Oil and Gas Restructurings: Unique and Complex Capital Structures and Challenges

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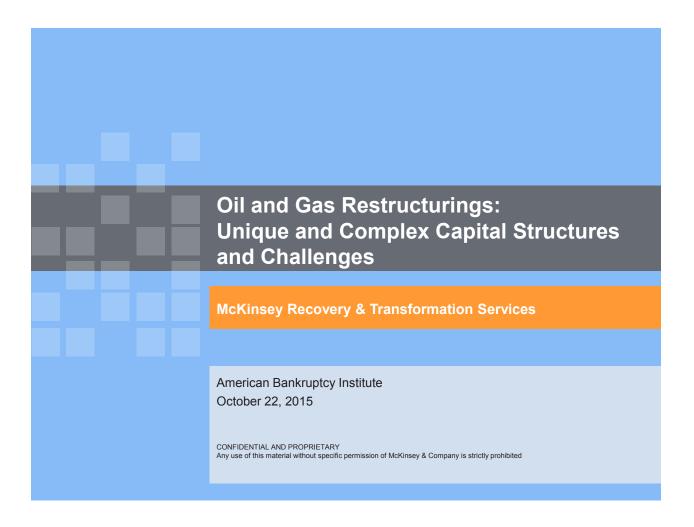
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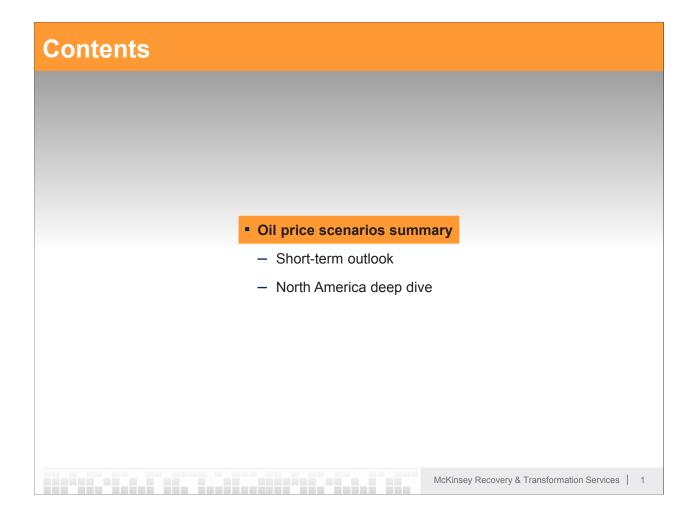
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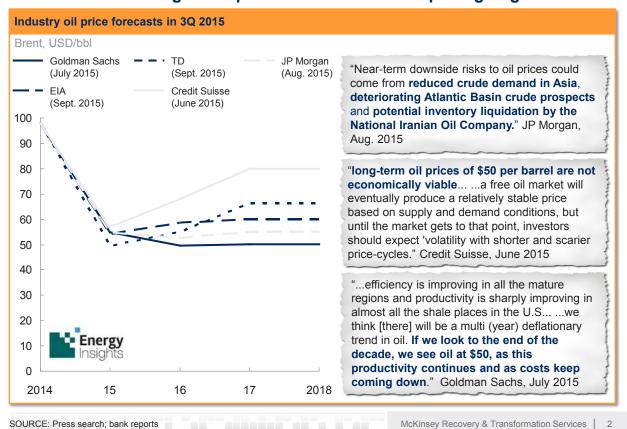
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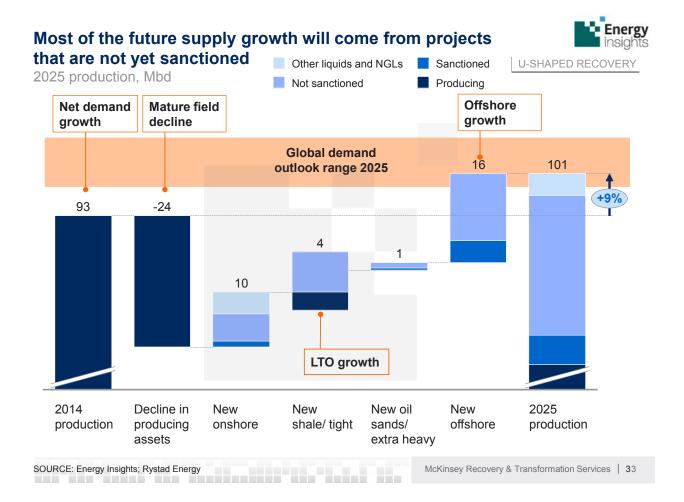
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There is a broad range of expectations for crude oil price going forward



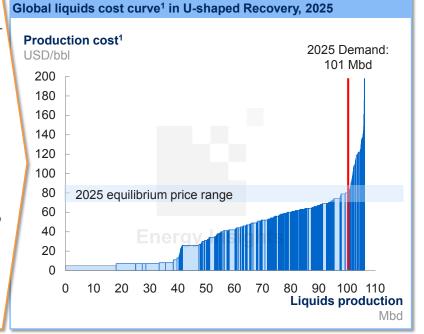




In the long-term, we can see a crude price equilibrium around \$70-85/bbl, assuming OPEC maintains a ~40% market share

Key drivers

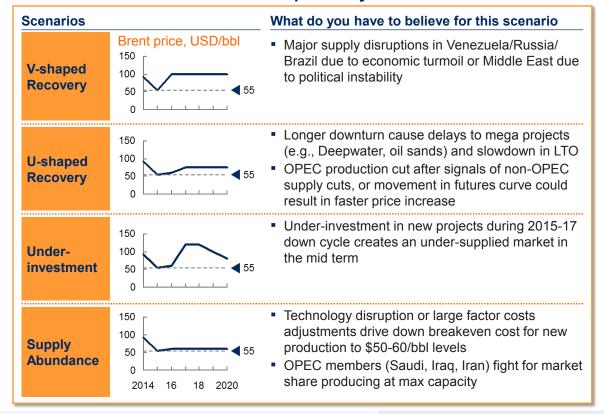
- The market clears at USD 70-85/bbl in the long-term as supply-demand balances through
 - Dampened long-term demand growth
 - 2 Continued LTO growth
 - 3 Delays and cancellations in oil sands and deepwater projects
- 4 OPEC maintains market share above 40% and modulates production to keep the prices in check
- In long-term, the tail of the cost curve is very steep therefore small changes in demand can cause big price shifts



¹ Includes technical cost (capex, opex, exploration cost) and government take (taxes and royalties); cash cost for existing fields and full life cycle cost for new fields developments

SOURCE: Energy Insights; Rystad Energy

We continue to talk about the future prices by four cases



SOURCE: Energy Insights

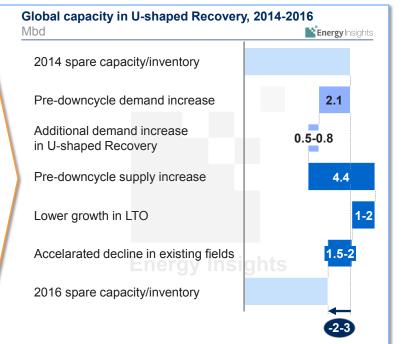
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In the short-term, decreases in oversupply will set the timeline for price recovery and affect OPEC behavior



Key drivers

- A 2-3 Mbd decrease in oversupply could be seen over 2015-2016, driven by
 - 1 Increasing demand
 - Change in new LTO capacity
 - 3 Decline of conventional production
- 4 OPEC can keep low prices until sufficient capacity has exited to maintain future spare capacity at a level where OPEC can regulate pricing (~3 Mbd in the long term)
- 5 In the very short term, prices could experience volatility due to multiple uncertainties



¹ Incremental decline of 4% of the 2014 production for conventional onshore, conventional shelf, and heavy oil

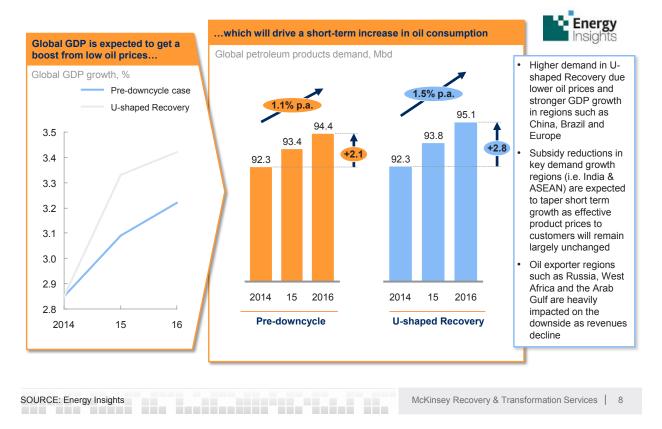
2 LTO capacity originally expected to increase by 1.5 Mbd in 2015 and 1.1 Mbd in 2016

SOURCE: Energy Insights

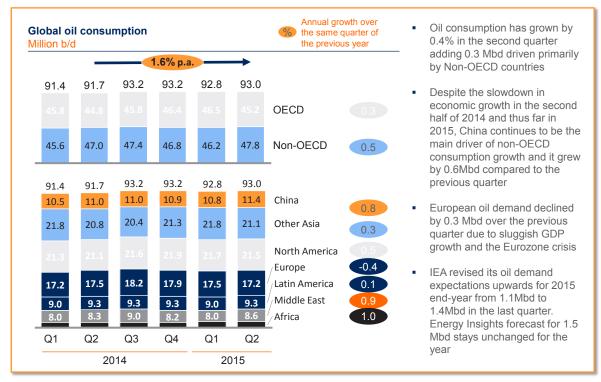
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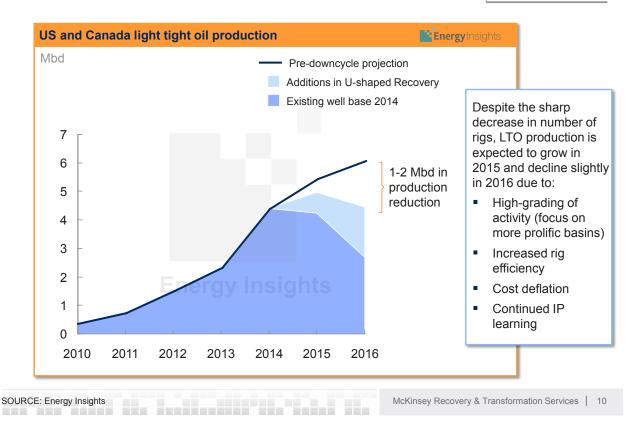
1 In the short-term, low oil prices should create a near-term demand bump through 2016, driven by developing nations and OECD Europe



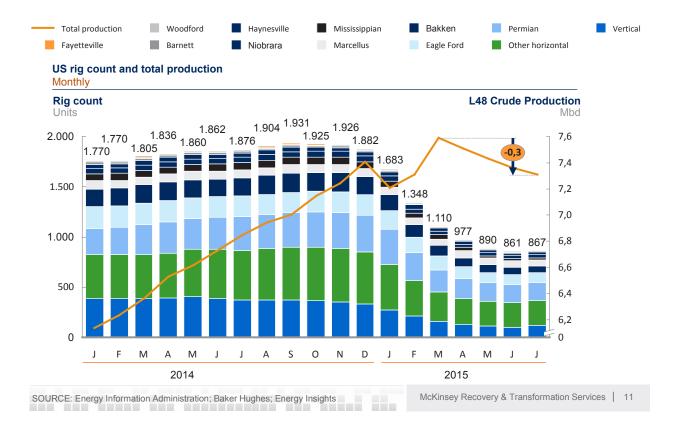
1 Oil consumption grew by 1.3 Mbd in Q2 2015 compared to the same quarter in 2014, despite economic slowdown



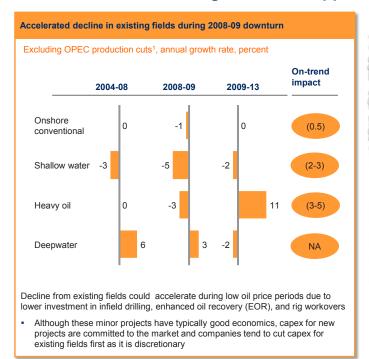
2 North America LTO production is expected to decline in 2016, while in the pre-downcycle outlook it was growing to over 6 Mbd



2 From a monthly perspective, we are already starting to see a decline in production for US L48 onshore



We will likely see accelerated production decline due to low reinvestment in existing fields, as happened in the 2009 downturn



Russian oil output is expected to fall 8 percent in the next two years, according to a top Russian oil executive. "Everyone will reduce production because everyone is reducing drilling," Fedun [the VP of Lukoil] said. He added he expected drilling in Siberia to drop by as much as 15-20

Bloomberg, March 2015

Mexico oil production declined by 10.5% y-o-y as natural decline keeps is running ahead of new production coming on stream. Reportedly, Cantarell, Mexico's biggest field, witnessed decline of -30% y-o-y to just 240kbbl/d

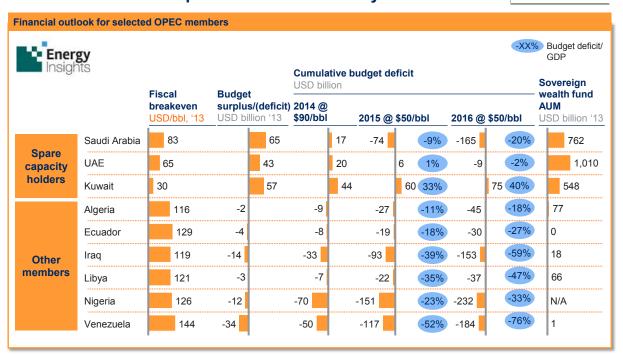
Tudor Pickering Holt Energy, Jul 2015



¹ Saudi Arabia, UAE and Kuwait cut their production intentionally to rebalance the market therefore are excluded from this calculation

SOURCE: Rystad; Energy Insights; Tudor Pickering Holt Energy; Press search

4 Major OPEC spare capacity holders have strong public finances and can sustain low oil prices for the next few years | ROUGH ESTIMATE



¹ Assume government debt in the next year can be simplified to government debt this year + government deficit this year; Assumes oil export volumes and budget spending will stay the same as 2013

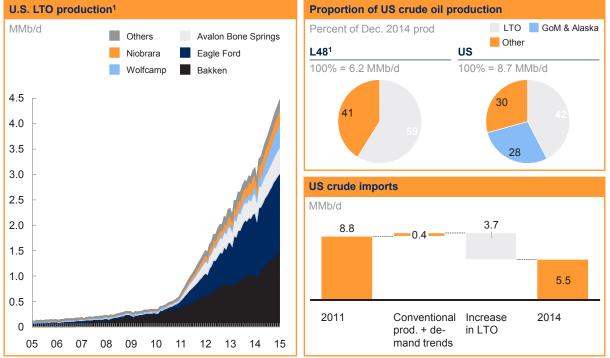
SOURCE: IMF World Economic Outlook Database Oct 2014, IMF Regional Economic Outlook 2014, Bloomberg, World Bank, McKinsey Energy Insights, Sovereign Wealth Fund Institute, IEA OMR

² Negative ratio means debt, positive ratio (e.g., Kuwait) means cash (no debt) 3 Asset Under Management 4 Crude oil production capacity

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Light tight oil (LTO) has grown by more than 50% per year since 2010 and now is over 40% of total US crude production

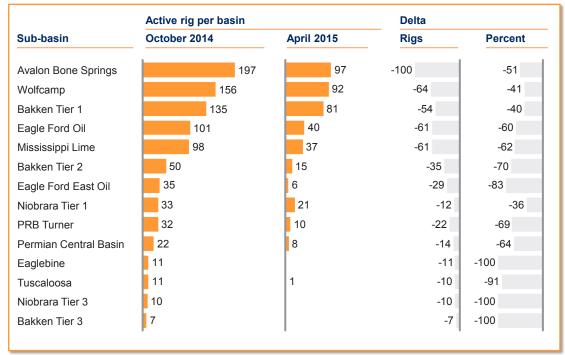


¹ Includes light tight oil production in the Lower 48 states. Production is from oil-bearing plays with primarily horizontal drill types (includes condensate from Eagle Ford Wet Gas region

SOURCE: Drilling Info; EIA; Energy Insights, a McKinsey Solution, EI North America Supply ModelMcKinsey Recovery & Transformation Services | 15



Since the peak in October 2014, activity has been cut across all LTO basins, with marginal basins receiving the largest proportional cuts

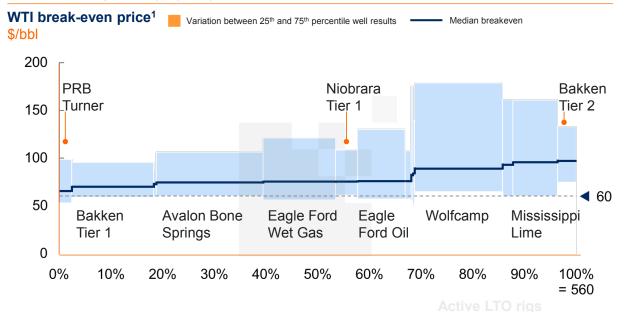


SOURCE: RigData; Energy Insights

Variability in well results across LTO plays suggests that not all drilling will be out of the money at low oil prices



US LTO drilling activity by play and break-even price



% of rig count, Mar. 2015

SOURCE: Energy Insights North America Supply Model (July 2015)

¹ Half-cycle break-even price of WTI for a new well excludes finding and land costs, includes drilling and completion capex, field and gathering opex, wellhead differential, royalties, severance tax and 10% rate of return





Re- source	1 Resource quality	 Well spacing: determines how closely wells can be drilled/drilling inventory Non-productive acreage: percent of play that is inaccessible for drilling Longevity of wells: well life
	2 IP learning	Growth EUR: increase in production per well and shape of decline curve
	3 New play discoveries	 Number of new plays in "pipeline": number of prospective plays in the exploration phase that could prove out in the next 5 years
Develop- ment cost	_	 Rig efficiency: drilling time per foot Input usage intensity: volume of proppant, chemicals, water used per well Cyclical pricing: inflation/compression of oilfield services due to oil prices
	5 Global oil price	 Global oil supply/demand balance: volume of OPEC spare capacity Cost of marginal production: marginal cost of barrel of new supply
Realized Price	6 Brent differentials	 US transportation differentials: difference field and WTI / LSS Brent Vs. LSS differentials: based on US export policy Quality differentials: difference to WTI benchmark
Other	7 Access to capital	Capital constraints limit the ability to develop otherwise economic resources
risks	8 Right to operate	 Fracturing regulations: potential to limit development – likely at a local level Crude-by-rail: potential limitation on transportation

SOURCE: Energy Insights