US

OIL PRICE OUTLOOK

FEBRUARY 2017



### **Key Messages**

- 1. OPEC output deal may have a limited impact on prices. Despite signs of compliance, implementation and monitoring is challenging in some countries
- 2. Going forward, inventory correction and the lagged effect of CAPEX cuts should lead to higher prices
- 3. The recovery of U.S. shale production is expected to prevent a steep upturn in prices; nevertheless, there is uncertainty on the extent and speed of the rebound
- 4. Little to no upside from demand. Demand growth continues to be supported by emerging markets and the U.S., but it has eased
- 5. Slow recovery and convergence to \$60/bbl, which would be a sweet spot for both consumers and producers

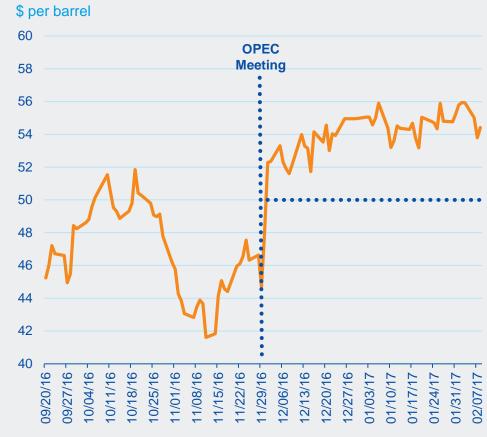


#### **OPEC DEAL**

# OPEC deal carries prices back above \$50/bbl

- Deal should be seen as an effort to stabilize the market
- Rather than triggering a rapid and sustained increase in prices, cuts imposed an effective price floor

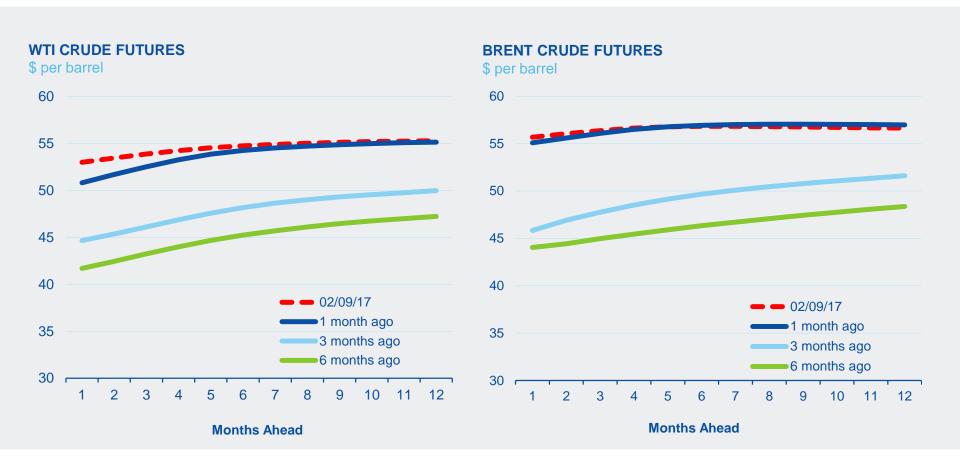
#### **BRENT CRUDE OIL PRICES**





#### **FUTURES**

### Futures rise as markets perceive that OPEC has retaken its role of market stabilizer





#### **OPEC MONITOR**

## January was first big test for OPEC production deal, with estimated compliance more than halfway to target

#### **OPEC PROGRESS TOWARDS PRODUCTION COMMITMENTS\***

	Production Cut Goal (K, bbl/d)	Goal Achieved?	Status Update	
Saudi Arabia	486	✓	Estimated cuts of 500K bbl/d, surpassing target	
Iraq	210	<b>x</b> (120)	Kurdistan region unwilling to cooperate with cuts; difficulties in lowering output without triggering contractual obligations to pay IOCs	
UAE	139	✓	Estimated cuts of 160K bbl/d, surpassing target	
Kuwait	131	✓	Estimated cuts of 150K bbl/d, surpassing target	
Venezuela	95	<b>x</b> (70)	Announced in late December that cut would be implemented starting Jan. 1, but then Maduro announced plan to stabilize oil prices	
Angola	78	<b>x</b> (0)	State oil company has announced output cuts in accordance with deal	
Algeria	50	✓	Estimated cuts of 70K bbl/d, surpassing target	
Qatar	30	<b>x</b> (5)	Started informing customers in December of supply cuts starting Jan. 1	
Ecuador	26	<b>x</b> (20)	Reduction to be result of allowing production at mature oil fields to fall; peak reductions to occur in March and April	
Gabon	9	✓	Estimated cuts of 15K bbl/d, surpassing target; rejoined OPEC in July; faced falling oil production last year, headlined by a large-scale strike by oil workers	

<sup>\*</sup>No production adjustment for Libya or Nigeria; Proposed production increase of 90K for Iran Source: BBVA Research, Bloomberg & news sources



#### **NOPEC MONITOR**

## Bulk of non-OPEC production cuts to come from Russia, but achievement of goal will take time

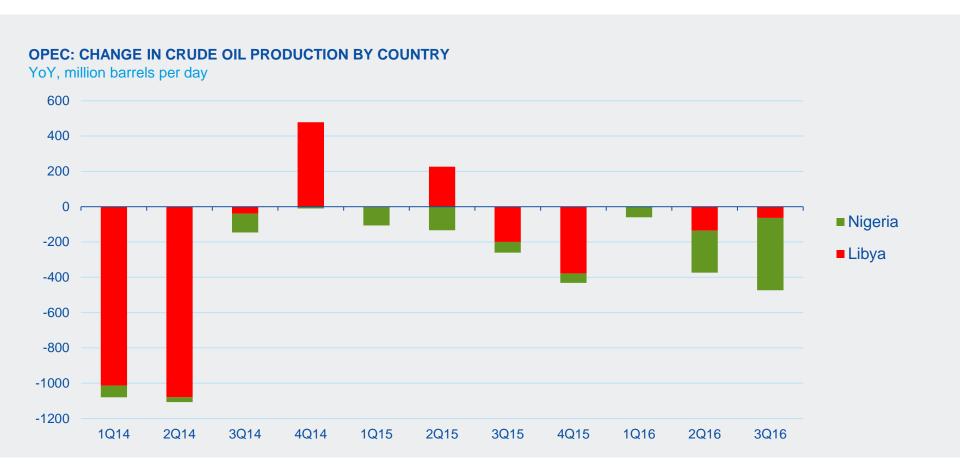
#### NON-OPEC PROGRESS TOWARDS PRODUCTION COMMITMENTS

	Production Cut Goal (K, bbl/d)	Goal Achieved?	Status Update	
Russia	300	<b>*</b> (117)	Surpassed Jan. goal of 50K; expect to reach 300K by end of 1H2017, but has announced increase in oil exports in 2017	
Mexico	100	?	Reduction to be result of allowing production at mature oil fields to fall	
Oman	45	?	Energy minister said that daily production quotas for oil producing companies have been set, but that country will maintain production of 1M bbl/d this year.	
Azerbaijan	35	✓	Began implementing production cuts on January 1. Energy minister said output had been cut to 789K in Jan	
Kazakhstan	20	✓	Energy ministry stated that commitment had already been met, but plans to increase output in 2017	
Malaysia	20	?	State oil firm to implement cuts starting in January; 2 <sup>nd</sup> straight year of production decline	
Equatorial Guinea	12	?	Applied to join OPEC	
Bahrain	10	?	No status update	
South Sudan	8	æ	In the process of doubling crude production after 2 year halt	
Brunei	4	?	No status update	
Sudan	4	?	No status update	



#### **SUPPLY**

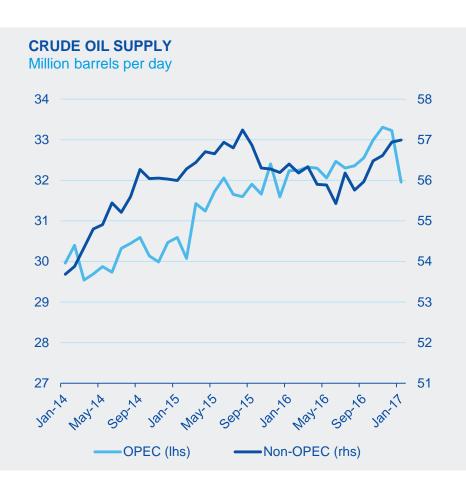
### Upside risks from Libya and Nigeria remain subdued

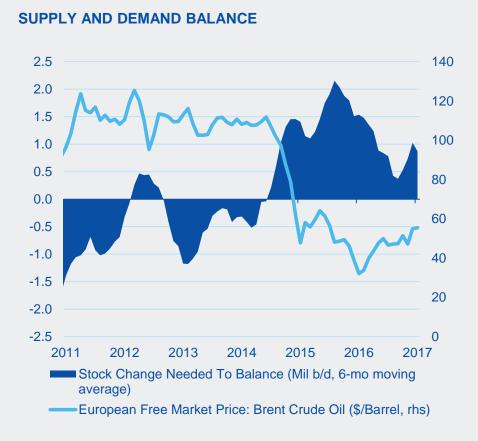




#### **OPEC DEAL**

## OPEC could decide to extend its production quotas in 2H17, but some members say this may be unnecessary





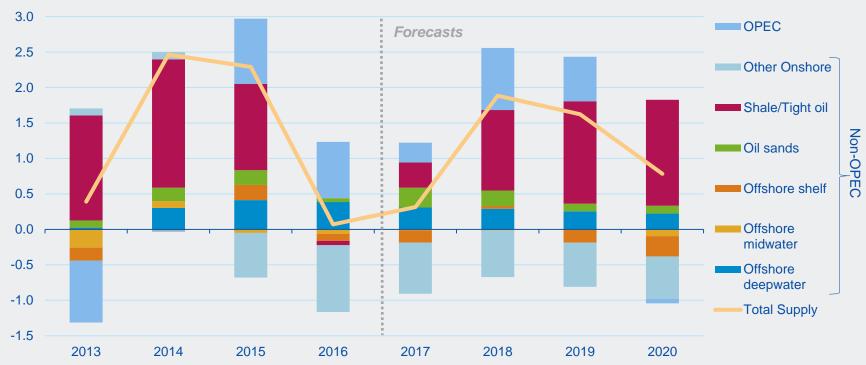


#### **SUPPLY**

### A more competitive environment will continue to hinder the ability of OPEC to stabilize the market

#### NET ADDITIONS IN GLOBAL LIQUIDS SUPPLY BY SUPPLY SEGMENT GROUP

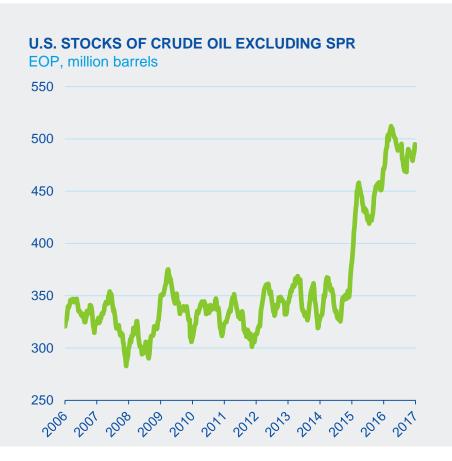


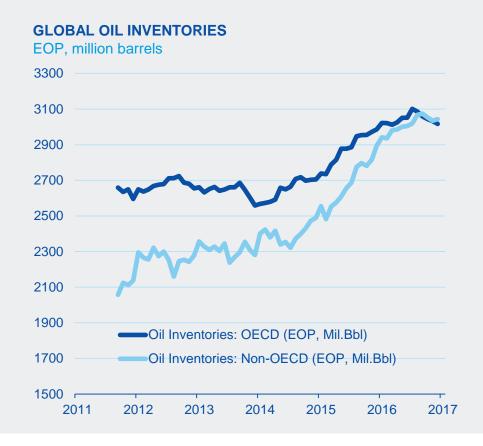




#### **INVENTORIES**

### Signs of a more balanced market will emerge as inventories continue to decline

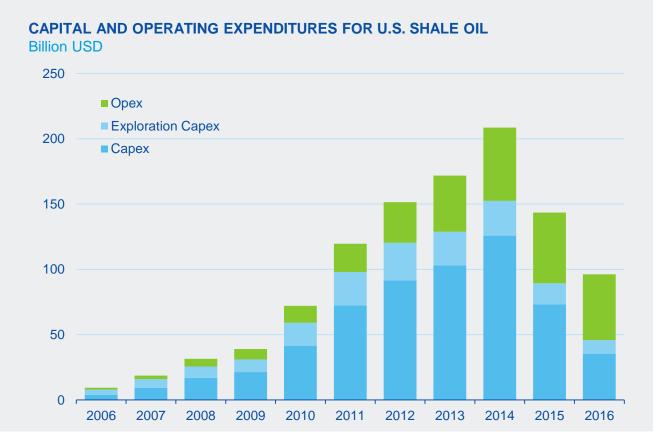






#### **CAPEX**

### Shale producers to increase CAPEX in response to upturn in prices



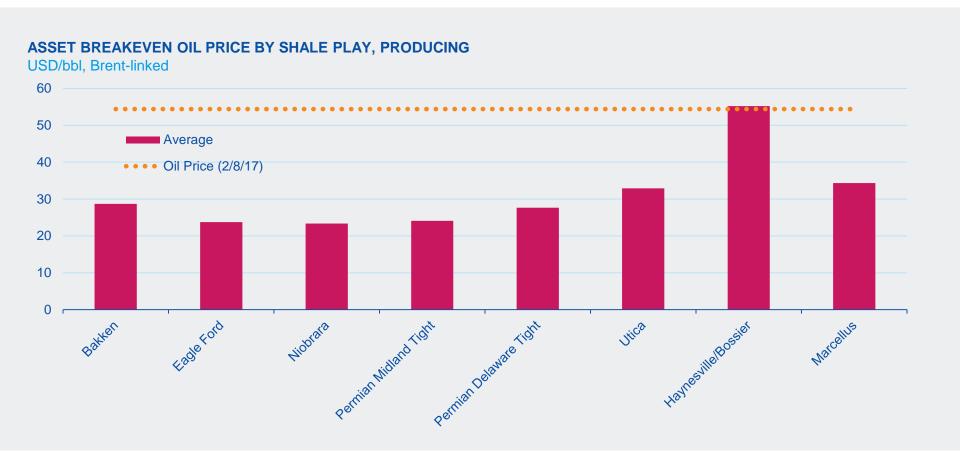
- Slowdown in capital spending resulted from a weak price environment
- Many shale companies covering CAPEX with cash flows, moving away from strong reliance on debt
- CAPEX expected to rise this year, especially as larger U.S. companies spend on drilling and completing wells

Source: Rystad Energy UCube



#### **U.S. RECOVERY**

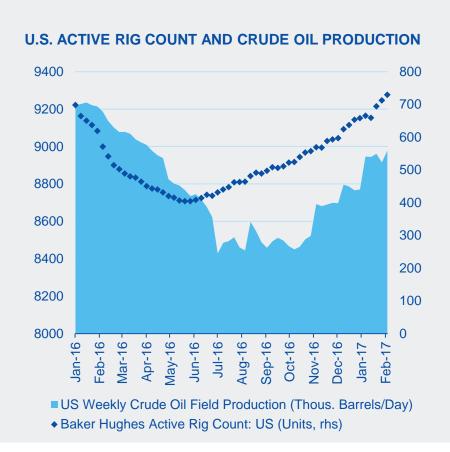
### Economics of fracking continue to remain favorable

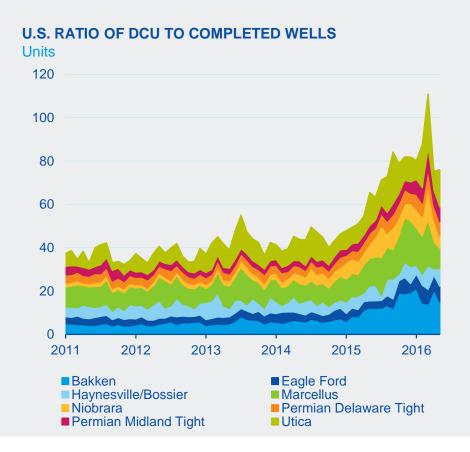




#### **U.S. RECOVERY**

### Recent production gains explained by uptick in completed wells







#### **POLICY**

### Trump's America First Energy Plan: Make oil & gas great again

#### Corporate Tax Reform

- Destination Based Cash Flow Tax (DBCFT) would lower corporate tax rate to 20%
- U.S. oil industry incentivized to export more crude oil and products and import less;
  refiners would shift toward domestic crude sourcing

## Keystone and Dakota Access Pipelines

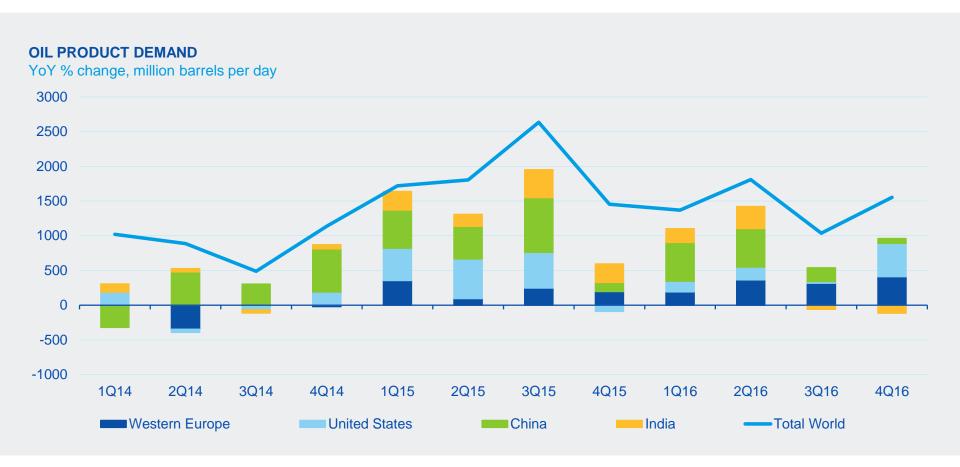
- Advancing pipelines is expected to decrease costs of moving oil to refineries and lower breakevens
- However capacity to generate further investments in oil and gas will be challenged by the current levels of oil prices

#### Deregulation

- Withdrawal from CPP, COP21; elimination of Climate Action Plan
- Suspending social cost of carbon calculation
- Possibility of turning over federal lands to local control, which could facilitate drilling

#### **DEMAND**

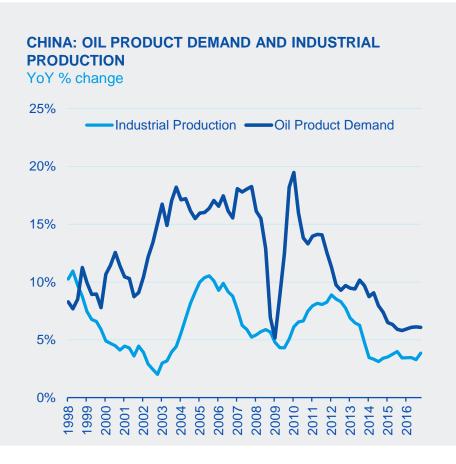
## Non-OECD countries expected to lead demand in long-term, despite signs of slowing growth

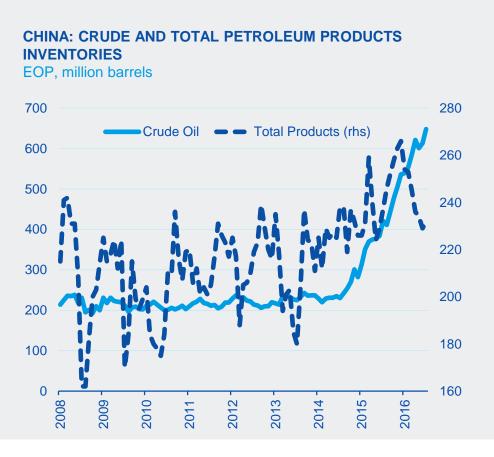




#### **CHINA**

## China's rebalancing and transition to a cleaner economy may result in slower growth of demand for fossil fuels



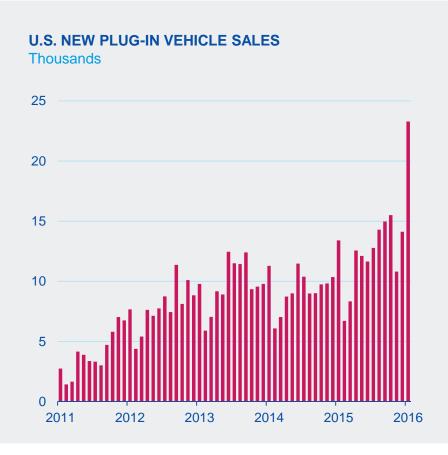


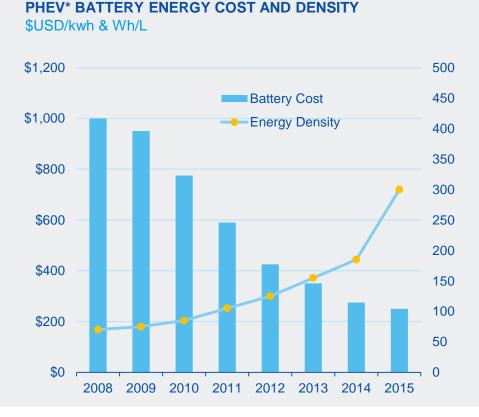
**DEMAND** 



#### **ELECTRIC VEHICLES**

### Improvements in lithium-ion batteries could make electric vehicles cost competitive by 2020







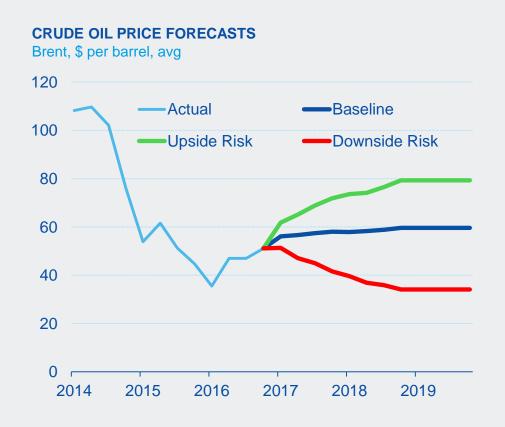
#### **OIL PRICE FORECASTS**

### Slight upward revisions to 2017 and 2018 figures

#### **CRUDE OIL PRICE FORECASTS**

Brent, \$ per barrel, avg

	Baseline	Upside	Downside
2015	52.8	52.8	52.8
2016	45.2	45.2	45.2
2017	57.0	66.9	46.2
2018	58.7	75.8	36.6
2019	59.6	79.3	34.1





#### **EXCHANGE RATE**

## Prices are expected to move above our previous baseline, but increases could be limited by a strong dollar

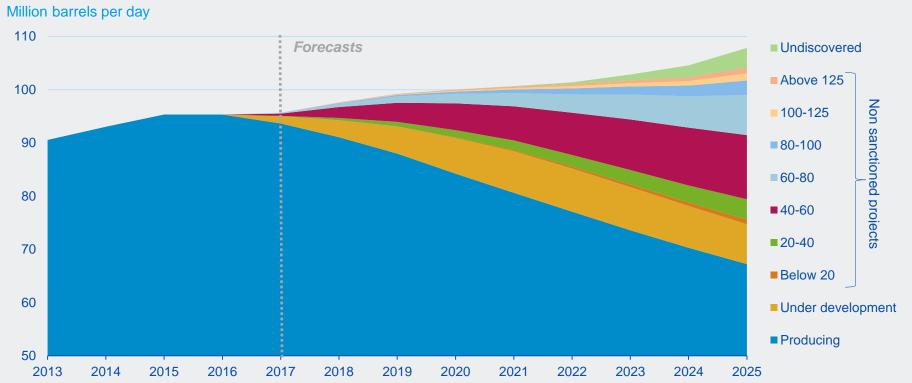




#### **SUPPLY**

### More than half of liquids from new supply sources are expected to be commercial below \$60/bbl



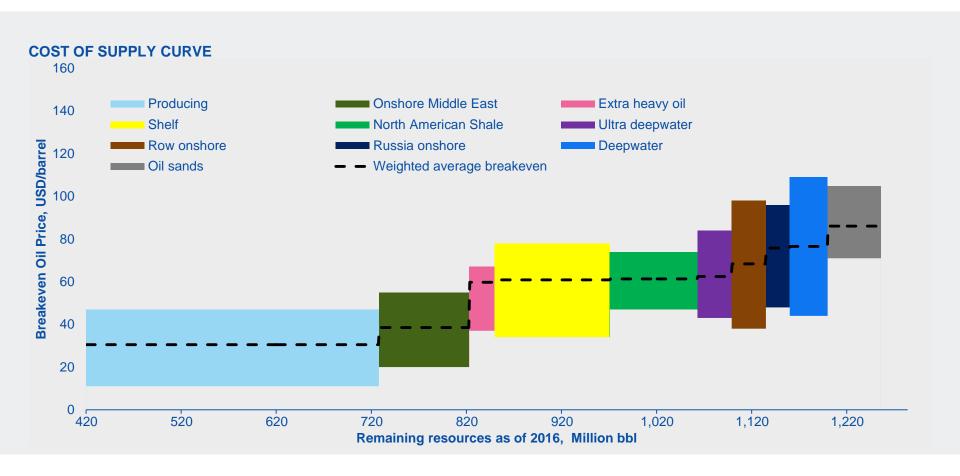


Source: Rystad Energy UCube 20



#### **SUPPLY**

## \$60/bbl would make several projects profitable again, but high-cost producers would still be out of the market



Source: Rystad Energy UCube 21

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