



LEBA TTF Pricing Index

Price Calculation Methodology

Day-ahead Index

The Day-ahead Index is calculated using a volume-based, weighted average of all Day-ahead trades executed in London by contributing brokers between 08:00 and 17:00 hours London time each day. The Index values gas trades for delivery on the day, or days in the case of weekends, following the deal date (Trade Day). The delivery day is the Index day. In the Index, weekends shall be calculated using a volume-based, weighted average of all weekend trades executed in London by contributing brokers between 08:00 and 17:00 hours London time on the previous business day. In the calculation of the Index, previous business day convention shall apply.

Day-ahead Window Index

The Day-ahead Index is calculated using a volume-based, weighted average of all Day-ahead trades executed in London by contributing brokers between 16:20:00 hours and 16:30:00 hours London time each day. The Index values gas trades for delivery on the day, or days in the case of weekends, following the deal date (Trade Day). The delivery day is the Index day. In the Index, weekends shall be calculated using a volume-based, weighted average of all weekend trades executed in London by contributing brokers between 16:20:00 hours and 16:30:00 hours London time on the previous business day. In the calculation of the Index, previous business day convention shall apply.

Month Ahead Index

The Month Ahead Index is calculated using a volume-based, weighted average of all Month-ahead trades executed in London by contributing brokers between 08:00 hours and 17:00 hours London time each day. The Index values gas trades for delivery within the month following the deal date (Trade Day). The delivery month is the Index month. In the calculation of the Index, previous business day convention shall apply.

Trades to be included in the Index

LEBA TTF Indexes

For a trade to be included in the Index it must occur on a trading day between 08:00 and 17:00 London time, on the trade date.

If other delivery dates become liquid then these also will be calculated in addition to the dates above.

For the purposes of these Indexes, trading days are every day except Saturday, Sunday, New Years Day, Good Friday, Easter Monday, Christmas Day and Boxing Day.

Definition of a trade

A trade is defined as any and every transaction (excluding sleeves - *see below*) conducted by a broker on behalf of a counterparty. This would include any trades resulting from delta hedging of option trades.

Sleeves

If a company does a free sleeve to help two other companies who would not otherwise be able to trade with one another, then this will only count as one trade for the purposes of the Index. A free sleeve is defined as buying and selling the same volume at the same price between two companies as a favour to those other companies. If a company charges to do the sleeve, i.e. they buy at a lower price than they sell this will count as two trades for the purposes of the Index.

Index Publication

LEBA member firms will submit their trades to LEBA at the end of every trading day for calculation.

Member firms will not include details of the counterparties involved, only the price, volume and time of each trade.

LEBA will endeavour to publish the Indexes at 18:30 London time on the London business day of the trading day, and may publish the Indexes on the LEBA website on or after that time. However, LEBA does not guarantee to be able to publish the data by this time.

LEBA will not publish on days that are not trading days, but will publish the Index on the next London business day.

Contingent methodologies

Day-ahead index

Five or more trades: Should the number of trades executed in a day be five or more, the Index will be calculated using a weighted average of those trades.

Between one and four trades: Should the number of trades executed in a day be between one and four, the Index will continue to be calculated using a weighted average of those trades. However, a notation will be made on the Index page to the effect that the calculation has been based on less than five trades.

No trades during a working day: Should there be no trades during a working day, an average will be taken of the previous three working days. A notation will be made on the Index page to that effect.

Day-Ahead Window Index

A minimum volume of 570 MWh must have traded within the window to set the Index. If less than 570 MWh is traded between 16:20:00 hours and 16:30:00 hours London time, then the Index will continue to include the last trades concluded before the commencement of the Index window until the minimum volume threshold of 570 MWh is achieved.

Working days and weekends

Working days are any days other than Saturdays and Sundays on which banks are open for business in London. Weekends are Saturdays, Sundays and any adjacent London Bank Holidays.

Previous business day convention

In the event of a UK Public Holiday, the weekend indices will be derived from the price traded on the previous London business day for those days. For example, if Monday is a London Bank Holiday, the weekend Index published on Friday will be inclusive of Saturday through to Monday and the day-ahead Index published on Friday will have Tuesday as its Index day. The data used in these Indexes will comprise all trades transacted between 08:00 and 17:00.

In the case of Christmas and New Year holidays falling on a weekday other than a Monday, a Weekend Index will be published along with the Day Ahead. For example, if Christmas Day and Boxing Day fall on a Tuesday/Wednesday, a Day Ahead and Weekend index will be published on the Monday.

Publication of the Indices

The Indices will be calculated from data provided by the contributing brokers and LEBA will endeavour to publish by 18:30 hours London time each day. However, LEBA does not guarantee to be able to publish the data by this time.

Contributing Brokers

Before calculating the TTF Indexes, LEBA (or whoever is calculating the Index), shall verify if all the contributing firms have made their data available for that day in accordance with the established procedures:-

If one or more of the firms have failed to provide data to LEBA by 17:30 London time, they (or whoever is calculating the Index) shall use their reasonable efforts to contact such firms by telephone and e-mail and remind them of their obligation to provide the data. LEBA will contact these firms again at 17:45 on the same business day.

If by 18.00 London time on the day same trading day, LEBA has received data from a minimum of three brokers, or 50% of contributing firms (rounded up), then it may calculate and publish the Index, making a note on any publication method of the number of firms who provided data. In the calculation of the Index, previous business day convention shall apply.

If less than that number of firms provides data, LEBA will determine both what is published and the accompanying message.

Contributing Brokers Obligations

All contributing brokers shall on each Trade Day make all relevant Data created on that Trade Day available to LEBA in the format on or before the applicable time. However, if any contributing broker is unable for any reason not to make all relevant Data available by the applicable time, LEBA reserves the right at its discretion to publish the Index without data from all contributing brokers.

Revisions to data

LEBA will make every effort to ensure the accuracy and timeliness of data. However, LEBA reserves the right to revise or amend any data published at any time.

Notification of changes

LEBA will make every effort to communicate changes to the specification in a timely and effective manner, but reserves the right to make any changes when necessary at any time without prior notice.