
OIL: BACKWARDATION TO THE FUTURE

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Oil futures curves have been in backwardation - when the closer futures contract can be sold for a higher price than it costs to buy a futures contract with a further expiry date, resulting in a profit for the investor - for most of the past year, driven by perceived tightness in short-term supply¹. This has provided investors with 'roll yield' on top of the gains made from spot price movements in oil.

While we believe that the oil market is balanced at present, there is supply tightness in specific areas - especially in heavier crudes - and this could be enough to ensure that the oil futures curve remains mostly in backwardation going forward. Here's a closer look at current oil market supply and demand dynamics.

Oil curve backwardation

Recent curve backwardation has largely been engineered by the Organisation of Petroleum Exporting Countries (OPEC). Since January 2017, the oil cartel has restricted the supply of oil by assigning its members and partners a quota for the amount of oil that they produce. Although the cartel has historically had a poor history of complying with quotas, this time it has done exceptionally well. Part of the reason for this, is that up until June 2018, each country was allocated an individual quota (rather than a group-wide limit) and this helped to restrict oil supply.

Another reason OPEC has done well in complying with quotas is because of unintended production disruptions. Recently, Venezuela has experienced an economic implosion, and this has impacted oil production significantly. Supply disruptions in Libya and Nigeria have also contributed to OPEC supply volatility.

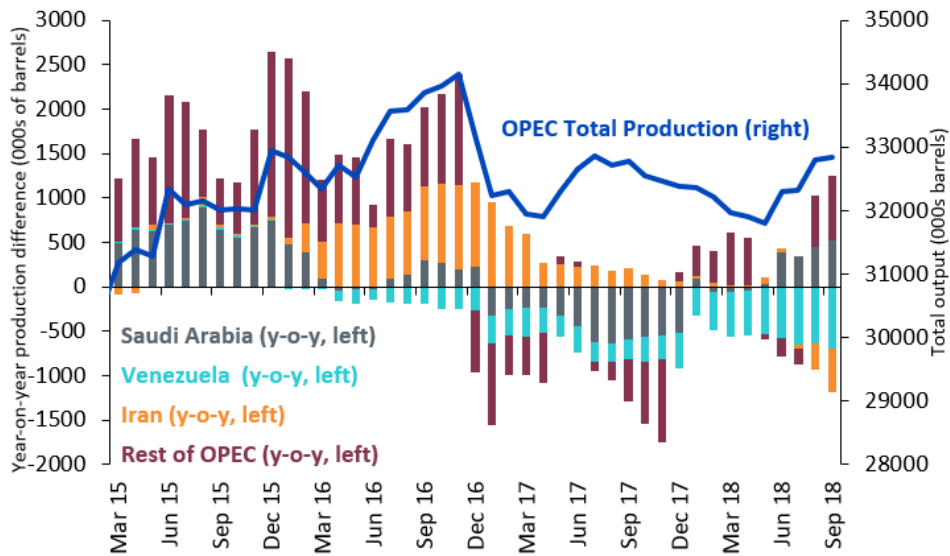
Can backwardation last?

In June 2018, OPEC abandoned individual country quotas, so the level of quota compliance that we have seen over the past year may not last if the organisation reverts to its old ways. This could explain why the very front of the Brent futures curve went back into contango - when it costs more to buy the new futures contract than the amount received from selling the old futures contract - in July and August. Indeed, Saudi Arabia - the largest OPEC nation - has clearly expanded production since the end of the country-quota system, as have other countries.

After going back to an all-backwardated curve, the short end of the curve is now back in contango, a move underpinned by fears of over supply from increasing rig count in the US, as well as delays in the full implementation of sanctions on Iran. Despite those recent developments, we do not expect them to significantly impact long term supply. While the front end of the curve will remain prone to shifts, we do not see it to

durably get back to a mostly contangoed curves.

Figure 1: Year-on-year difference in OPEC oil production



Source: Bloomberg, WisdomTree, data available as of close 05 October 2018.

Historical performance is not an indication of future performance and any investments may go down in value.

Tightness concentrated in heavy crudes

In relation to supply disruption, supply of the ‘heavier’ crudes is most at risk, in our view. Venezuela, Iran and Canada produce ‘heavy’ (low API gravity), ‘sour’ (high sulphur) crudes and these countries experienced the bulk of supply disruption this year.

Most of the world’s growth in crude oil supply is currently from US tight oil, which is ‘light’ (high API gravity) and ‘sweet’ (low sulphur). So, even though global oil supply is close to balance at the headline level, growth in oil production is uneven, with declines in supply of heavy crudes, and gains in supply of light crudes².

Moreover, while US tight oil is seeing supply growth, there are limitations to this growth. Infrastructure needs to grow in lock-step with growth in oil production, and infrastructure limitations could slow the pace at which US shale can help satisfy global oil needs.

Demand remains strong for now

Looking at forecasts from the International Energy Agency (IEA), demand for oil looks set to remain healthy, with the IEA expecting oil demand to grow by 1.4 mb/d in 2018, and 1.5 mb/d in 2019 (following 1.5 mb/d growth in 2017). Over the medium term, the dearth of capital investment in oil production is likely to lead to tightness if demand continues to remain robust.

Oil futures likely to remain in backwardation

While we believe that the market is in balance at present, there is supply tightness in specific areas and this could be enough to ensure that the futures curve remains mostly in backwardation.

We don't believe that a new wave of supply is forthcoming as a lack of investment in oil exploration and production should keep supply contained, and it may only take another supply shock to Libya or to Canada to cast doubts on supply. We also think that demand will remain robust, assuming today's bullish demand expectations are not unfounded.

Source

1 For a full description of backwardation, contango, roll yields, spot return, total return, excess return and collateral yield please see Costs and Performance

Tab on our [ETPedia page](#).

2 Energy Information Administration, WisdomTree, data available as of 04 October 2019.

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