



The ICE Brent Index

March 2019

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THE ICE BRENT INDEX

The cash settlement price for the ICE Brent Future is based on the ICE Brent Index ('The Index') on expiry day for the relevant ICE Brent Futures contract month. The Index represents the average price of trading in the BFOE (Brent-Forties-Oseberg-Ekofisk-Troll) cash or forward ('BFOE Cash') market in the relevant delivery month as reported and confirmed by the industry media. Only published cargo size (600,000 barrels) trades and assessments are taken into consideration in the calculation.

Calculation

The calculation of the ICE Brent Index will be the average of five values. These will be aggregated into a single figure for the final ICE Brent Index figure from the five standalone valuations at each of the sampling points.

Each of those five figures will be calculated by averaging the sum of:

- 1) The volume weighted minute marker for the **second** month ICE Brent Futures contract at the sampling time; and the sum of a weighted average of full cargo **second** month EFP trades and a weighted average of full cargo spread trades (between **first and second** months) in the Cash BFOE market, in the **30 minute** period concluding at the sampling point in question; and
- 2) that same volume weighted minute marker to the sum of the straight averages of the independent assessment(s) specified in the Index methodology for the **second** month EFP value and the spread between the **first and second** month Cash BFOE markets at the sampling point; and
- 3) a weighted average of any full cargo **first** month Cash BFOE trades (if any) in the **5 minute** period concluding at the sampling point in question.

Should trades occur in only **one** of the component markets of section 1 above, the **missing** trade-derived value will be replaced in the calculation above by an independent assessment of that component market at that time, but only where no trade in that component market has occurred.

Should trades occur in **neither** component market during the 30 minute period in question, then the value for that sampling time will be calculated as per paragraphs 2 and 3 only, i.e., on the basis of independent assessments and any full cash cargoes only.

Should no trades occur in component market 3, then the value for that sampling time will be calculated as per paragraph 1 and 2 only, i.e. on the basis of independent assessments and/or any EFP and/or spread trade only.

1. VOLUME WEIGHTED SECOND MONTH MINUTE MARKERS

Tradable minute markers will exist for the second month ICE Brent Crude Futures contract at the following sampling times: 10:30, 12:30, 14:30, 16:30 and 19:30. Two of the second month minute markers already exist, which are calculated at 16:30 (the 'tradable ICE Brent London Minute Marker') and 19:30 (settlement). Please note, the 19:30 marker is a two minute marker.

2. FULL CARGO SECOND MONTH EFP TRADES AND FULL CARGO SPREAD TRADES (BETWEEN FIRST AND SECOND MONTHS)



For inclusion in the Index calculation, the full cargo EFP must be traded in the 30 minutes before the sample time, so 10:00:00 to 10:29:59 for the 10:30 sampling point, 12:00:00 to 12:29:59 for the 12:30 sampling point and so forth. If the cargo trades any time after 10:30 or 12:30 and so forth, it will not be included in the Index calculation. If the trade appears to be close to the cut-off, the Exchange will reach out to participants on one or both sides, and/or to brokers to clarify when the trade actually occurred. Under its cargo exclusion policy, ICE Futures Europe reserves the right to omit trades that cannot be substantiated to the satisfaction of the Exchange.

3. INDEPENDENT ASSESSMENTS

ICIS assess the M2 EFP and M1/M2 Cash BFOE Spread at 10:30, 12:30, 14:30, 16:30 and 19:30 on expiry day. These independent assessments of the M2 EFP and M1/M2 Cash BFOE Spread are used in the calculation of the Brent Index.

4. FIRST MONTH CASH BFOE TRADES

To be included in the Brent Index, full cargo front month cargo trades must happen within 5 minutes of the cut-off time. These are at: 10:25:00 to 10:29:59, 12:25:00 to 12:29:59, 14:25:00 to 14:29:59, 16:25:00 to 16:29:59 and 19:25:00 to 19:29:59.

5. DATA SOURCE

Component	Source: ICE	Source: ICIS	Source: Other (direct enquiry)
M2 Minute Markers	✓		
M2 EFPs		✓	✓
Front month Spreads		✓	✓
Front month outright cargoes		✓	✓
Independent assessments		✓	

6. CURRENTLY USED PRICE REPORTING AGENCIES:

NO.	NAME	WEBSITE
1.	ICIS	http://www.icis.com/energy/crude-oil/

APPENDIX 1 (Available [here](#) as an Excel document):

ICE BRENT INDEX METHODOLOGY																												
ICE Minute Markers		Cargo Trades as reported by independent assessors				Independent Assessments				Cargo Trades as reported by independent assessors		Calculation																
ICE Brent Index M2 Minute Marker	Price (\$/bbl)	Premia for M2 EFP Trades (i.e. the differential between M2 cash BFOE and M2 ICE Brent Futures)			M1/M2 Cash BFOE Cargo Spread Trades		Independent Assessment of M2 EFP Premia (i.e. the differential between M2 cash BFOE and M2 ICE Brent Futures)		Independent Assessment of M1/M2 Cash BFOE Cargo Spread		M1 Cash BFOE full cargo trades		Time	ICE Brent Index M2 Minute Marker (A1)	Weighted Average Premia for M2 EFP trades (A1a)	Weighted Average M1/M2 Cash BFOE Spread Trades (A1b)	M1 Cash/M2 Futures based on Trades (A1) (derived from A1a + A1b)	Value (A) (derived A1 + A1i)	ICE Brent Index M2 Minute Marker (B1)	Average Independent Assessment of M2 EFP Premia (B1a)	Average Independent Assessment of M1/M2 Cash BFOE Spread Trades (B1b)	M1 Cash/M2 Futures based on Assessments (B1) (derived from B1a + B1b)	Value (B) (derived B1 + B1i)	Weighted Average of M1 Cash BFOE full cargo trades (C)	Weighted Average of A, B and C			
Time		Time	Trade Time	Premia (\$/bbl)	Trade Time	Price (\$/bbl)	Assessment Time	Price (\$/bbl)	Time	Price (\$/bbl)	Time	Trade Time																
10:30		10:00:00 to 10:30:00					10:30		10:30		10:25:00 to 10:30:00		10:30		No Input	No Input	-	-					-	No Input	-			
		Outside Period									Outside Period																	
12:30		12:00:00 to 12:30:00					12:30		12:30		12:25:00 to 12:30:00		12:30		No Input	No Input	-	-					-	No Input	-			
		Outside Period									Outside Period																	
14:30		14:00:00 to 14:30:00					14:30		14:30		14:25:00 to 14:30:00		14:30		No Input	No Input	-	-					-	No Input	-			
		Outside Period									Outside Period																	
16:30		16:00:00 to 16:30:00					16:30		16:30		16:25:00 to 16:30:00		16:30		No Input	No Input	-	-					-	No Input	-			
		Outside Period									Outside Period																	
19:30		19:00:00 to 19:30:00					19:30		19:30		19:25:00 to 19:30:00		19:30		No Input	No Input	-	-					-	No Input	-			
		Outside Period									Outside Period																	
ICE Brent Index																												

*1: Should trades occur in neither component market (for A1i) during the 5 minute period in question, then the value for that sampling time will not be calculated.

*2: Should no trades occur of first month BFOE cash full cargoes at the sampling point in question, then the intraday value will be based on the average of A (if applicable) and B only.