

International price forecast September 30, 2013

Crude oil price and market demand forecast

Year	Average WTI Spot	Brent Spot (38.3° API with 0.37% sulphur content)	Gulf Coast ASCI	Average OPEC Basket	Nigerian Bonny Light (33.4° API FOB)	Mexico Maya (21.8° API FOB)	Russia Urals (31.7° API FOB)
	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl	US\$/bbl
	Real	Real	Real	Real	Real	Real	Real
Forecast							
2013	\$100.00	\$110.00	\$102.00	\$107.25	\$108.00	\$100.00	\$108.00
2014	\$95.00	\$103.00	\$95.00	\$100.25	\$101.00	\$93.00	\$101.00
2015	\$90.00	\$95.00	\$88.00	\$92.25	\$93.00	\$85.00	\$93.00
2016	\$88.00	\$93.00	\$86.00	\$90.25	\$91.00	\$83.00	\$91.00
2017	\$88.00	\$93.00	\$86.00	\$90.25	\$91.00	\$83.00	\$91.00
2018	\$85.00	\$90.00	\$83.00	\$87.25	\$88.00	\$80.00	\$88.00
2019	\$85.00	\$90.00	\$83.00	\$87.25	\$88.00	\$80.00	\$88.00
2020	\$85.00	\$90.00	\$83.00	\$87.25	\$88.00	\$80.00	\$88.00

Forecast comments

- International crude quality reference points for OPEC Basket, Venezuelan, Nigerian, UAE, Mexican, Chinese, Russian and Indonesian crudes are now based on Brent in US\$. For the purposes of this forecast Brent is receiving a premium to WTI on the world markets.
- US Gulf coast crudes are also receiving a premium to WTI for the first few years of the forecast then return to normal spreads.
- Current forecasts for other Crude Oil reference points are based on historical trends to the WTI price.
- Brent, United Kingdom crude is based on 38.3°API with 0.37 percent sulphur content. Brent blend is a light sweet North Sea crude oil that serves as an international benchmark grade.
- United States Gulf Coast Argus Sour Crude Index (ASCI) is a blend of offshore Gulf Coast oil from Mars, Poseidon, and Southern Green Canyon.
- OPEC Basket represents the current grouping of crude oil prices from the OPEC member countries.
- Russia Urals 31.7°API is the FOB delivered price to the Mediterranean destinations.

Natural gas price and market demand forecast

Year	USD to GBP Exchange	USD to EUR Exchange	NYMEX	Permian Waha	San Juan Ignacio	Gulf Coast (Onshore)	Louisiana East Texas	Rocky Mtn. Opal	UK NBP
	Rate	Rate	US\$/Mcf	US\$/Mcf	US\$/Mcf	US\$/Mcf	US\$/Mcf	US\$/Mcf	US\$/Mcf
			Real	Real	Real	Real	Real	Real	Real
Forecast									
2013	1.600	1.300	\$3.80	\$3.60	\$3.50	\$3.65	\$3.80	\$3.65	\$10.00
2014	1.600	1.300	\$4.00	\$3.80	\$3.70	\$3.85	\$4.00	\$3.85	\$9.00
2015	1.600	1.300	\$4.20	\$4.00	\$3.90	\$4.05	\$4.20	\$4.05	\$7.70
2016	1.600	1.300	\$4.40	\$4.20	\$4.10	\$4.25	\$4.40	\$4.25	\$7.90
2017	1.600	1.300	\$4.60	\$4.40	\$4.30	\$4.45	\$4.60	\$4.45	\$8.10
2018	1.600	1.300	\$4.90	\$4.70	\$4.60	\$4.75	\$4.90	\$4.75	\$8.40
2019	1.600	1.300	\$5.10	\$4.90	\$4.80	\$4.95	\$5.10	\$4.95	\$8.60
2020	1.600	1.300	\$5.30	\$5.10	\$5.00	\$5.15	\$5.30	\$5.15	\$8.80

Forecast comments

- The NYMEX price is based on delivery at the Henry Hub in Louisiana, the nexus of 16 intra- and interstate natural gas pipeline systems that draw supplies from the region's prolific gas deposits.
- The NYMEX market trades natural gas futures to the year 2024.
- Expanded world activity has also given cause to provide an estimate for the United Kingdom NBP price.

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