Dynamic Challenges and Opportunities In The Global Oil and Gas Industries

Presented at: The 32nd JCCP International Symposium

By

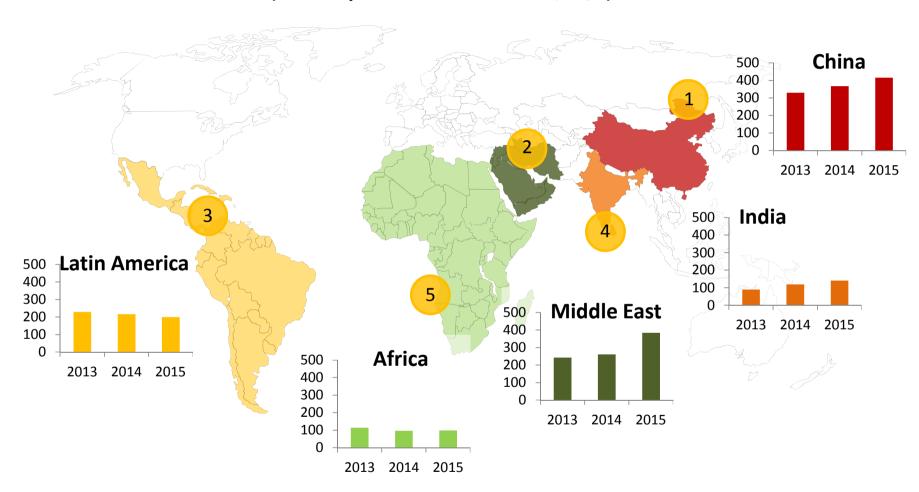
Dr. Fereidun Fesharaki Chairman

> January, 2014 Tokyo, Japan



Five Key Oil Demand Growth Centers

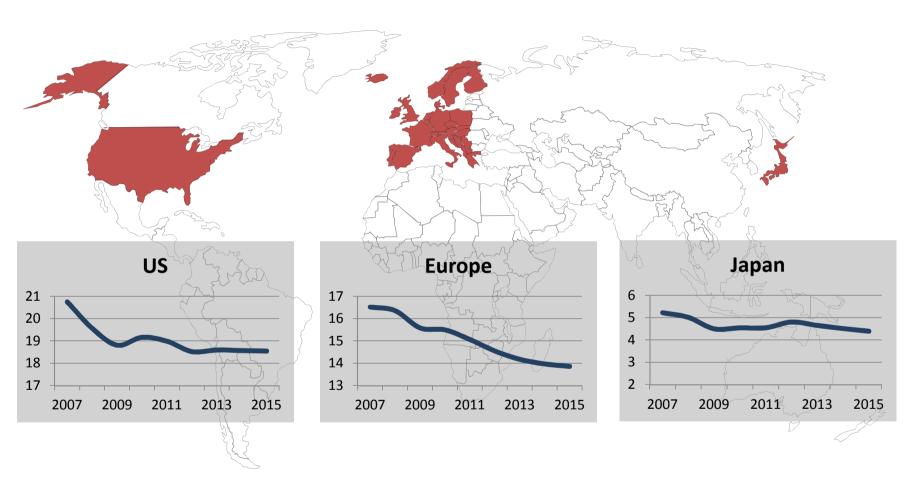
(Year-on-year Oil Demand Growth, kb/d)





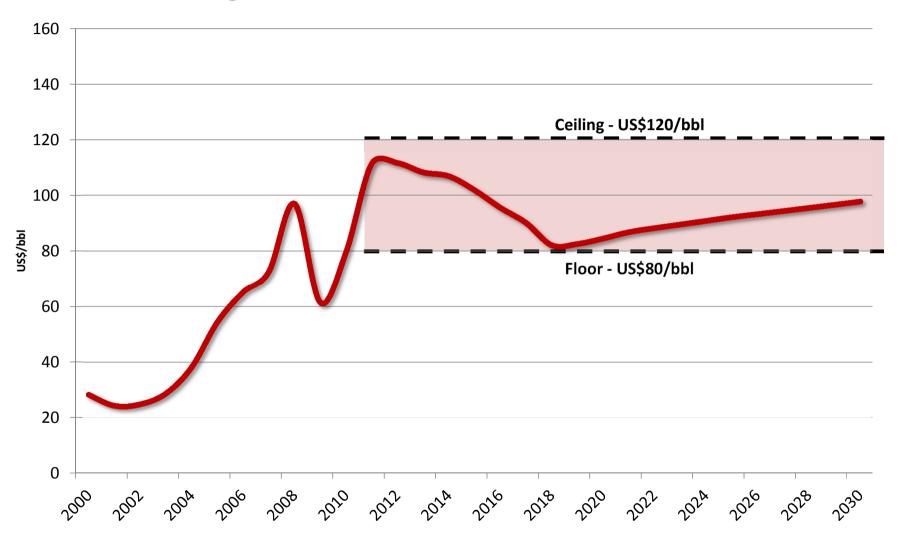
Three Centers of Oil Demand Loss

(Total Oil Demand, kb/d)



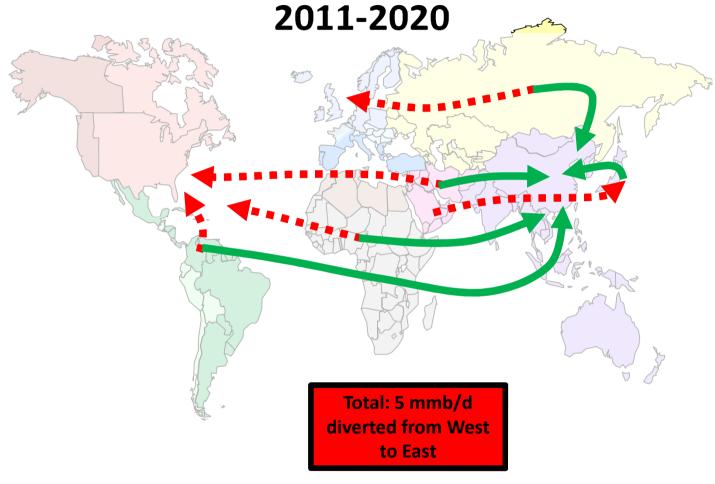


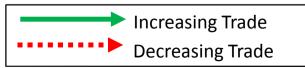
Long-Term Brent Oil Price Outlook





More Crude to be Diverted from West to East,

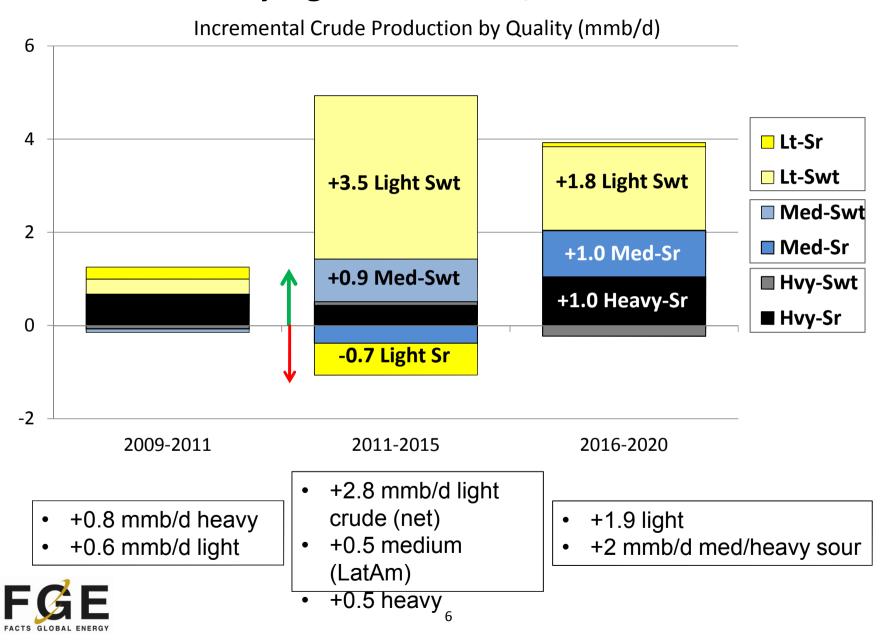






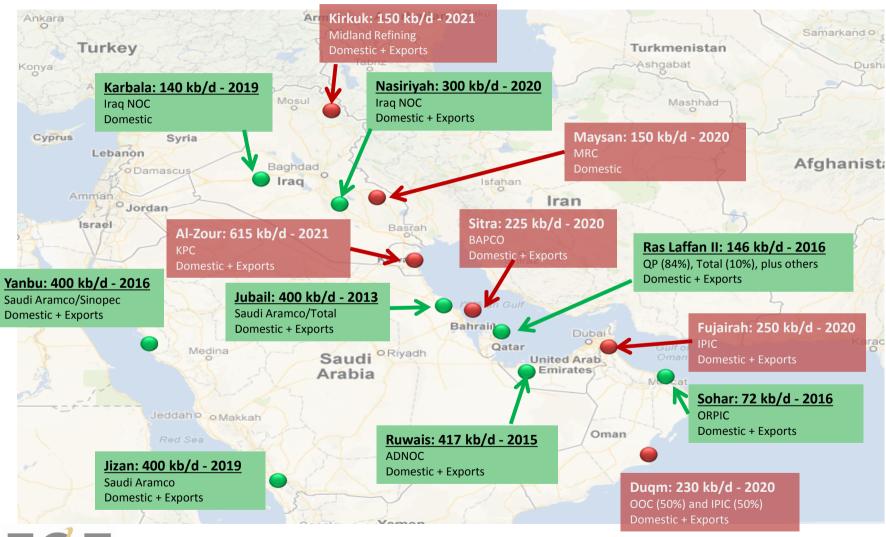
Source: FGE Crude Trade Study

Crude Quality Lightens to 2015, Then Static to 2020

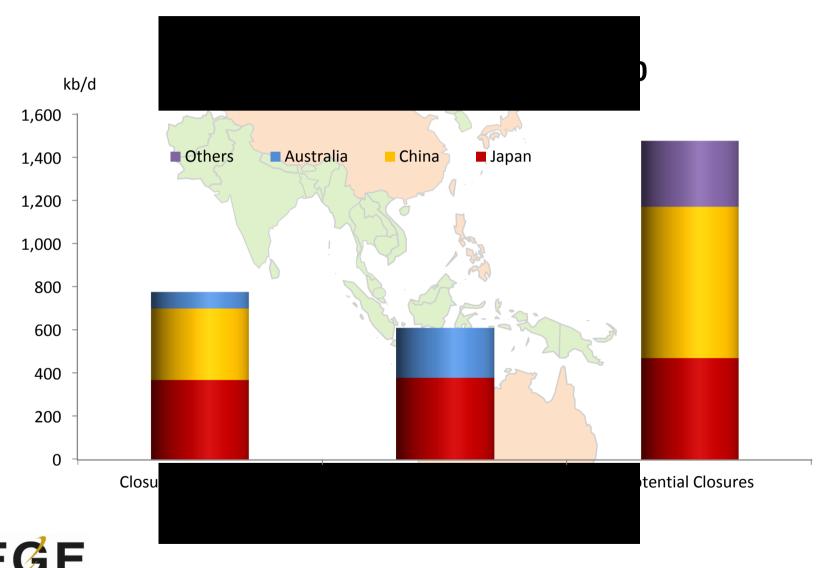


Major Refining Projects in the Middle East

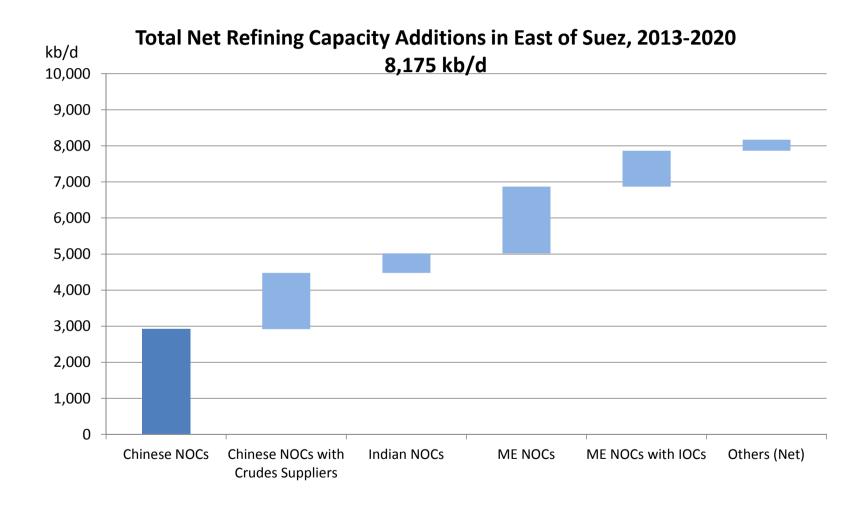
Key: Firm/likely by 2020 Not included in September 2013 product balances



Japan Leads Refinery Closures in Asia



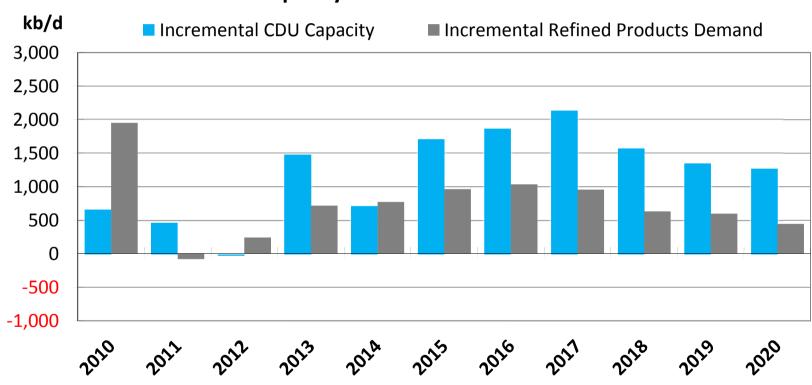
Who is Building East of Suez?...Why?





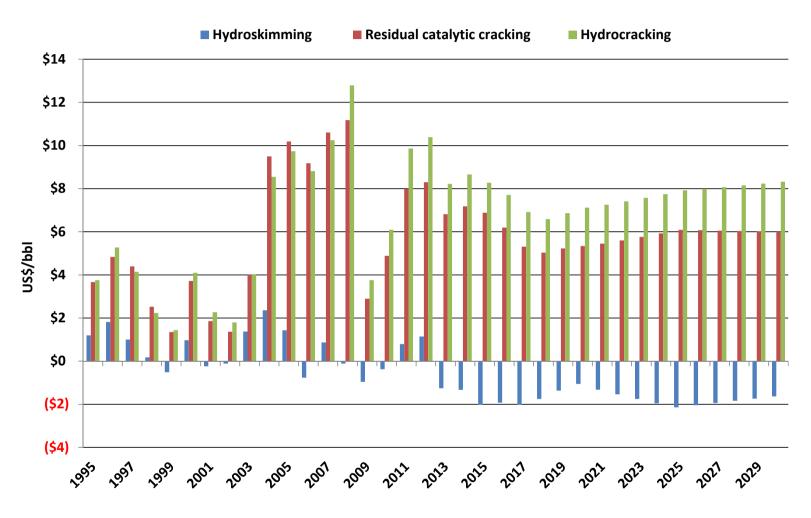
Even with Closures, Global Refinery Capacity Additions Overwhelm Demand Growth

Global CDU Capacity vs Refined Products Demand Growth





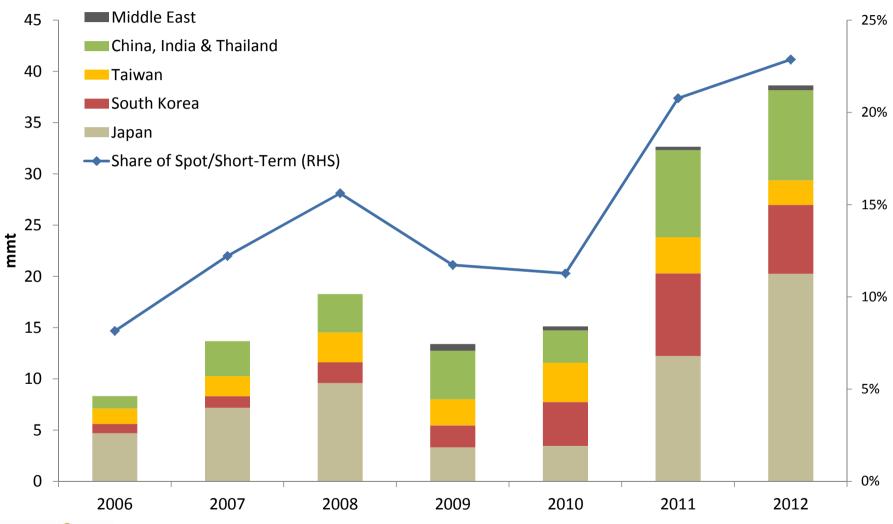
Refinery Margin Outlook



Singapore margins based on actual crude (Dubai) and product prices up to October 2013 and forecasts in \$2013 thereafter



Spot/Short-Term Buying has Risen Substantially





Note: Spot/short-term trade here is represented as a % of total East of Suez trade

New LNG Supplies = Big Bonanza?





Status of US LNG Export Projects

Latest Developments/Agreements Announced:

Sabine Pass Sales Purchase Agreements (SPAs)















5.5 mmtpa (T1-4)

3.5 mmtpa (T2) 3.5 mmtpa (T3)* 3.5 mmtpa (T4) 2 mmtpa (T5) 1.75 mmtpa (T5)

2 mmtpa (T2-4)^

^Up to 2 mmtpa of LNG produced but not committed to third parties. *0.7 mmtpa sold to Total Gas & power

Cameron LNG Commercial Development Agreements







4 mmtpa (T1)*

4 mmtpa (T2)*

4 mmtpa (T3)

*Mitsubishi & Mitsui will sell 0.8 mmtpa each to Japan's TEPCO; other similar arrangements could follow.

Dominion Cove Terminal Service Agreements





2.3 mmtpa (T1)*

2.3 mmtpa (T2)

*Sumitomo has in turn announced agreement to sell LNG to Tokyo Gas and Kansai Electric.

Freeport LNG

20-year tolling agreements



4.4 mmtpa (T1) Jointly lift the volumes.



4.4 mmtpa (T2) Entire volume of Train 2

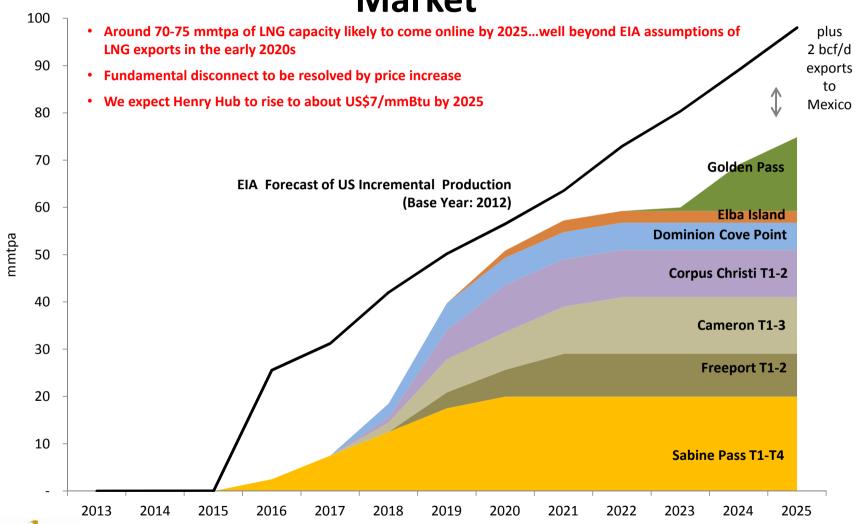




2.2 mmtpa each (T3)

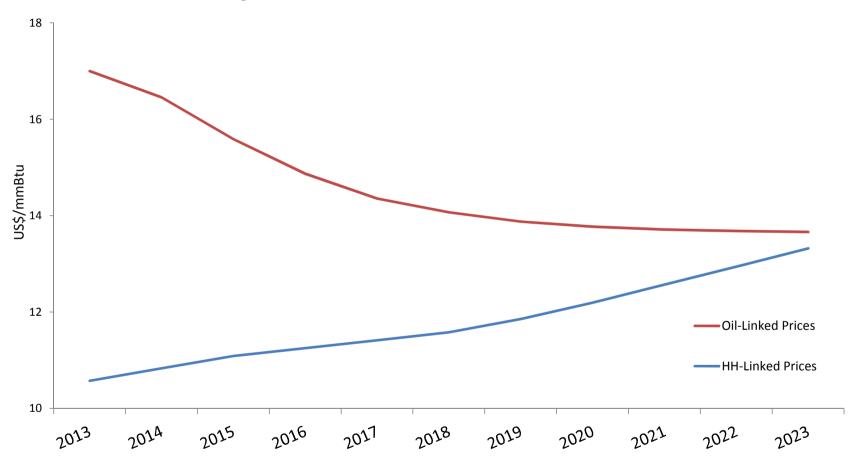


FGE's US LNG Export Outlook Suggests Tighter US Market





Forward Views: Henry Hub vs Oil-Linked Indexation





Thank You

Global Headquarters:

133 Aldersgate Street London, EC1A 4JA United Kingdom Tel: +44 (0) 20 7726 9570 FGE@fgenergy.com

Asian Headquarters:

8 Eu Tong Sen Street, #20-89/90 The Central, Singapore 059818 Tel: (65) 6222-0045 Fax: (65) 6222-0309 FGE@fgenergy.com

Global Offices:

Dubai, UAE +971 (4) 439-0451 Beijing, PRC +86 (10) 5869-5737 Honolulu, US +1 (808) 944-3637 Perth, Australia +(61) 402-000-565 Tokyo, Japan FGE.Tokyo@fgenergy.com New York +1 (714) 593-0603 California +1 (646) 733-7571 Jakarta (62) 8111-831-127



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