# **DEEPWATER DEVELOPMENT**

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London, UK

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## Westwood Global Energy Group

Global Floating Production Systems
Near Term Opportunities & Challenges

March 2023

Mark Adeosun

Director SubseaLogix & PlatformLogix



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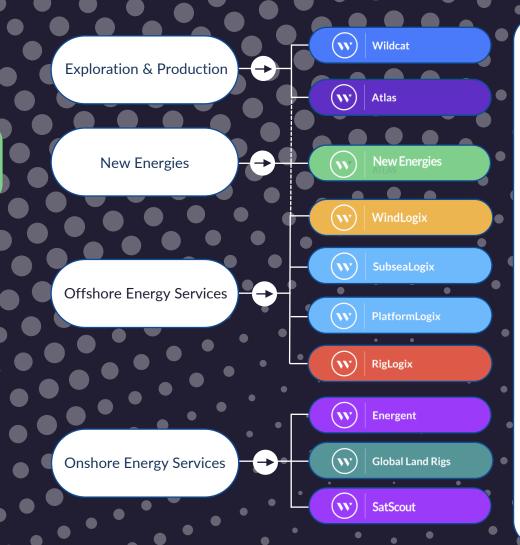
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Focusing on underserved areas

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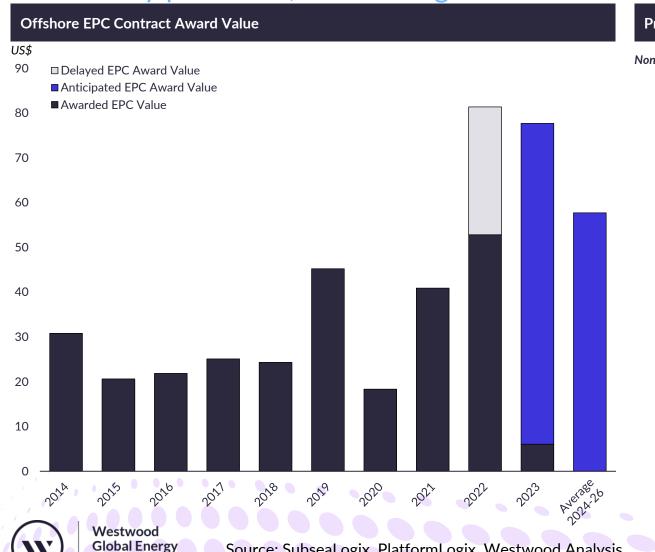
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#### Offshore EPC Market Outlook

2022 Offshore EPC award value closed at \$53bn, a 29% increase YoY. Despite supply chain inflationary pressures, contracting activities are forecast to remain robust in 2023 at \$78bn.

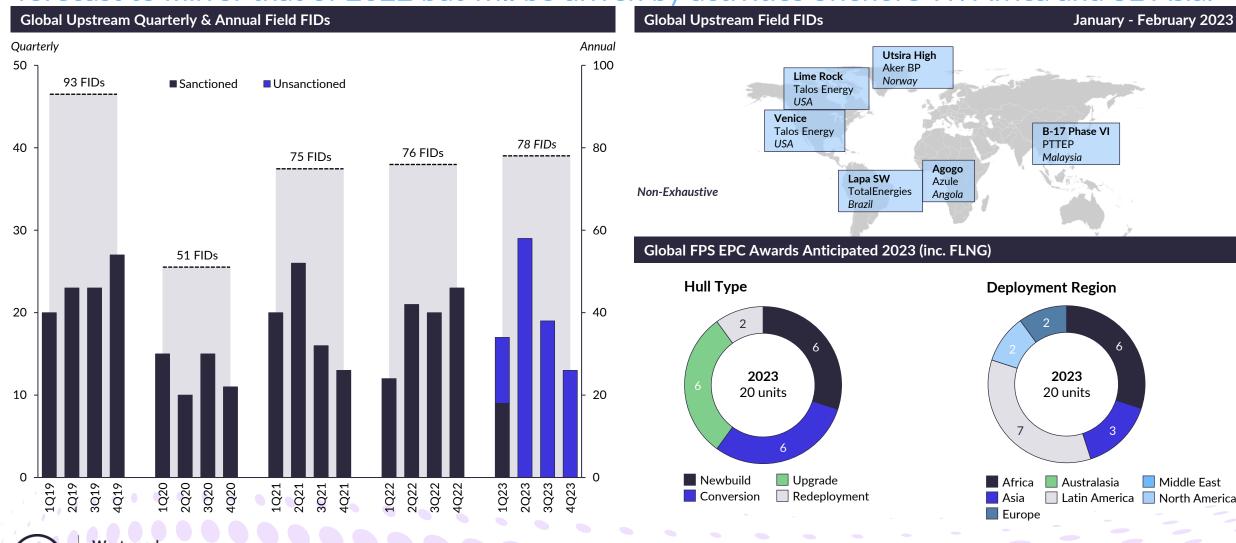


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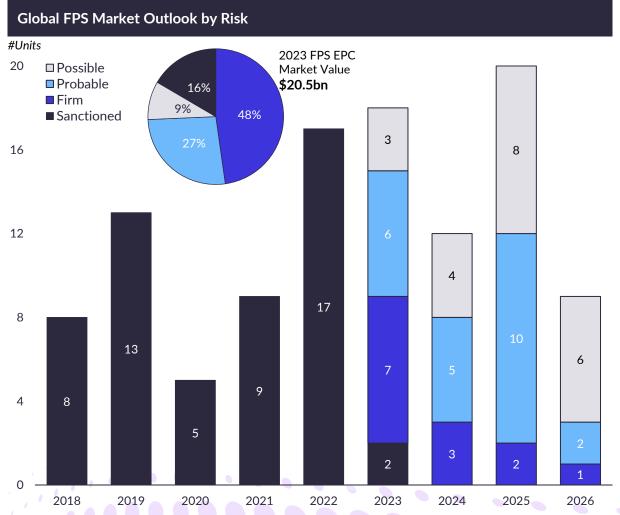
Westwood recorded 16 FPS EPC contract awards in 2022. including Newbuilds, Conversions, Upgrades/redeployments. However, during the cause of the year, 10 anticipated FPS awards were delayed/cancelled.

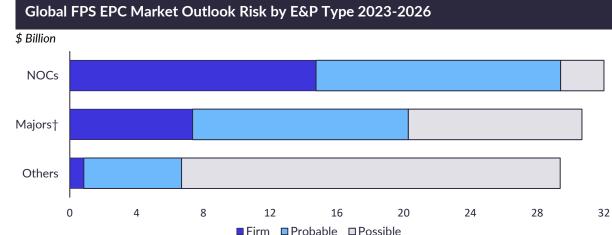
Offshore Field Development
76 Upstream FIDs were recorded in 2022, with Europe accounting for 43%. 2023 FID count is forecast to mirror that of 2022 but will be driven by activities offshore W. Africa and SE Asia.



### **FPS Market Risk Analysis**

FPS EPC contracting opportunities over the 2023-26 period, including FLNG unit, is forecast at 57 units with an EPC award value of \$92bn\*.





- Over the 2023-26 period, NOCs account for \$32bn in forecast FPS EPC spend (35%); Majors† account for \$31bn (33%); and Others account for \$29bn (32%).
- "Firm" and "Probable" spend among the NOCs is led by Petrobras, whilst "Firm" spend among the Majors† is driven by ExxonMobil. The large "Possible" allocation in the Others category represents marginal gas projects.



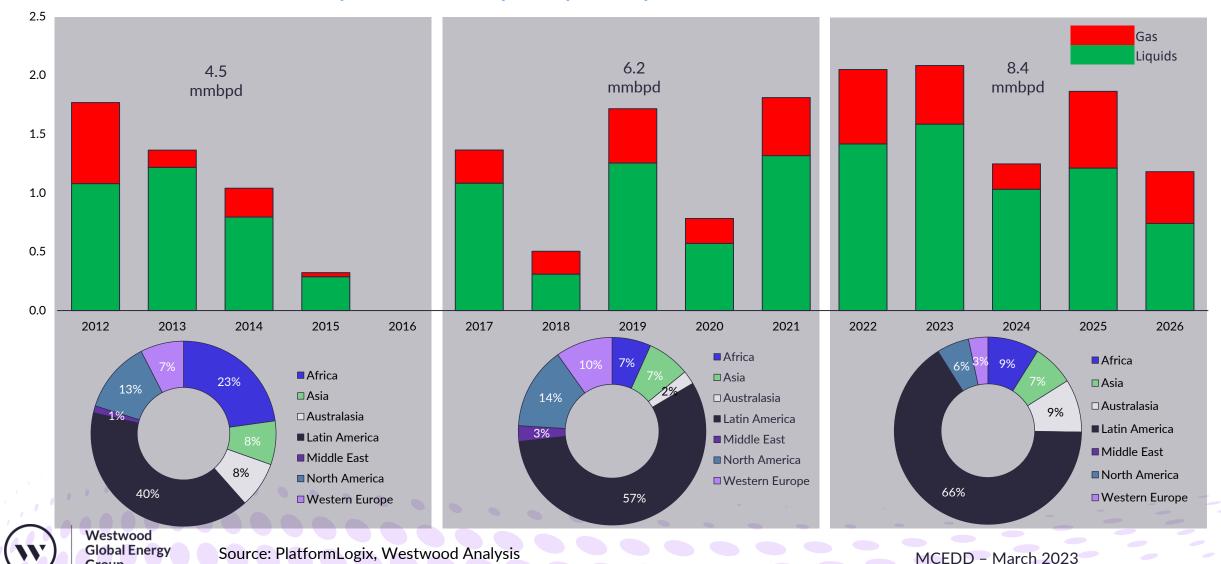
Source: PlatformLogix, Westwood Analysis

<sup>\*</sup> Excludes the PFLNG Tiga FLNG and Agogo FPSO units sanctioned in 1Q 2023. † Majors category includes BP, Chevron, ConocoPhillips, Eni, ExxonMobil, Shell, TotalEnergies.

### Record Levels of FPS Throughput Capacity

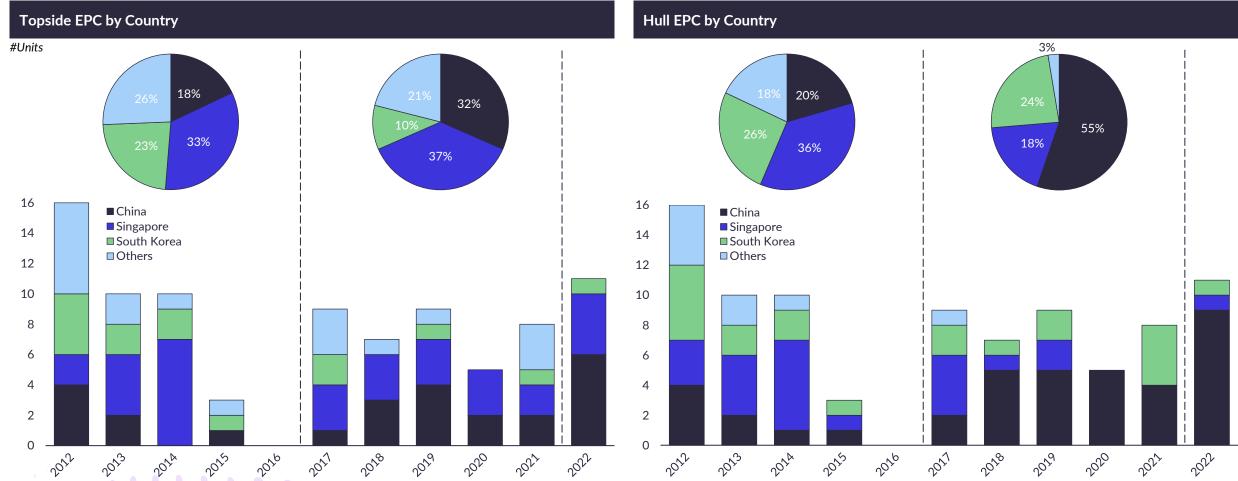
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2022 had the highest FPS throughput capacity sanctioned since 2010, with 2 mmboepd. An estimated 2.1 mmboepd of FPS capacity is expected to be sanctioned in 2023.



### FPS Newbuilds & Conversions Yard Activity Analysis

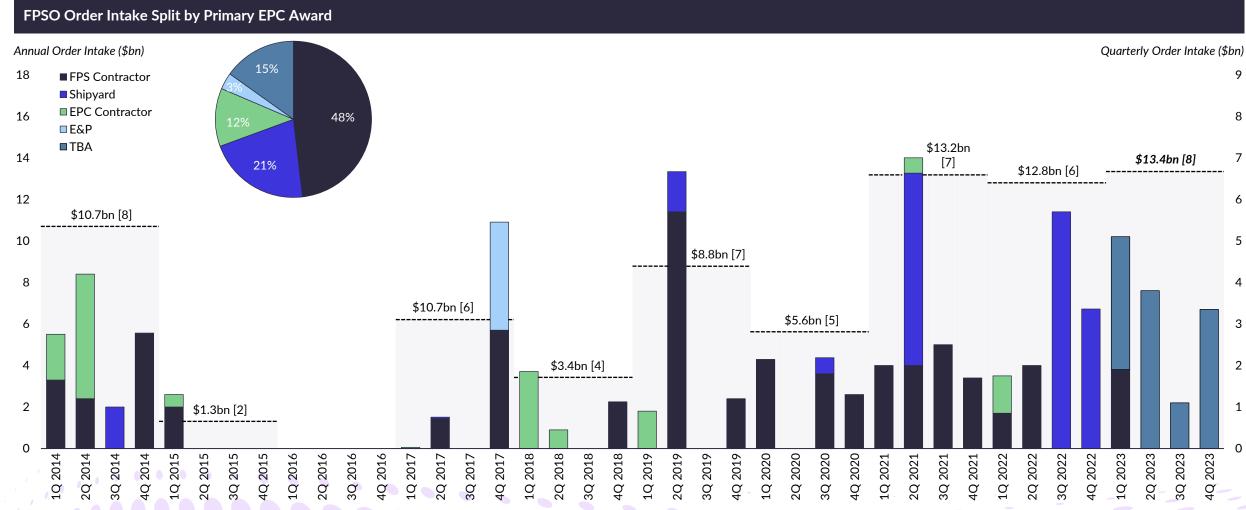
Comparing the 2017-21 period with 2012-16, S. Korea saw its share of the topside fabrication market fall to just 10%, whilst the proportion of hull EPC work in China increased significantly.





#### Offshore EPC Market Outlook

FPSO EPC award value totalled c.\$13bn in 2021 and 2022. However, more newbuilds were recorded in 2021, 7 units against 5 in 2022. Only two newbuild units are anticipated in 2023.

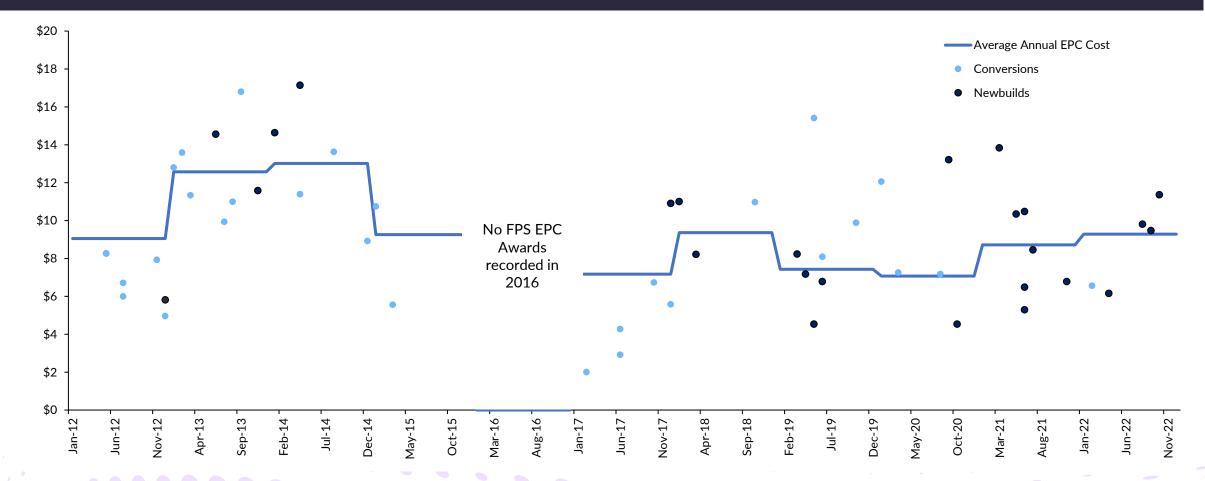




#### **FPSO Cost Analysis & Trend**

EPC contract awards in 2022 showed a continuation of FPSO cost inflation. This trend is set to continue, given underlining supply chain constraints and increasing FPSO demand.

#### FPSO Order Intake Split by Primary EPC Award



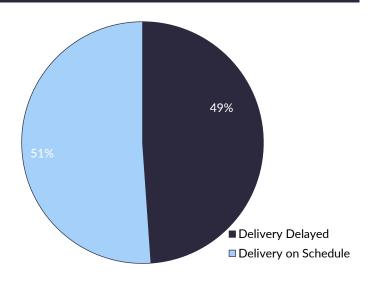


#### **FPSO Delivery Delays**

Pre Covid-19 pandemic, the FPSO industry had been ladened by a legacy of delivery delays. This could be worsen in the near-term due to the impact of the pandemic & Labour shortage.



#### FPSO Delivery Delays 2016-2022



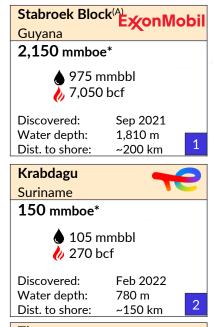
\* FPSO Delivery count only accounts for Newbuilds and Conversions that experienced at least six months of delays from the initial planned delivery schedule at the time of EPC contract award.



Potential Upside in Recent High Impact Discoveries
Recent high-impact discoveries offshore Guyana and exploratory success offshore Namibia

represents an upside for FPSO EPC opportunities in the latter years of the forecast and beyond.

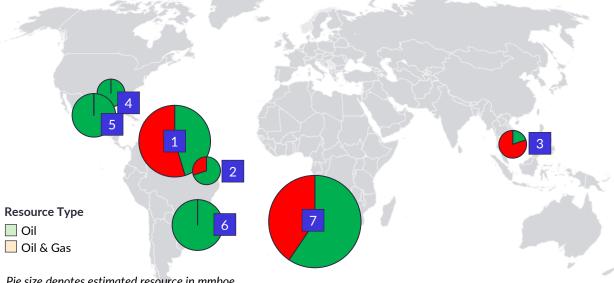
#### 2021-22 High Impact Discoveries for Oil & Gas Plays



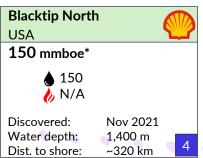
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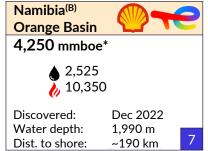


- (A) ExxonMobil made 12 commercial discoveries on its Staboek block offshore Guvana in 2021-22. which in total represent 2,150 mmboe in estimated resources classified under Discovery -Commercial. Non-operating partner Hess has stated that the block will support up to 10 FPSOs. of which four have been sanctioned.
- (B) Four exploration wells have been drilled in the Orange Basin offshore Namibia, with many more planned. No post-drill resources have been announced.
- \* Mid-Case (typically P50) Resource Estimates taken from Westwood's Wildcat product.











Source: PlatformLogix, Wildcat

### **Key Takeaways**

- Supply chain inflationary pressure causing FID delays. However, a multi-year growth cycle is anticipated as global energy demand rebounds to pre-pandemic levels.
- Cost deflation, simplification and standardisation have seen FPSO unit costs fall dramatically over the past 5-7 years. However, an increase in tender activity since 2021 and supply chain challenges are driving cost inflation.
- Offshore EPC contract award value is forecast to average approximately \$68bn YoY over the forecast, underpinned by an assumption that Brent crude stabilises between \$70-\$90/bbl in 2023 and above \$65/bbl over the 2024-26 period.
- Recent high-impact discoveries in the Stabroek block offshore Guyana and exploratory success
  offshore Namibia could account for significant FPSO EPC contracting opportunities in the latter years
  of the forecast and beyond.





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