korea	Siemens Gamesa	SG-14.0-236	14	38
20/04/23	Baltica 2	Poland	Siemens Gamesa	SG-14.0-236	14	107
1/03/23	Wando Geumil	South Korea	Vestas	V236-15.0	15	40
28/02/23	Nordsee 2	Germany	Vestas	V236-15.0	15	29
28/02/23	Godewind	Germany	Vestas	V236-15.0	15	15
28/02/23	Nordsee 3	Germany	Vestas	V236-15.0	15	28
28/02/23	Delta Nordsee	Germany	Vestas	V236-15.0	15	32
12/01/23	Thor	Denmark	Siemens Gamesa	SG-14.0-236	14	72

Source: SSY, Esgian Wind Analytics

Supply / Demand 2024



Concluding remarks



- Norway is increasing oil production over the next years, and we expect high offshore activity levels
- The rig market in the North Sea currently seems balanced and we expect high utilization for what remains
- AHTS market has previously shown poor utilization, but we expect supply in the North Sea region to shrink and activity to increase
- Floating wind is expected to come on top of existing demand for large AHTS from 2027
- High season this year will be busy for AHTS!

Contact us



Offshore Analyst

Johan Gustafsson

E: j.gustafsson@ssyglobal.com

P: +47 91 63 19 12

Disclaimer

While every care has been taken to ensure that the information in this presentation is accurate, SSY can accept no responsibility for any errors or omissions or any consequences arising therefrom. Figures are based on the latest available information, which is subject to subsequent revision and correction. The views expressed are those of SSY Consultancy and Research Ltd and do not necessarily reflect the views of any other associated company. Reproducing any material from this presentation without permission from SSY is strictly prohibited.

Further information on our terms and conditions can be found at: <https://www.ssyglobal.com/legal/client-terms-and-conditions>



Experience Matters.