Floating Production Systems Market Outlook 2015 – 2019

Cobie Loper – VP Business Development & Business Planning February 2015



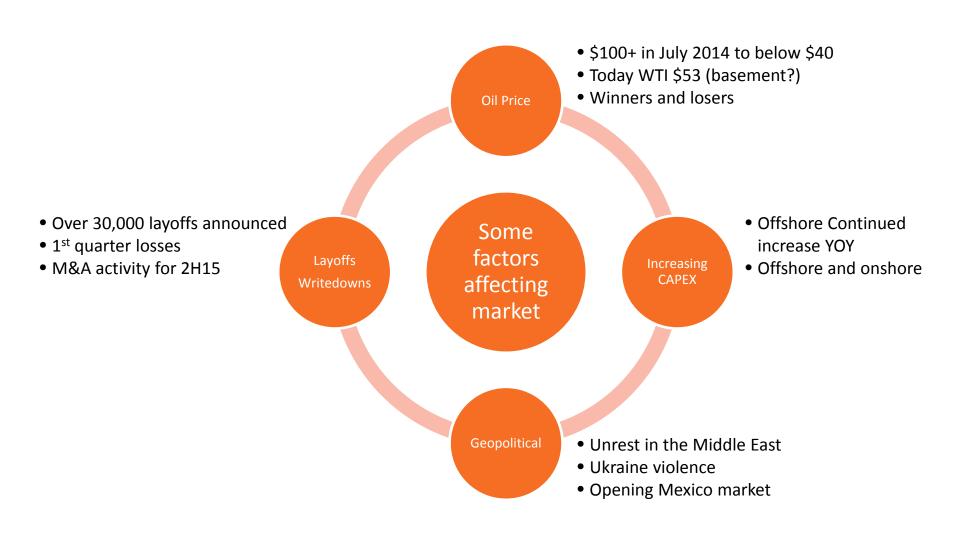


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The Market Today







Offshore vs. Onshore Shallow water vs. Deepwater

- Oil discoveries peaked in the 1960s
- Declining onshore and shallow water reserves has caused a long-term growth in offshore production
- Environmental impacts
- Mobility allows FPSs to be used for various applications in deepwater
- NA tight oil plays resurgence pulling capital onshore

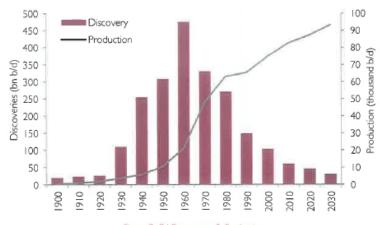


Figure 7: Oil Discovenes & Production

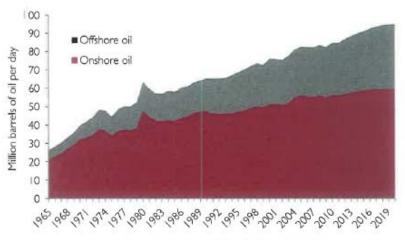
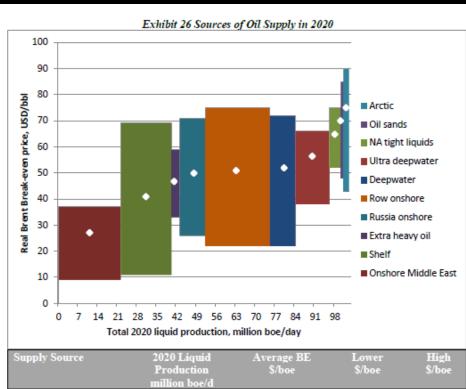


Figure 9: Global Oil Supply - Onshore/Offshore 1965-2020





Breakeven for Energy Supply Sources



Supply Source	2020 Liquid	Average BE	Lower	High
	Production	\$/boe	\$/boe	\$/boe
	million boe/d			
Onshore Middle East	22	27.1	9	37
Shelf	18	40.9	11	69
Extra heavy oil	2	46.7	33	59
Russia onshore	9	49.9	26	71
Row onshore	23	50.9	22	75
Deepwater	10	51.9	22	72
Ultra deepwater	4	56.4	38	66
NA tight liquids	8	64.8	52	75
Oil sands	4	70.0	48	. 85
Arctic	1	75.0	43	90

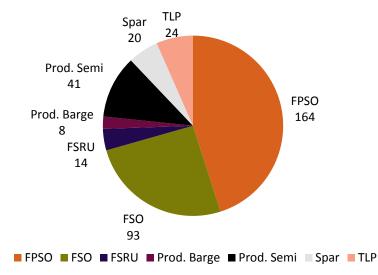
Source: Rystad Energy





Installed To Date

- 271 Floating Systems in service
 - FPSOs in Brazil & Africa
 - Semis in North Sea & Brazil
 - TLP & Spar in GoM

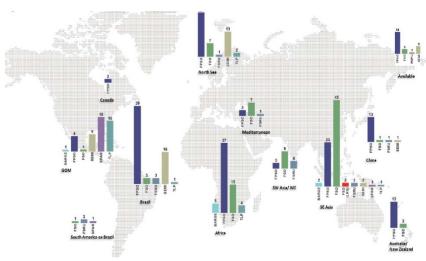












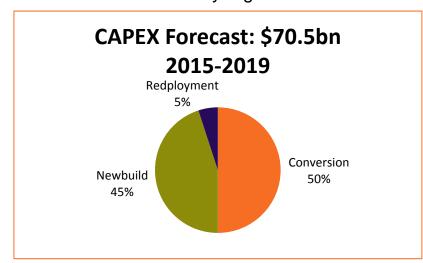


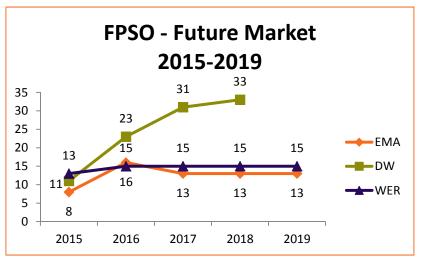


A sharp rebound has been seen in the past two down cycles

Year	Orders in down year	Orders in rebound year	
2004-2005	9 orders	20 orders	
2009-2010	7 orders	26 orders	
2017-2019	Average of 13 awards per year expected		

Africa is the only region with an increase in future awards based on previous years





Sources: EMA – Floating Production Systems Outlook Report 2015-2019 Forecast; Douglas Westwood World Floating Production Market Forecast 2014-2018; World Energy Reports Floating Production Systems 2015-2019; Industry Presentations; Upstream; Wood Mackenzie; Rystad Energy; BP Energy Outlook 2035.

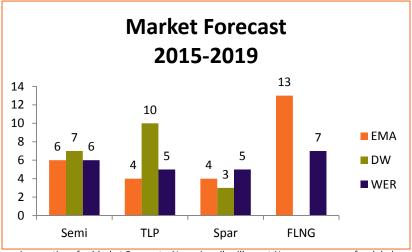




Other Floating Units

- 3 Semis ordered in past 5 years
 - 1 in 2011, 2 in 2012
- 5 TLPs ordered in past 5 years
 - 2 in 2011, 2 in 2013
- 6 Spars ordered in past 5 years
 - 3 in 2011
- No FLNGs are currently in operation; 7 units on order
 - 1. Exmar Caribbean FLNG
 - 2. Petronas Kanowit
 - 3. Shell Prelude
 - 4. Golar FLNG1
 - 5. Exmar's Speculative
 - 6. Petronas Rotan
 - 7. Golar FLNG2

Туре	CAPEX Forecast
Semi	\$6.7bn
TLP	\$1.9bn
Spar	\$3.8bn
FLNG	\$64.4bn*
	*Forecast is 2014-2020



Assumptions for Market Forecasts :No major oil spill event No reoccurrence of a global financial crisis similar to 08/09 or a crisis largely limited to Brazil





What does the Future look like?

 Project pace slowed due to oil price but longer term new projects are required to replace depleting fields

Oil price expectations for the next 5 to 15 years are in the \$60-\$105

Provider	Oil Price
EMA	\$60-\$80 range
DW	\$95-\$105 range
WER	\$80-\$100 range

- Activity in 2015 and early 2016 will be conceptual and FEED studies
- Offshore production will continue to expand
- NA tight oil impacted significantly by oil price
- Offshore projects are moving right but not being cancelled
- FPSO's will continue to dominate FPS market
- Potential for FLNG market growth





Continuous change is the norm for energy markets

Spencer Dale - Group Chief Economist, BP

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