Crude oil – Is the bottom found?

2 March 2016Barnabas GanGlobal Treasury Research & Strategy



Executive Summary

The fall in crude oil prices may be overdone

- Crude oil has seen some rally in the last week, with WTI and Brent rallying to where it first started off in 2016. To date, the fall in crude prices have already been a twenty months phenomenon.
- Still, tell-tale signs of a bottom may be seen from (1) higher and steeper forward curves, (2) healthier speculative positions, and (3) healthy demand outlook in China, Europe and US.

Global oil production may fall eventually

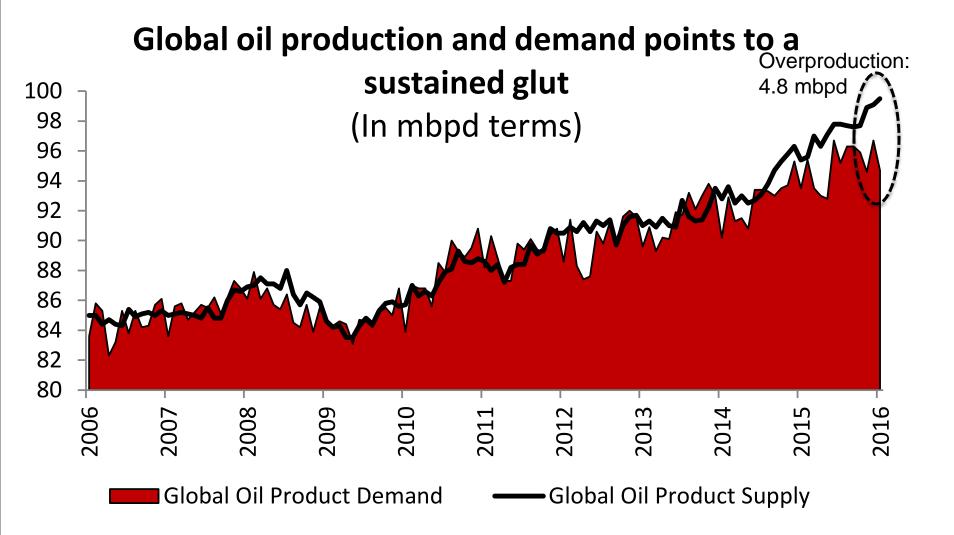
- Although upside in crude oil production remains, especially from Iran (and maybe Libya should domestic affairs improve), overall production adjustments from OPEC and major non-OPEC producers may come to pass.
- Thus, should we assume a 5% cut in oil production in OPEC in its June meeting, and a gradual fall in US oil production to 8.8 mbpd¹ at end-2016, we may well see a fall in production by 1.3 mbpd by June 2016. This is in contrast with a 2.0 mbpd crude oil production surplus seen at end 2015.
- In addition, should Russia joins in with a production cut (rather than a production freeze), the production fall then will be magnified.

Price outlook

We stick to our forecast for WTI and Brent to rally to an eventual \$50/bbl at end-2016. The bullish outlook is underpinned by our expectation for the crude oil market to rebalance further into the year.

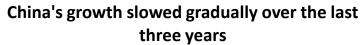


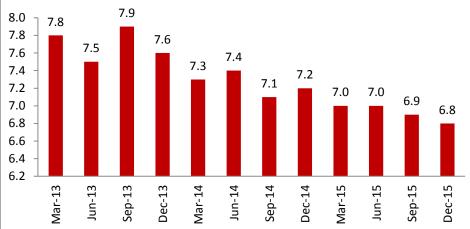
Why are oil prices so low? - Overproduction!



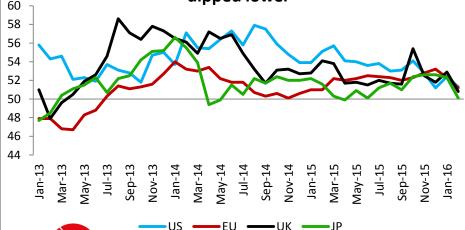


Why are oil prices so low? - Growth headwinds!

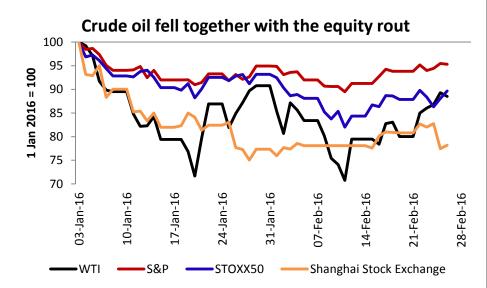




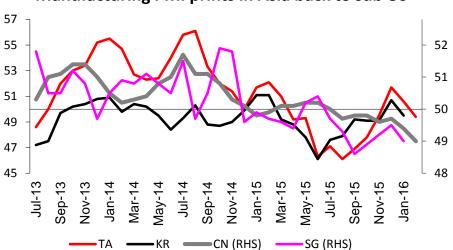
Manufacturing PMI prints in developed markets dipped lower



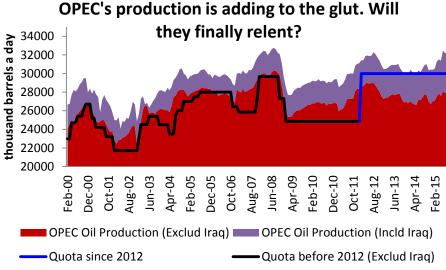
OCBC Bank Source: Bloomberg, OCBC

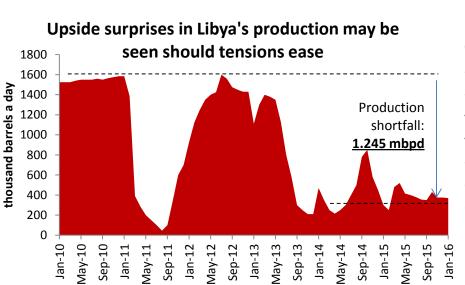


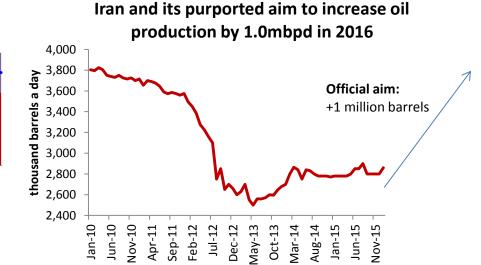
Manufacturing PMI prints in Asia back to sub-50

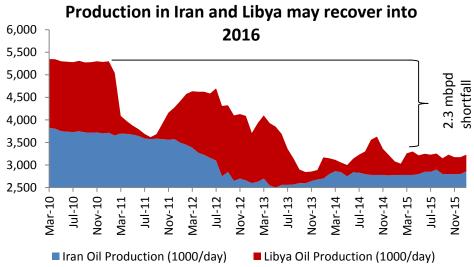


Why are oil prices so low? – Upside pdtn risk!





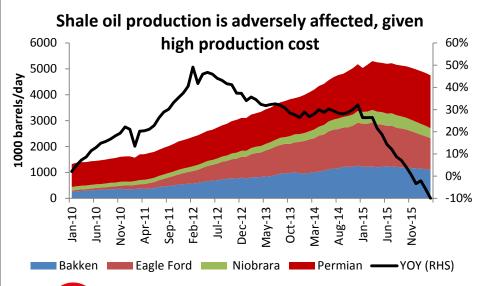


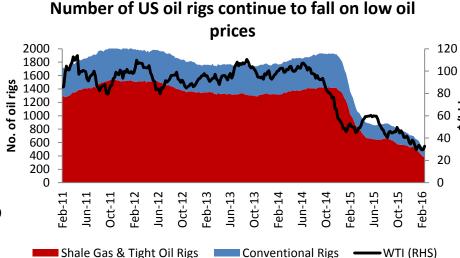


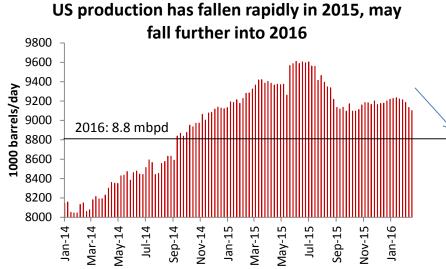


Reaction from the non-OPEC producers

- Falling rig counts and US lower crude oil production are likely a function of the crude oil slump.
- Given relatively weaker crude oil prices at this juncture, non-OPEC oil production, especially from the US, should see further downside risk.
- We look for US crude oil production to fall to 8.8 mbpd at end 2016.







US crude supply is likely to fall into 2016

Capital Expenditure in Major Energy Names (USD mn)

Name	2014	2015^	2016^	2017^
Anadarko Petroleum Corp	9,508	6,067	3,979	5,633
Apache Corp	11,378	5,178	3,120	5,002
Chevron Corp	35,407	29,504	19,329	19,316
Concho Resources Inc	2,589	2,511	1,536	2,080
ConocoPhillips	17,085	10,050	6,752	8,541
Continental Resources Inc/OK	4,717	3,080	1,414	1,794
Denbury Resources Inc	1,079	465	303	478
Diamondback Energy Inc	1,448	902	459	681
Energy XXI Ltd	789	724	133	133
Exxon Mobil Corp	32,952	26,490	22,721	23,107
Goodrich Petroleum Corp	322	78	44	10
Marathon Oil Corp	5,160	3,476	1,851	1,909
Oasis Petroleum Inc	1,401	849	422	588
Pioneer Natural Resources Co	3,576	2,393	2,345	2,869
Rosetta Resources Inc	1,298	362	349	695
Swift Energy Co	386	116	83	127
WPX Energy Inc	1,807	1,124	599	1,164
<u>Total</u>	130,902	<u>93,369</u>	<u>65,438</u>	74,127

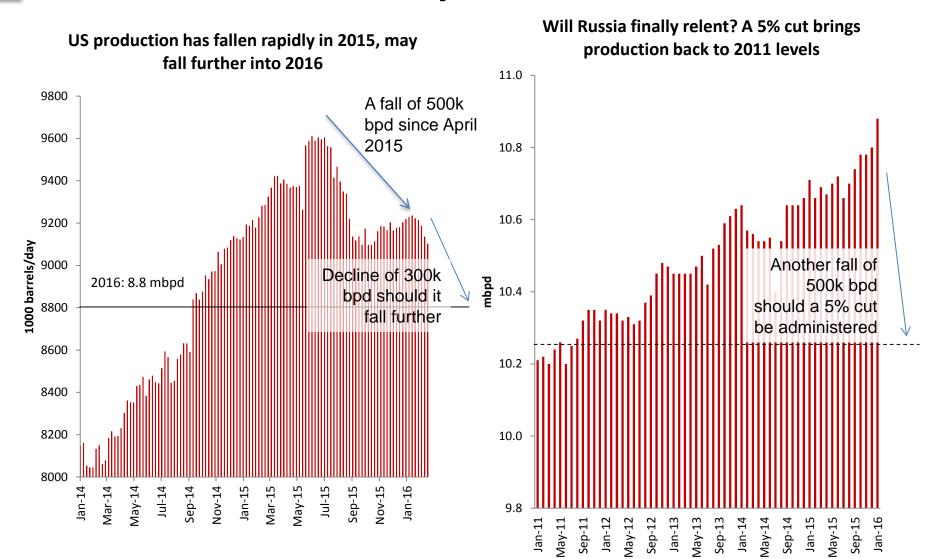
Source: Company Balance Sheet, Bloomberg, OCBC Bank

[^] Including Bloomberg Estimates & Emprical Data





Outlook on non-OPEC production





Outlook on OPEC production

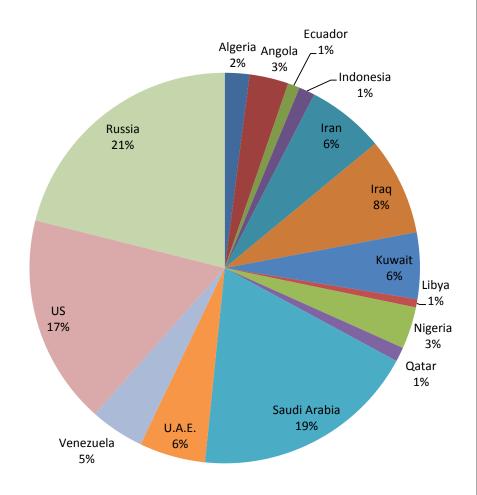
Production ('000 b/d)	June (5% Cut)	Feb	Jan
1. Total OPEC	31,882	33,060	33,139
Algeria	1,055	1,110	1,100
Angola	1,671	1,759	1,751
Ecuador	513	540	534
Indonesia	690	726	700
Iran^	3,325	3,000	2,860
Iraq	4,166	4,385	4,510
Kuwait	2,850	3,000	3,000
Libya	352	370	370
Nigeria	1,795	1,889	2,028
Qatar	618	650	650
Saudi Arabia	9,690	10,200	10,200
U.A.E.	2,831	2,980	2,970
Venezuela	2,328	2,451	2,466
2. Major Non-OPEC	19,891	20,012	20,124
US ¹	8,981	9,102	9,214
Russia*	10,910	10,910	10,910
OPEC + Major Non-OPEC	51,773	53,072	53,263
Fall of (in mbpd)	-1.30		

[^] Priced in Iranian's increase in oil production by 500kbpd

¹ Assumed constant rate of decline to 8.8mbpd



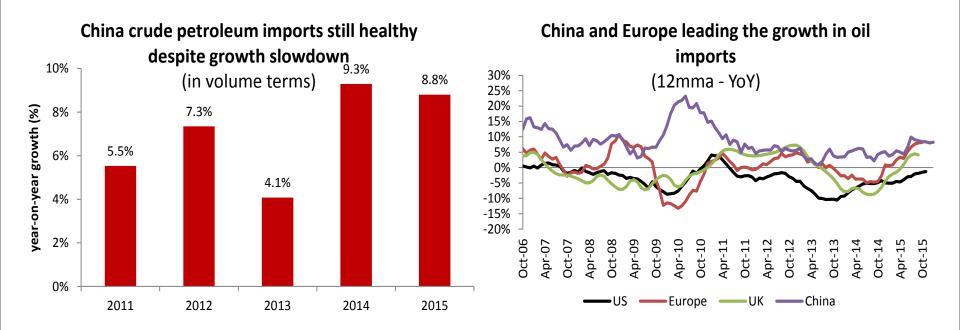
How oil production will look like in June 2016?



^{*} Assumed production freeze in Russia

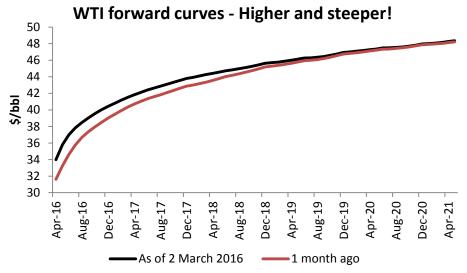
Demand is the (only) saving grace

- Demand appears supportive for oil prices. Note that global consumption of petroleum and other liquid fuels grew by 1.4 mbpd in 2015, and is expected to grow by another 1.4 mbpd in 2016.
- Elsewhere, crude oil imports in 2015 were largely supported by improving economic fundamentals in Europe, while Chinese thirst for the sticky liquid led to a robust 8.8% yoy growth last year.

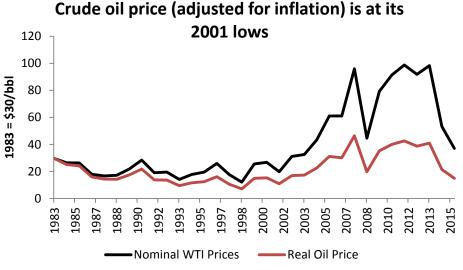


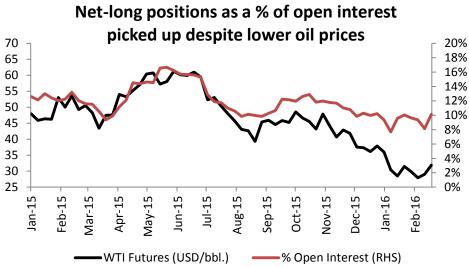


Is the crude oil price fall 'overdone'?



Either oil is undervalued, gold is overvalued... or both? 1974=100 MSCI World Growth Index Gold/Crude Ratio (RHS - Inversed)



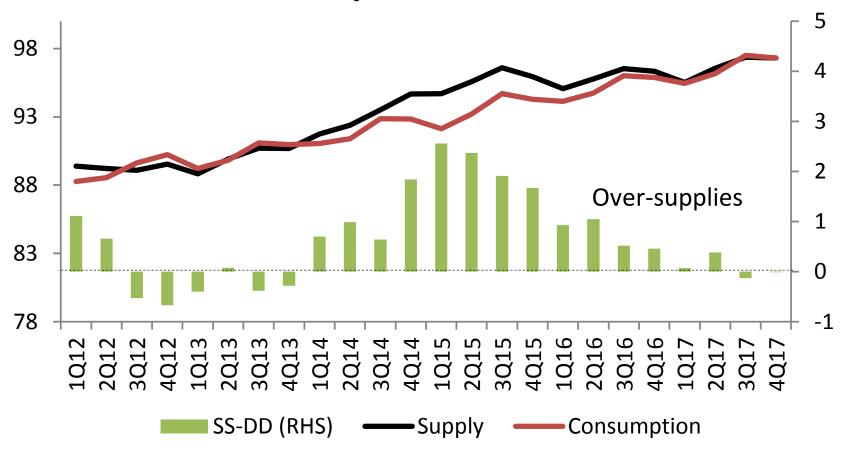




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Don't be myopic, rebalancing likely to happen

Crude oil likely to rebalance into 2H16





Thank You



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