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Summary of key commodity views



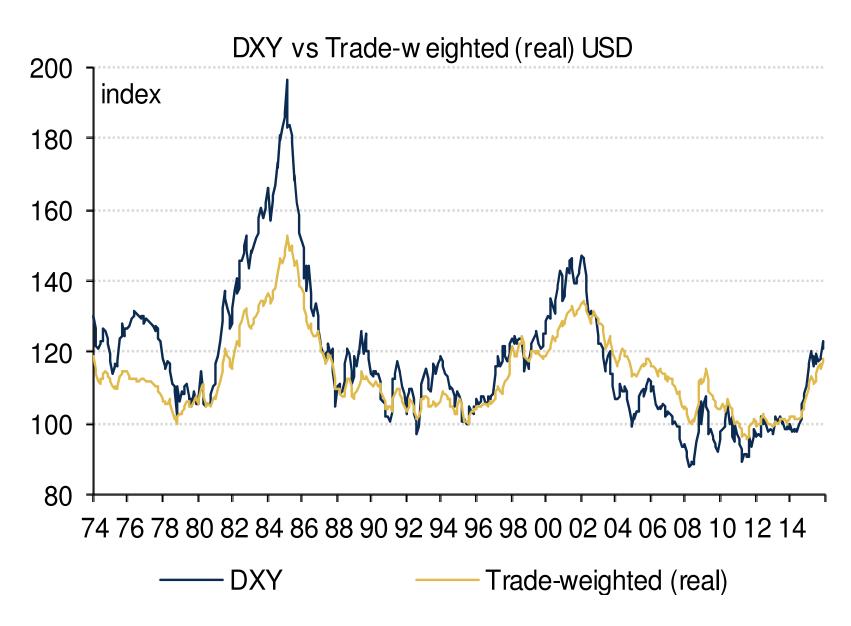
- Macro trends (low growth, low inflation, USD strength) remain a headwind for all commodities
 - Brent and WTI crude oil prices face downside risks in 1Q16 on a strong USD, weak EMs, Iran barrels, and refinery maintenance, among others.
 - A price war within OPEC cartel members Saudi and Iran seems to be unfolding.
 - Assuming a neutral USD ahead, we see long-term crude in a \$60-80/bbl range.
- Micro dynamics in the energy markets are improving:
 - Global **oil demand** is growing at the second strongest pace in more than a decade.
 - Non-OPEC oil output is set to drop in 2016. Why would Saudi want sub \$50 oil?
 - High inventory levels should prevent a price spike, but containment risk (\$20 oil) is growing.
 - US nat gas prices struggling on warm winter weather, but should push higher by 2H2016.
 - US natural gas demand is poised to jump on power, industrial demand + Mexico, LNG exports.

- Major themes:

- Heavy crude oil is feeling heavier
- WTI over Brent as shale production continues to decline
- Fuel up your gasoline tank for next summer, but diesel faces a slow death
- It's already springtime for US nat gas
- Coal is experiencing a full-blown currency war
- Iron ore will continue to struggle
- Copper prices need to force more supply cuts

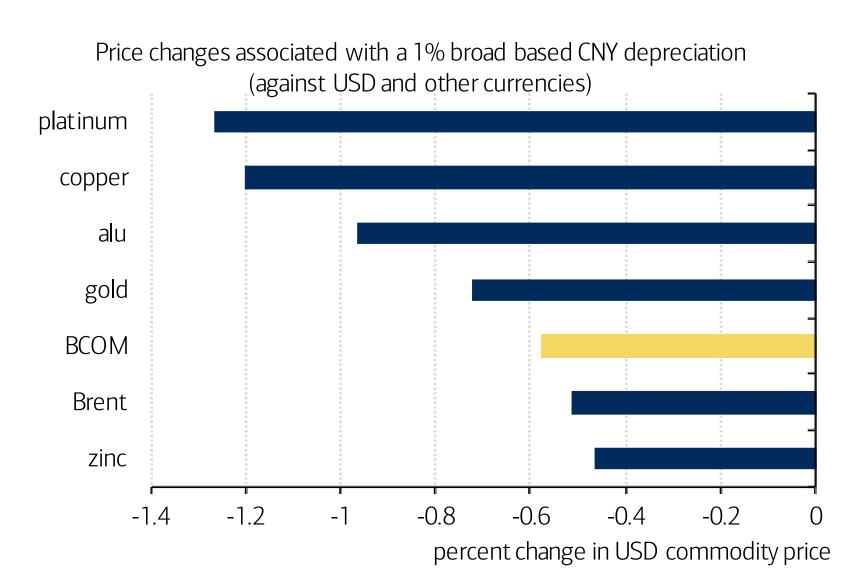
The dollar (either trade weighted or the DXY) is still far off from previous cyclical highs





We estimate that a 1% depreciation in the CNY is associated with a 0.6% decline in commodity prices

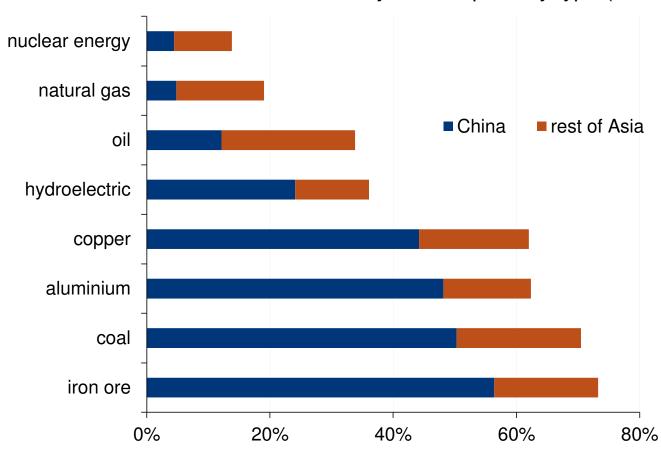




China is now exporting deflation through the commodities channel



China's share of commodity consumption by type (2013)

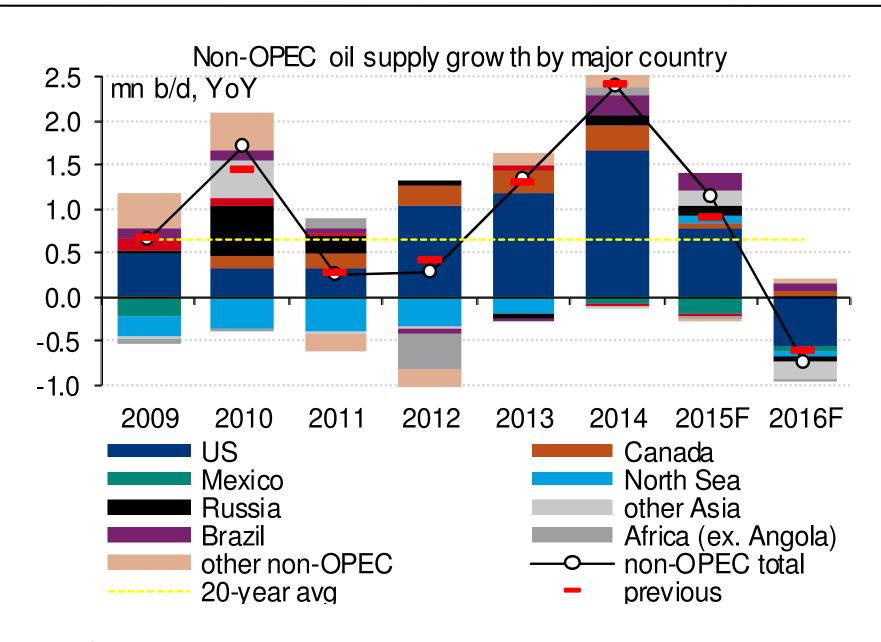




Energy outlook

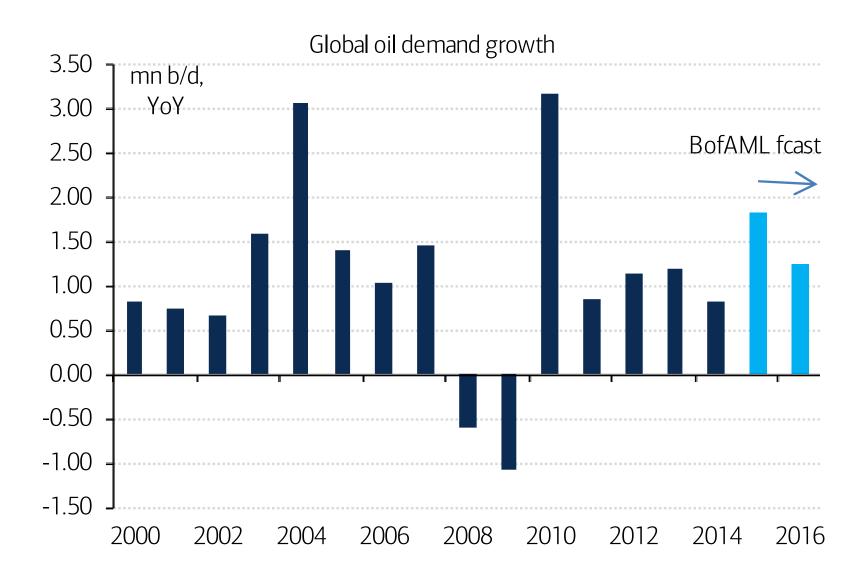
Non-OPEC supply growth is set to slow down drastically in 2016





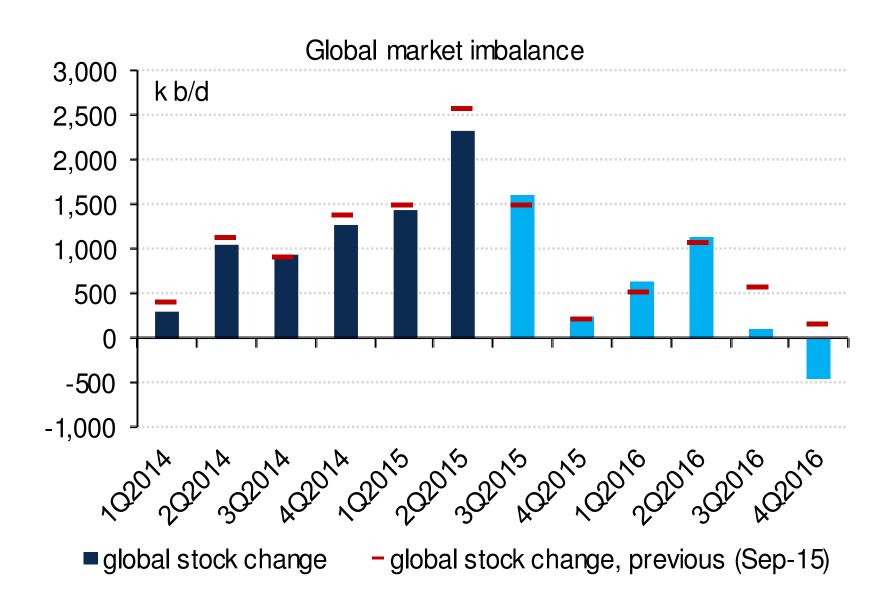
Oil consumption growth in 2015 ran 1 mn b/d above the year prior, the 2nd strongest pace in more than a decade





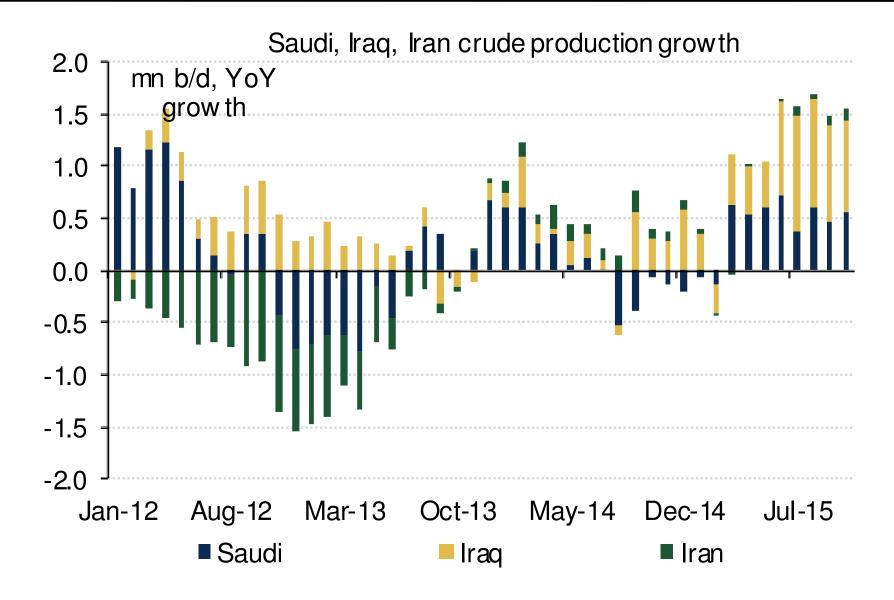
The massive global market imbalance of the last 24 months is now largely behind us...





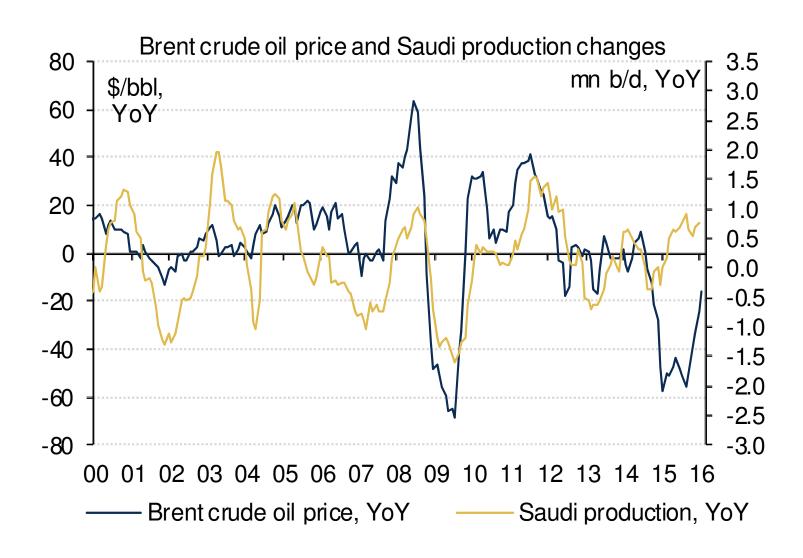
...but Saudi seems reluctant to shoulder any output cut just as Iran prepares to re-enter the market





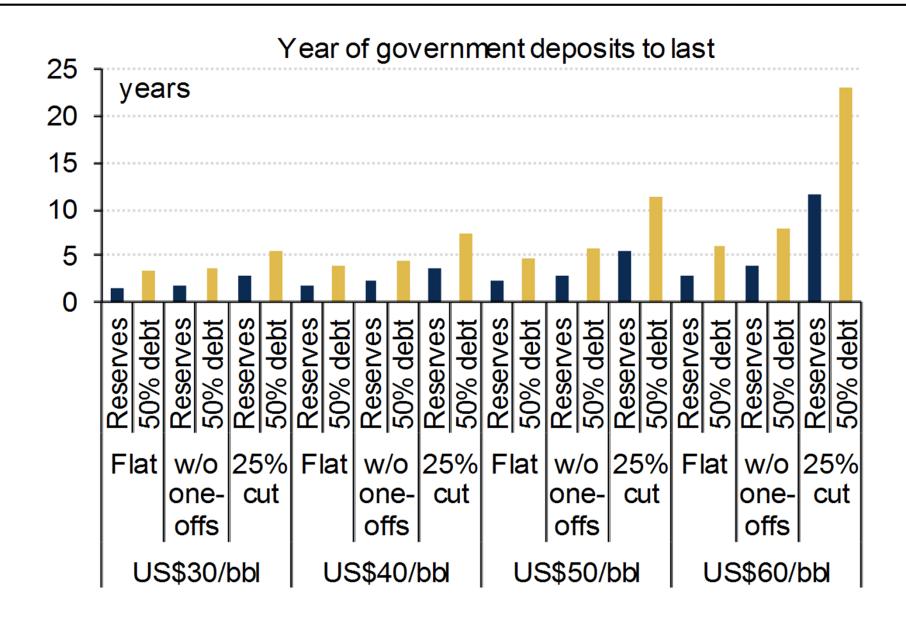
While a market share strategy is a rational decision for Saudi, it does not make sense to gain market share at any price





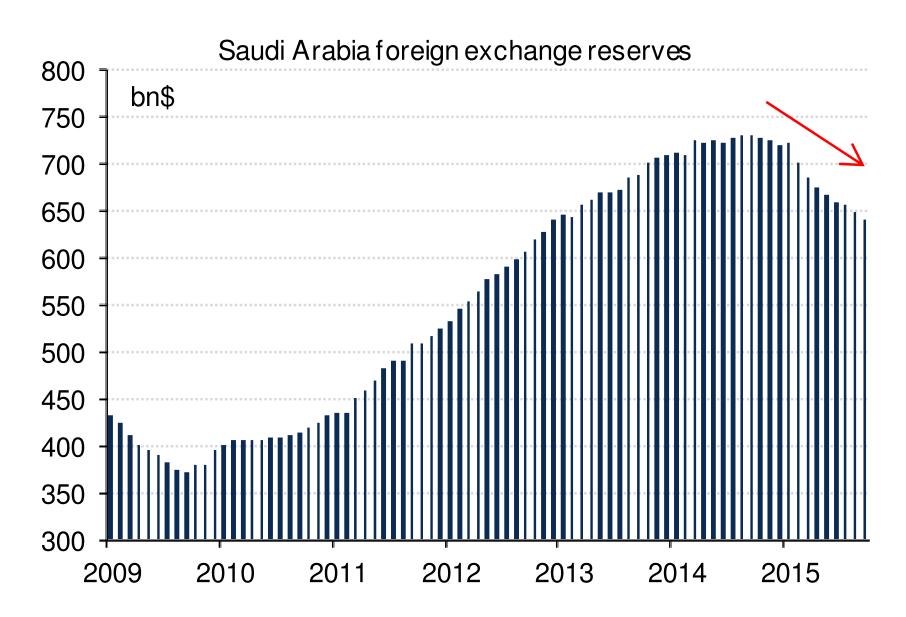
While Saudi can survive for years on Brent crude prices of \$55 to \$65/bbl, it cannot sustain sub \$40/bbl for very long





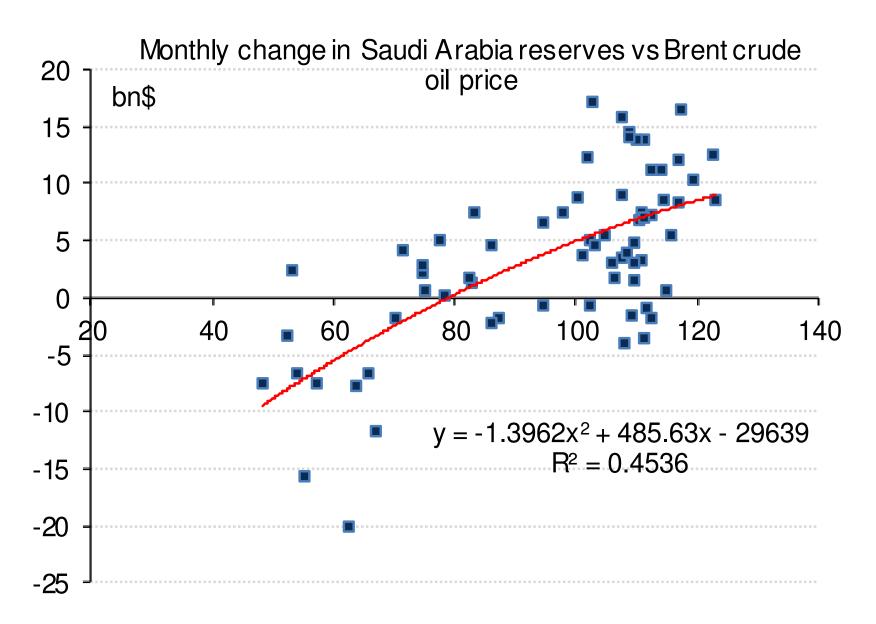
Saudi Arabia's FX reserves are still high, but have been falling at a relatively fast rate...





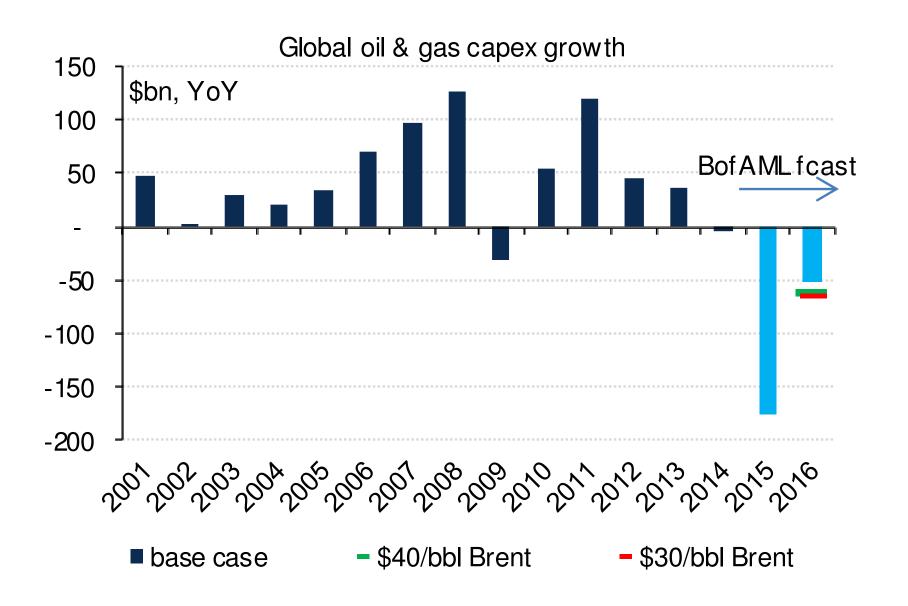
...which could accelerate to \$18bn per month with Brent crude oil prices at \$30/bbl





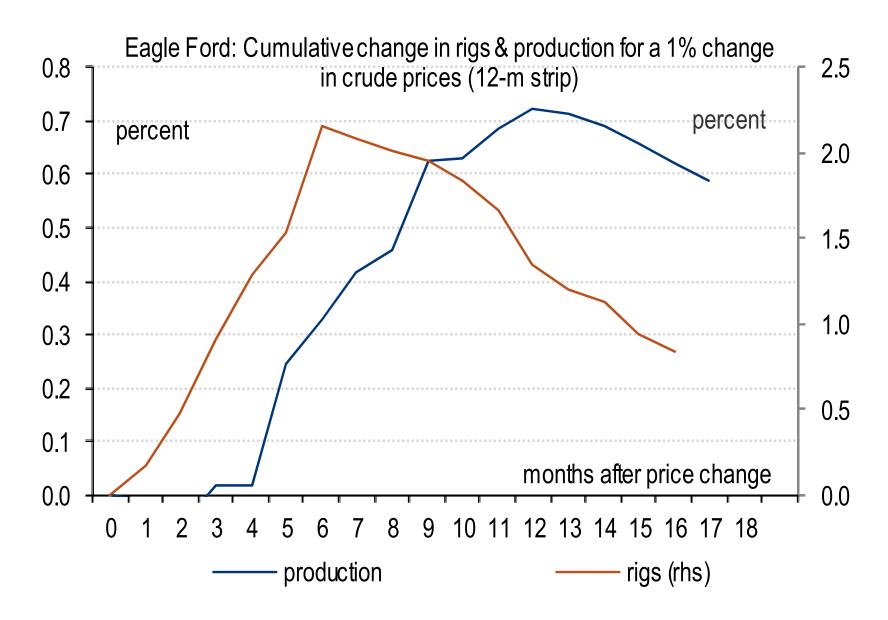
A further drop in prices beyond our expectations will likely have limited additional impact on global capital expenditures





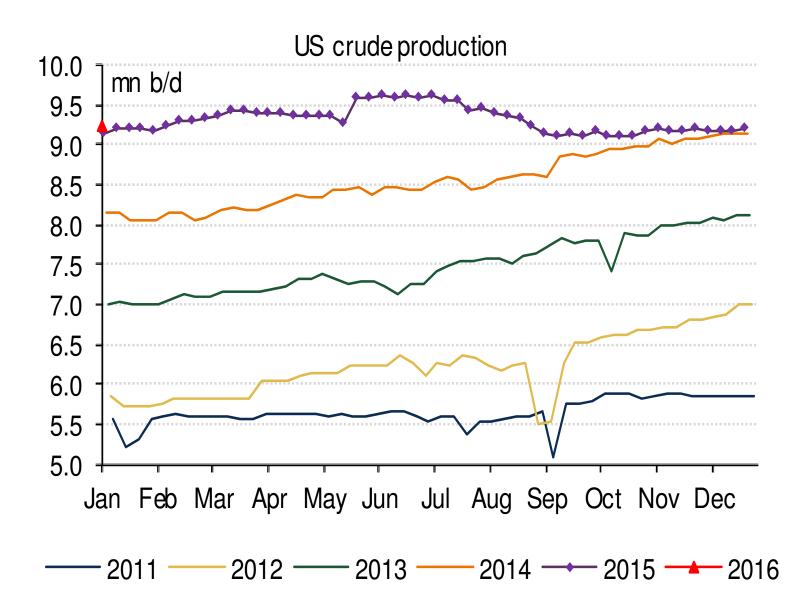
US shale producers have continued to bear the brunt of the adjustment due to their sensitivity to price





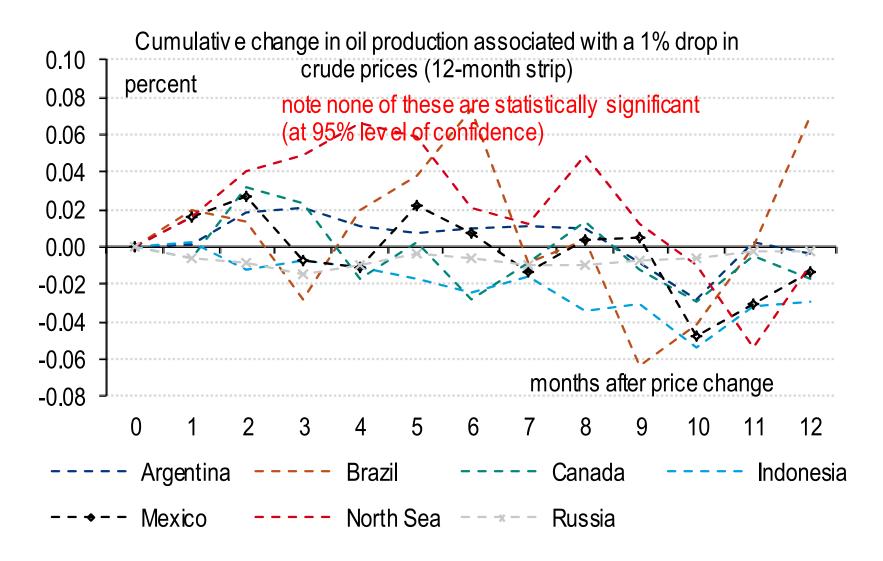
Looking at US production, we can observe how recent output trends have already deviated enormously from seasonal trends





The price sensitivity of supply is rather limited outside the US over a 12-month window

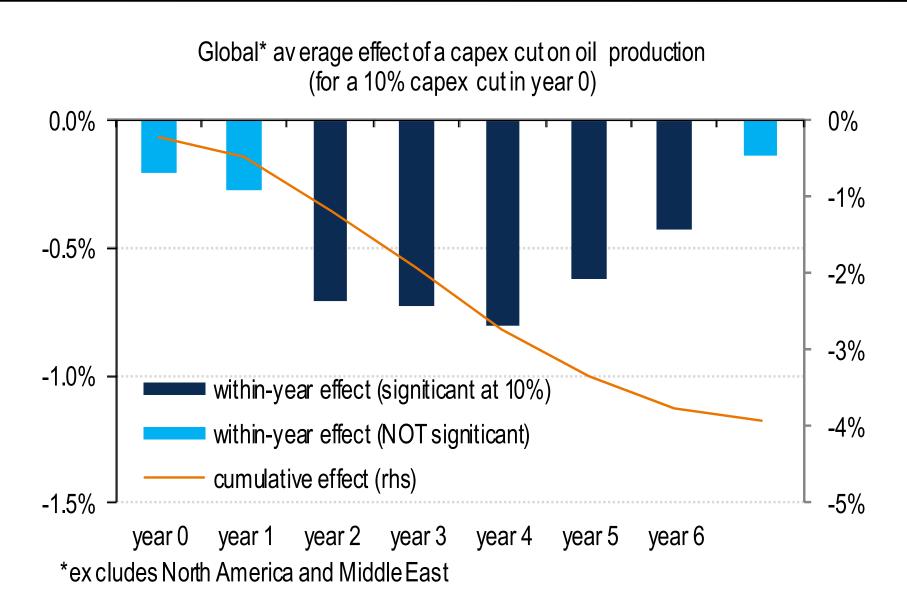




Source: IEA, BofA Merrill Lynch Commodities Research

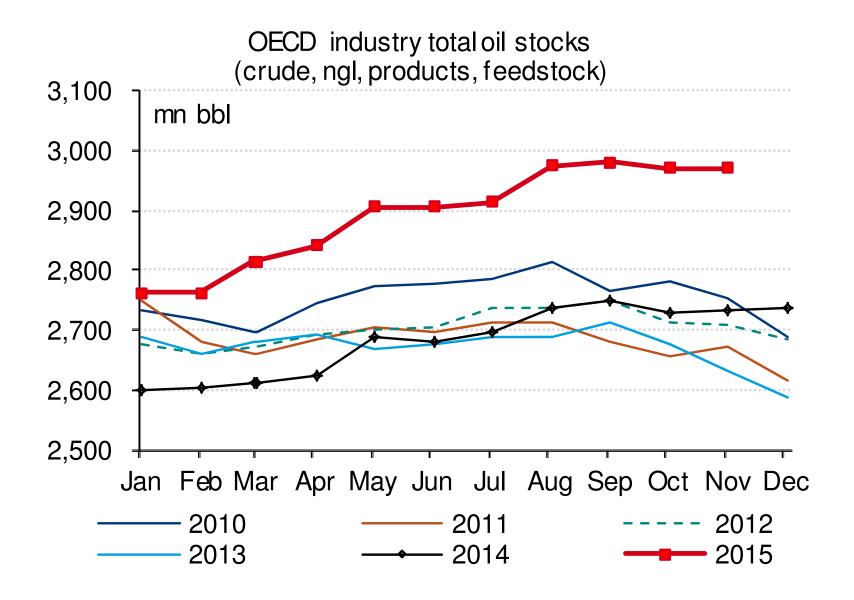
This year's collapse in capex will drive output for non-OPEC ex. North America down by 0.6 million b/d by 2017





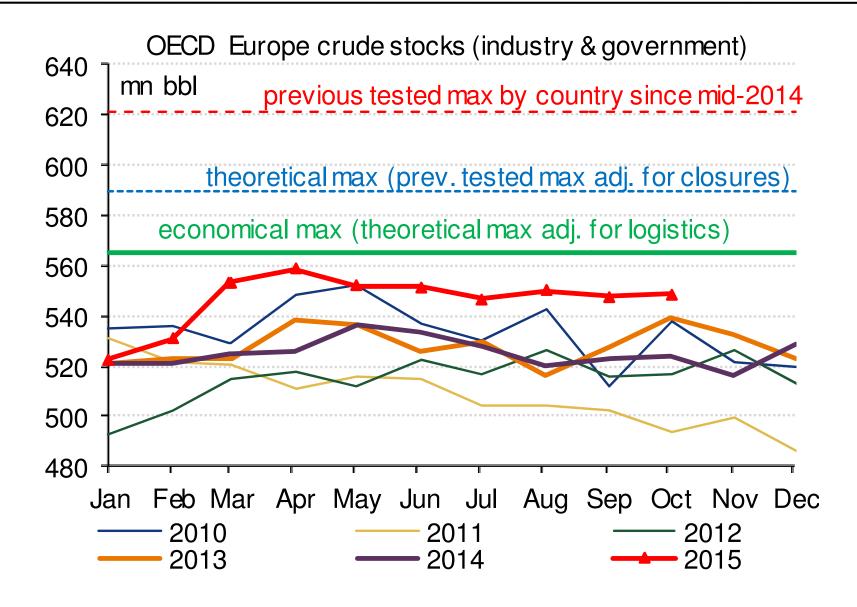
Global oil inventories look increasingly swollen and spare storage capacity is close to running out in some regions





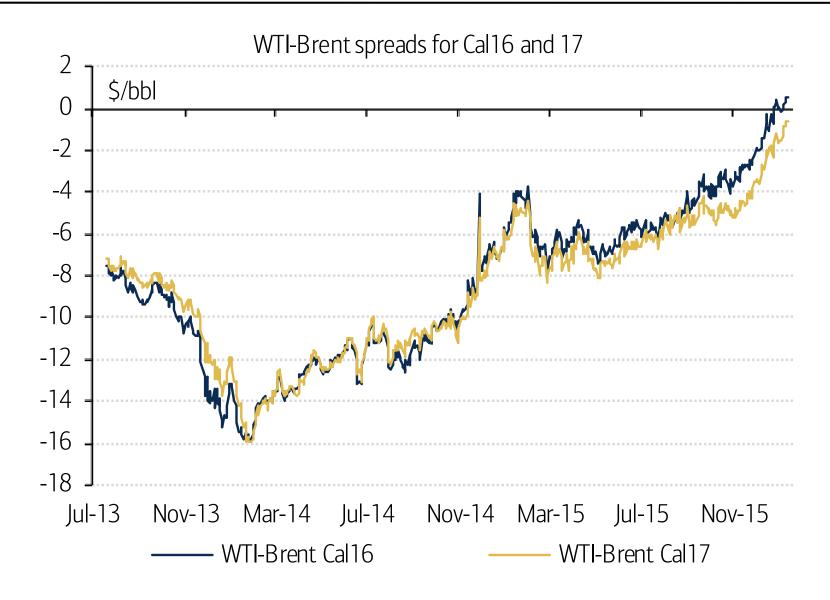
There is only 25 million bbl of crude oil storage capacity left in Europe





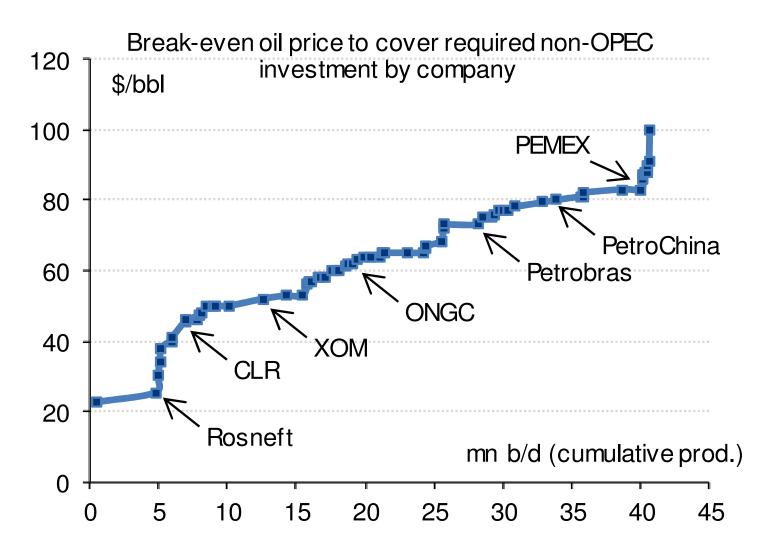
WTI has recently surged above Brent, suggesting that the oil market is starting to rebalance in the US





Most producers around the world require about \$80/bbl to keep expanding production

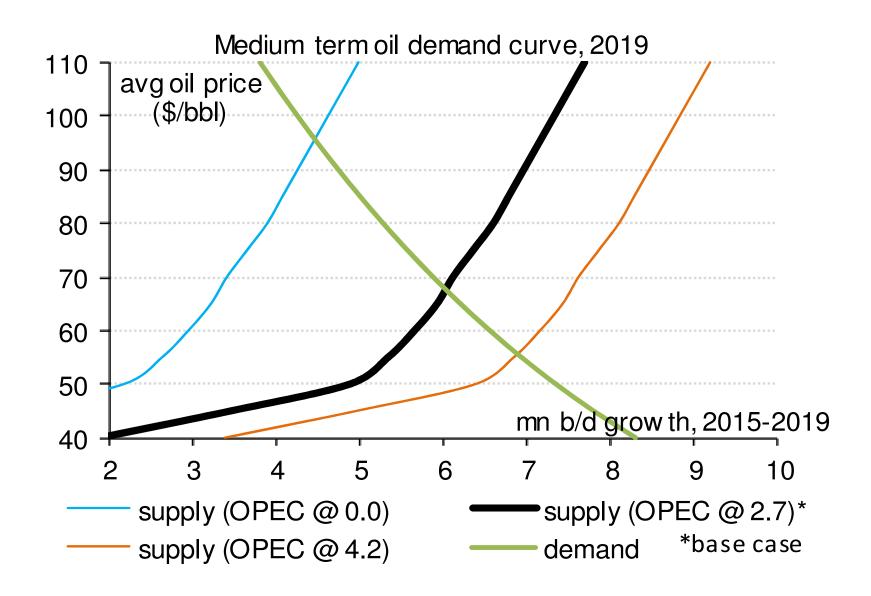




Source: BofA Merrill Lynch Global Research

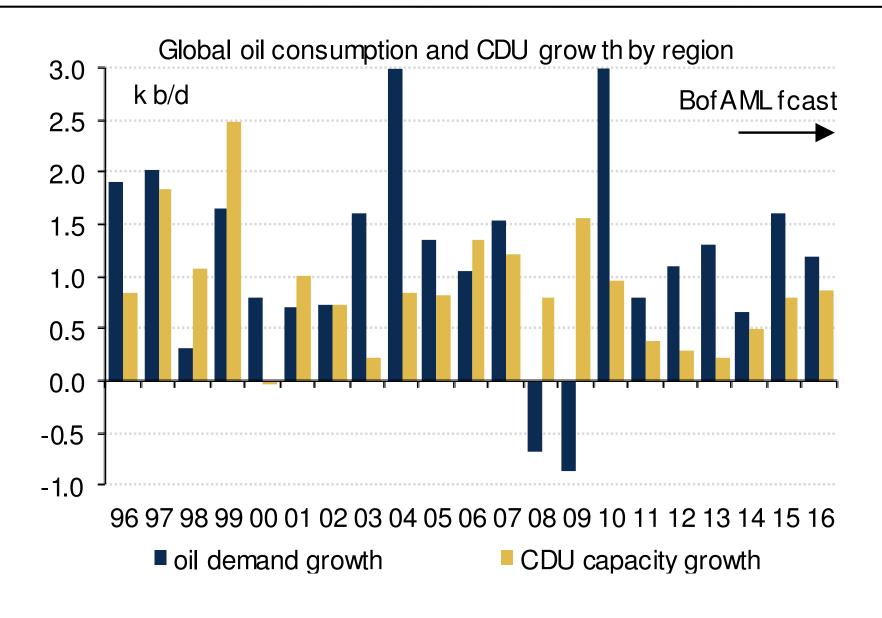
Demand elasticities point to unsustainably high consumption growth rates if crude oil prices stay at these levels





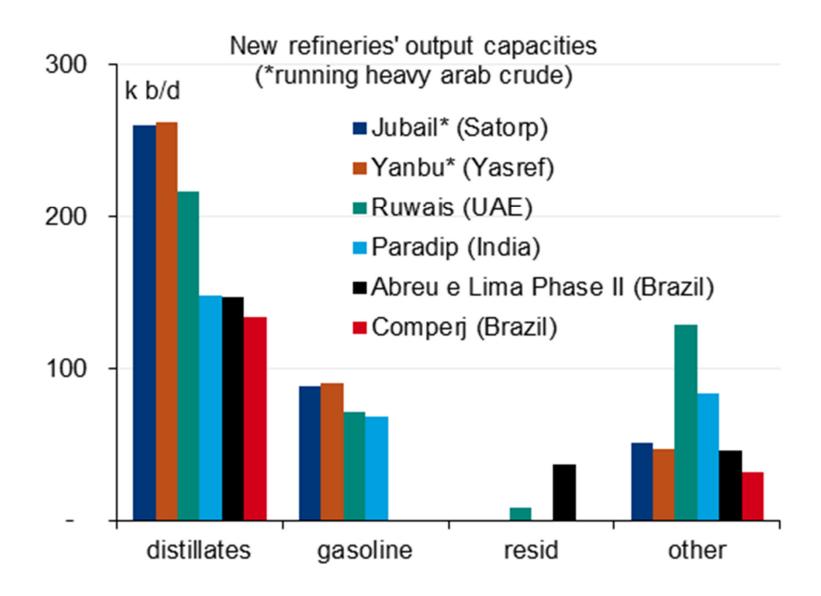
Global oil demand growth will outpace CDU additions for the 6th consecutive year in 2016, an argument for healthy margins





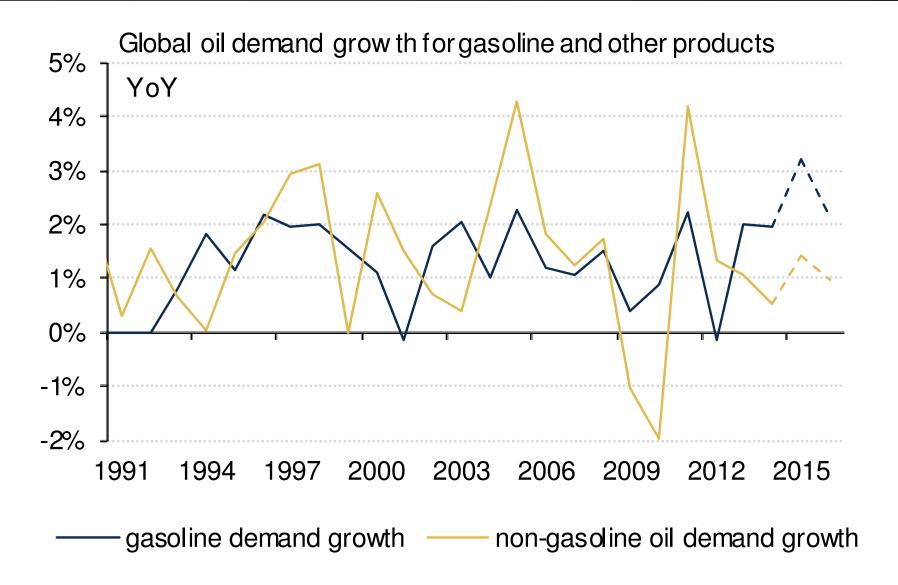
Most of the new refineries coming on stream are biased toward diesel





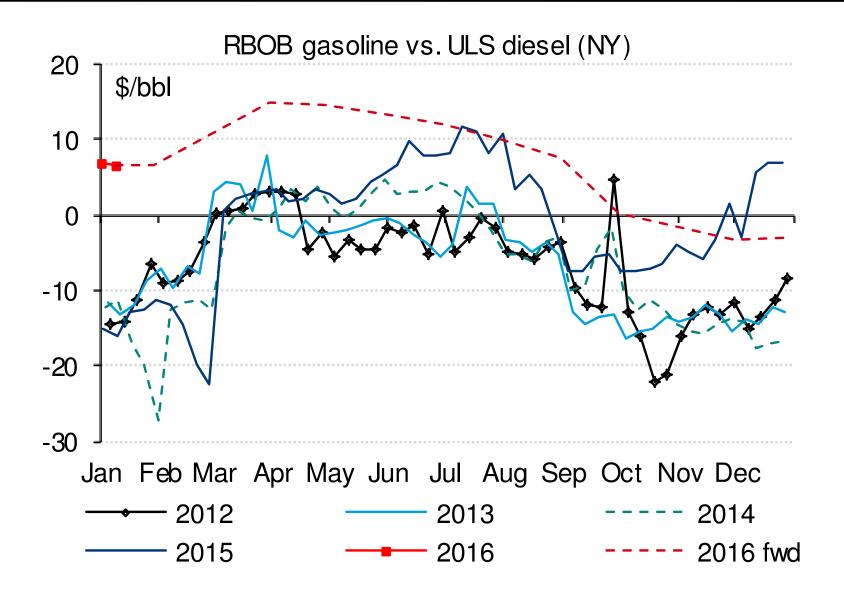
Gasoline demand growth outpaced the rest of the complex in 2015 and the trend is expected to continue in 2016





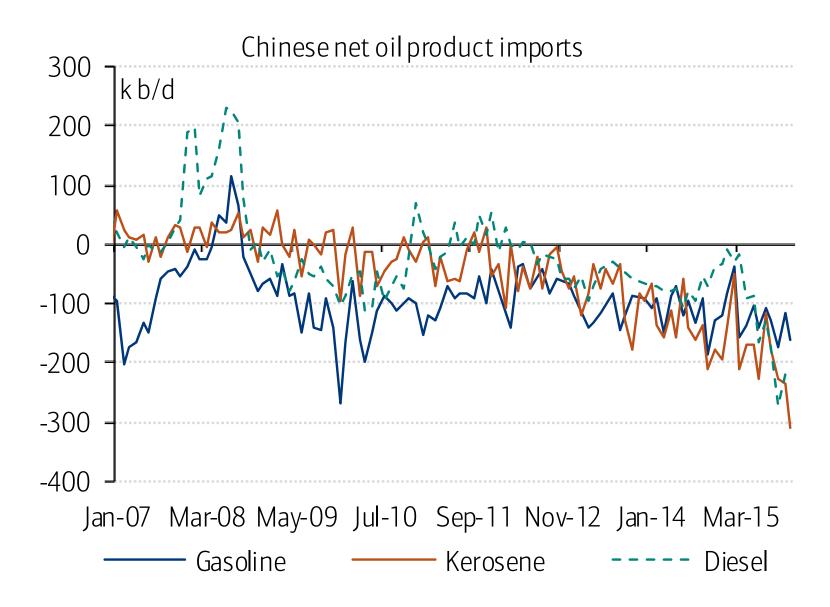
We continue to prefer gasoline over diesel on a relative basis, but the market has already moved very meaningfully





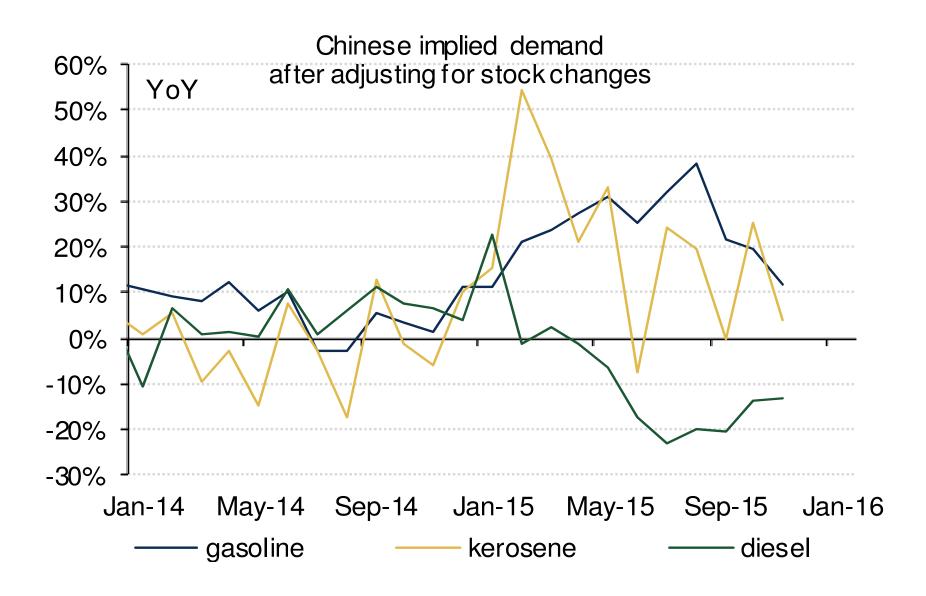
Diesel net exports have soared in recent months from virtually zero in February to 220 k b/d in November





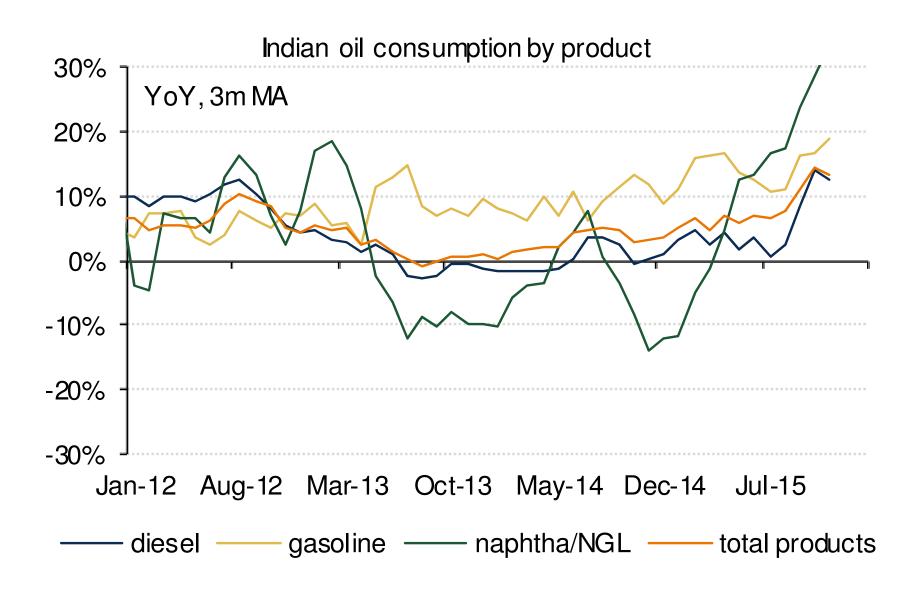
Consumer fuels like gasoline (for driving) and kerosene (for flying) are growing robustly in China...





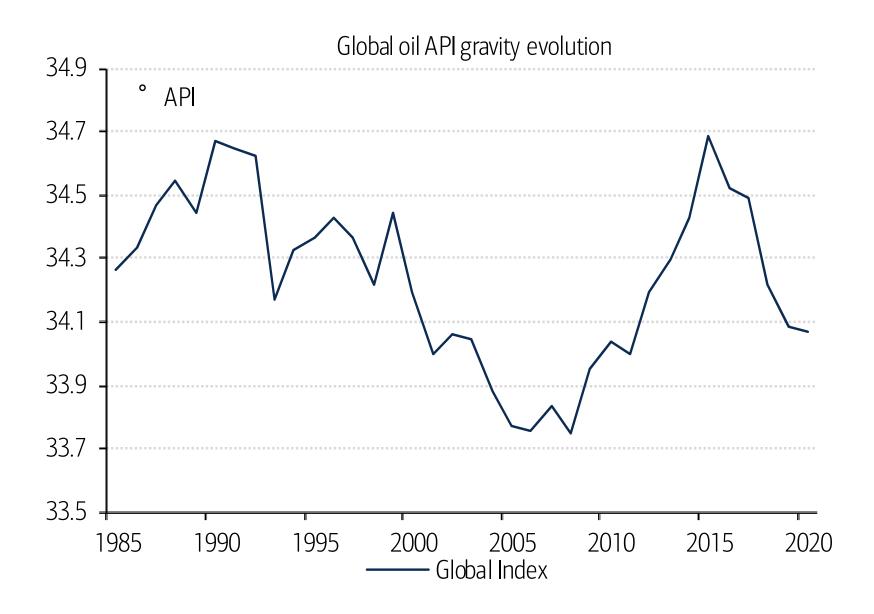
...while in India, refined products demand growth has been remarkably healthy in 2015





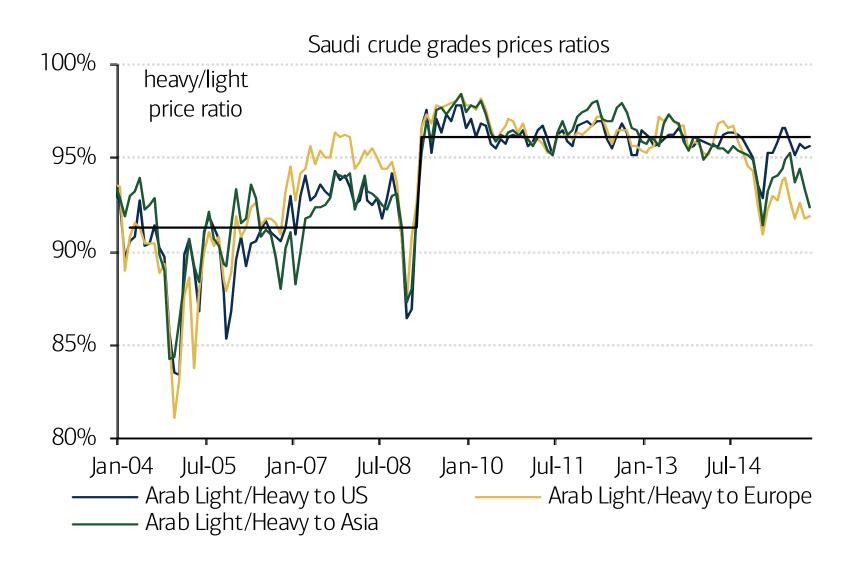
The increased gravity in the global crude slate could be an ongoing trend over the medium term





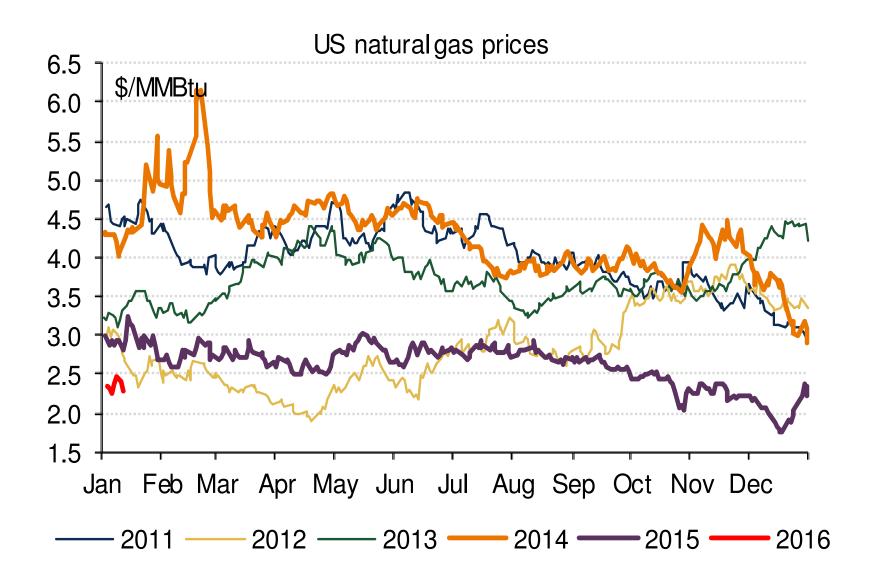
We believe the discount of Arab heavy to Arab light crude may have to widen out structurally again





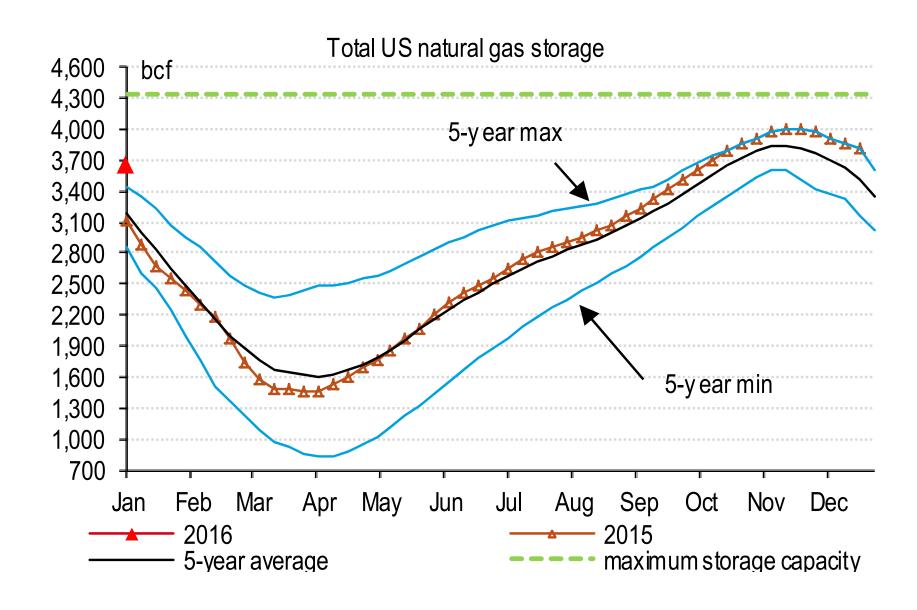
US front-month natural gas prices recently collapsed on prewinter storage containment risks





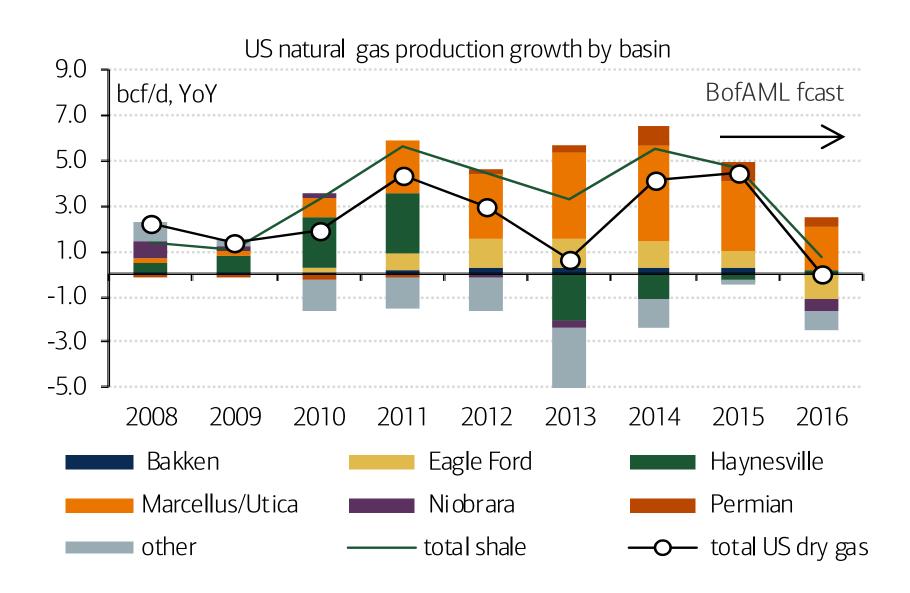
Larger-than-expected storage numbers are a primary factor in driving prices to near-historic lows lately





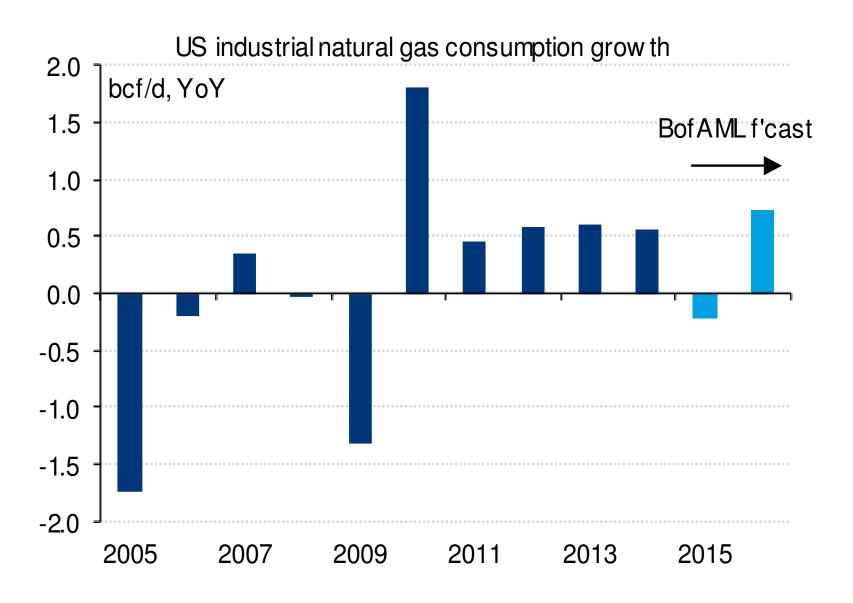
Outside the Northeast, everything points to a downward trend in natural gas production, especially in wet areas





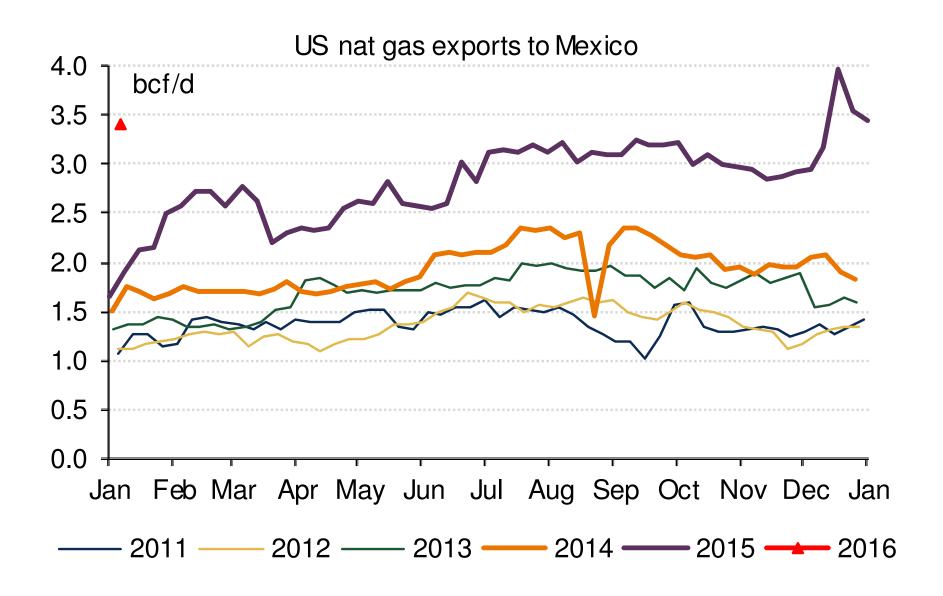
Industrial gas demand declined in 2015, yet we see a 0.7 bcf/d growth in 2016E, mostly on methanol and fertilizer expansions





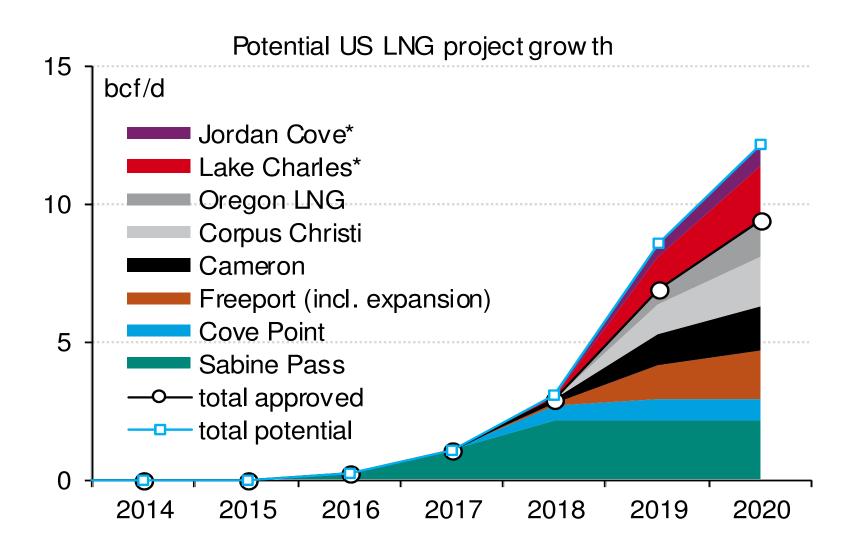
US natural exports to Mexico are expected to increase by 0.6 bcf/d in 2016, driven by the Ramones II pipeline ramp up





Sabine Pass is the most advanced LNG terminal, with exports set to start early next year



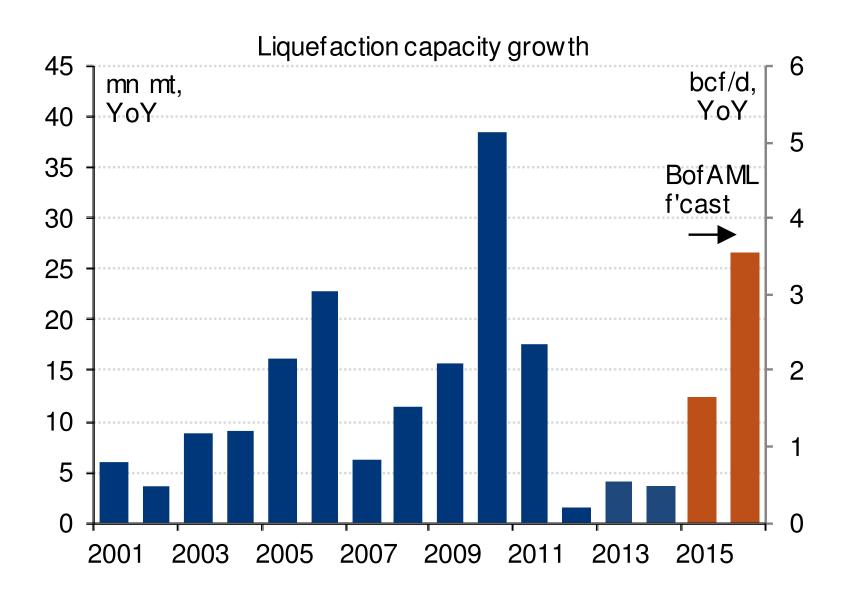


Source: BofA Merrill Lynch Global Commodities Research

^{*} these projects have not been approved yet

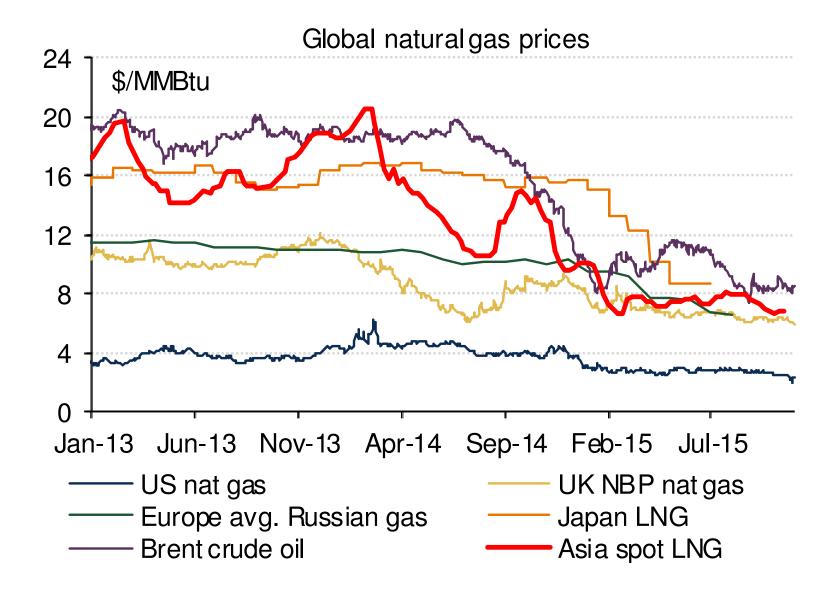
We see 12 mmtpa of liquid gas coming to the market this year and 26+ next year, a strong rate of growth...





...suggesting a rather frosty outlook over the next 12 months for spot global LNG prices





Crude oil and natural gas prices forecasts



BofA Merrill Lynch Commodity Price Forecasts (period averages)										
	Units	2015	1Q16F	2Q16F	3Q16F	4Q16F	2016F	2017F	2018F	2019F
WTI	(\$/bbl)	48.76	36.00	43.00	49.00	52.00	45.00	59.00	67.00	75.00
Brent	(\$/bbl)	53.60	37.00	44.00	50.00	53.00	46.00	61.00	70.00	80.00
US Nat Gas (HH)	(\$/MMBtu)	2.63	2.60	2.80	3.10	3.50	3.00	3.50	3.50	3.50

Source: BofA Merrill Lynch Commodities Research

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