



CLASSIFICATION	C2: Internal Information
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Manual Bidding of Balancing- and Transport Power

Amendments to Register:

Version number	Date	Amendment
0.1	18 September 2000	Initial version
0.2	27 September 2000	Incorporation of project members' comments Incorporation of new version of MIG QUOTES 0.5
0.3	20 October 2000	- Workshop version - Incorporation of definitive version of MIG QUOTES 1.0
1.0	04 December 2000	- Definitive version - Adjustment of permissible values for object of regulation and dispatch time - Amendment of closing term as at day of delivery
1.1	12 December 2001	Revision of objects of regulation and update of handbook
1.2	12 May 2003	Changes to chapter 2 (PTU adjustment)
2.0	June 2010	Adaptation to UTIL TS, Blockbids
2.1	February 2011	Adjustment limits Blockbids
2.2	25 May 2012	Adjustment Gate Closure Time
2.3	November 2017	Adjustment Power
2.4	January 2018	Adjustment Gate Closure Time
3.0	January 2019	Update lay-out, Adjusted content in accordance with the amendment of 'Netcode Elektriciteit' (ACM/18/032994)
4.0	January 2020	Obligation contract number aFRR changed to optional

1. Introduction

This document contains instructions for submitting bids balancing- and transport power (BTP)¹ to TenneT TSO, as guideline for BSPs² and TSPs³. Topics that will be discussed in this document are the attributes of the bid (significance, permissible values), the timetable and the transitions from summer to winter time.

A bid is an option, whereby the bidder sets a minimum condition (bid price) for acceptance of the risks of allowing some volume (up to the extent of the bid per ISP⁴) in adjustment of its imbalance.

The BSP/TSP is responsible for meeting the bidding requirements; incorrect bids will be rejected by TenneT. TenneT is responsible for timely activation, and respecting the bidders minimum requirements with respect to the preparation period⁵ and the delivery period⁶.

TenneT is responsible for correct settlement of activated bids and ensuing adjustment of imbalances. The BSP/TSP is responsible for the delivery of the energy, corresponding to the bid activated by TenneT, during the delivery period.

Further information on balancing and transport power can be found in the 'Netcode Elektriciteit', the Implementation Rules and the product information documents on www.tennet.eu. In case of differences between the texts, the text of the 'Netcode Elektriciteit' prevails. If the topic is not described in the 'Netcode Elektriciteit' the text of the Implementation Rules shall prevail.

Note that any reference to a time of day shall be CET.

1.1 Categories bids balancing- and transport power

All bids BTP belong to one of the following:

1. Balancing purposes:
 - a. Bids aFRR⁷ contracted, preparation period = 0, delivery period = 1
 - b. Bids aFRR not contracted, preparation period = 0, delivery period = 1
 - c. Bids mFRRsa⁸, preparation period = 1, 2 delivery period = 1
2. Other purposes
 - a. Bids Reserve power, preparation period \geq 3, delivery period \geq 4

¹ BTP includes aFRR, mFRRsa and Reserve power other purposes.

² BSP: Balancing Service Provider

³ TSP; Transport Service Provider

⁴ Imbalance Settlement Period (ISP); previously known as Program Time Unit (PTU)

⁵ Preparation period was previously known as Activation time

⁶ Delivery period was previously known as Activation duration

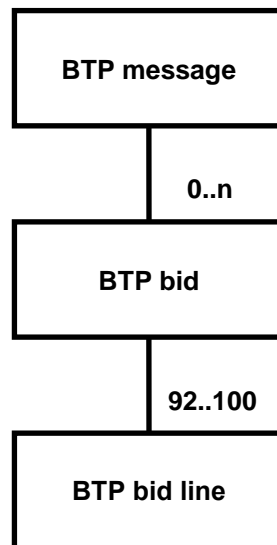
⁷ Automatic Frequency Restoration Reserve; previously known as regulating power

⁸ Manual Frequency Restoration Reserve scheduled activated; previously known as reserve power

As the requirements for bid messages are similar for aFRR, mFRRsa and Reserve power other purposes, this manual will use the generic term BTP.

2. Structure of BTP message

The diagram below shows the structure of the messages of BTP submitted by the BSP/TSP:



The BTP message is made up of a combination of BTP bids, whose number per BTP message is unlimited (n).

A BTP message with number of BTP bids nil (0) indicates the BSP/TSP does not want to submit BTP. Each new BTP message sent overrules all previous BTP messages.

The BTP messages are exchanged in a standardised format, in compliance with the EDI standard for the Dutch energy sector (EDINE).

A detailed description of this format is available at MijnEDSN at www.edsn.nl

The BTP message is sent to the CPS, the central mailbox system, and should be addressed to TenneT/SO.

Each bid BTP is composed of bidding lines, one for each ISP (clock quarter of an hour).

Any normal day counts 96 ISPs, see also chapter 4, transition summer/winter time.

Number of positions and character (numeric, alphanumeric, ...) of the attributes are defined in the UN/Cefact UNSM (in this case UTILTS). With exception of Data Element C506.1154 in the RFF-segment: the number of positions for this Data Element in the messages defined in this document is an..35 instead of the standard an..70 specified in the UNSM.

2.1 Attributes of BTP message

The BSP/TSP is required to confer values upon the following attributes in its BTP message:

Attribute	Unit	Description	Permissible values
BSP/TSP	N/A	Identification of the supplier of balancing- and/or transport power	EAN code
BRP	N/A	Identification of the BRP (Balance Responsible Party) whose imbalance will be adjusted upon activation of a BTP bid.	EAN code
Request	N/A	If the message is submitted at TenneT's request, the TenneT-issued request number must be included	TenneT-issued request number
Date of delivery	N/A	The date for which the bids relate	Date in the range ⁹ current and current + 7 days

⁹ Inclusive threshold values

2.2 Attributes of BTP bid

Each bid in the BTP message is specified through the following attributes:

Attribute	Unit	Description	Permissible values
Contract	N/A	Identification of the contract between the BSP/TSP and TenneT	TenneT-issued contract number comprising 10 alphanumerical characters
Reference	N/A	BSP/TSP-issued unique identification of the bid as part of the message	BSP/TSPs choice
Object	N/A	An object enables a BSP/TSP to couple two bids. From an Object only one bid can be activated.	BSP/TSPs choice
Preparation period	ISP	ISP interval relative to current for which Bid is available to be activated by TenneT; distinguishes aFRR, mFRRsa and Reserve power other purposes	Integer value in the 0 to 672 range ⁹ (7 days) aFRR (contracted/not contracted Preparation period = 0 mFRRsa Preparation period = 1, 2 Reserve power other purposes Preparation period ≥ 3
Delivery period	ISP	Minimum number of consecutive ISPs for admissible activation by TenneT	Integer value 1 or in the range 0 to 672 range ⁹ (7 days) aFRR (contracted/not contracted mFRRsa Delivery period = 1 Reserve power other purposes Delivery period ≥ 4
Power	MW	Quantity + upward - downward	Upward: Integer in range ⁹ 1 ¹⁰ to 999 Downward: Integer in range ⁹ -1 ¹⁰ to -999
Ramping rate	% per minute	Ramping rate, as percentage of bid quantity per minute	One decimal place, value in the range ⁹ 7.0 to 100.0
Location/Grid object	N/A	A connection, or set of connections, within the Dutch high-voltage grid, from which bidder will dispatch on activation. This connection or set of connections belongs to one owner or administrator.	EAN code

¹⁰ A message is only allowed to contain 3 bids with a size smaller than 4 MW

- A aFRR object couples two bids of opposite sign (upward/downward)
- A Reserve power object other purposes couples two bids with similar quantity and preparation period, but with different delivery period and price.

2.3 Attributes of BTP bid line

Each ISP on the date of delivery for which the bid is available must be specified.

Attribute	Unit	Description	Permissible values
Availability	ISP	ISP number for which bid applies	Unique Integer value in range ⁹ 1 to 100, ascending
Bid price	€/MWh	Energy price	Two decimal places Value in the range ⁹ -100,000.00 to +100,000.00

- For bids FRR the bid price may vary per ISP; for bids for other purposes the bid price must be constant.
- The symbol (sign) of the product of the quantity and the settlement price denotes the direction of the cash flow, with + indicating that that pays the BSP/TSP and -, that the BSP/TSP that pays TenneT.
- If power = 0, the bid price does not apply.
- € 1.23/MWh = € 0.00123/kWh
- The symbol (sign) of the power offered and the deployment price derived from the offered price dictate the direction of the cash flow:

	Deployment price > 0	Deployment price < 0
Power >0 (upward)	TenneT pays BSP/TSP	BSP/TSP pays TenneT
Power < 0 (downward)	BSP/TSP pays TenneT	TenneT pays BSP/TSP

2.4 Optional aspects of attributes

As the table below shows, the attributes of the message, the bid and the bidding line are either mandatory or optional depending on the category of BTP bid:

Attribute	aFRR	mFRRsa	Reserve power other purposes
BSP/TSP	Mandatory	Mandatory	Mandatory
BRP	Mandatory	Mandatory	Mandatory
Request	Optional	Optional	Optional
Date of delivery	Mandatory	Mandatory	Mandatory
Contract	N/A	N/A	N/A
ID	Mandatory	Mandatory	Mandatory
Object	Optional	N/A	Optional
Preparation	Mandatory	Mandatory	Mandatory

Attribute	aFRR	mFRRsa	Reserve power other purposes
period			
Delivery period	Mandatory	Mandatory	Mandatory
Ramping rate	Mandatory	N/A	N/A
Location	Mandatory	Mandatory	Mandatory
Power	Mandatory	Mandatory	Mandatory
Bid price	Mandatory	Mandatory	Mandatory

Mandatory implies that a value must be specified, in accordance to admissible or prescribed values in 2.2, 2.3 and 2.4

Optional implies that a value might be specified, in accordance to admissible values in 2.2, 2.3 and 2.4

N/A implies that no value must be specified.

3. Timetable

The BTP messages are required to be sent in accordance with a fixed timetable so as to enable TenneT's timely processing of the bids. Time of receipt in the CPS (central mailbox system) is deciding.

3.1 Day of preparation (D-1)

The BTP bids for the day of delivery are required to reach TenneT by 14.45 CET daily on the day prior to that of delivery. BTP messages received by TenneT between 14:45 CET and the time of approval that have not been provided with a valid application number will be ignored (on notification of the sender). As soon as the time of approval has passed, the BTP bids for the day of delivery can be revised. The procedure for the day of delivery comes into operation at 23:00 CET on the day of preparation.

3.2 Day of delivery

On the day of delivery, the deadline for submitting revised BTP bids always closes 30 minutes ahead of each ISP.

Example:

It is 19.12 CET and a BSP/TSP decides to revise its BTP bids for the current day. At this time the BSP/TSP will be permitted to submit changes for the ISP from 19.45 to 20.00 CET and all further ISPs. In the event of the BSP/TSP having changed one or more ISPs preceding that from 19.45 to 20.00 CET, all its BTP bids will be rejected.

4. Transition from winter to summer time and vice versa

On the day of transition from summer (i.e. daylight saving) to winter time (clock put back at 3.00 a.m.), four additional bidding lines are required to be bided in respect of the third hour. This implies for those BSP/TSPs which compile their bids using Excel templates that all bidding lines relating to the fourth and further hours are put back four rows.

A similar mechanism applies on the day of transition from winter to summer time (clock put forward at 2.00 a.m.). Here there are no bidding lines for the third hour, which implies that all bidding lines relating to the fourth and further hours are moved up four lines.

In the following examples the periods that deviate from a 'normal day' are marked.

Transition from summer to winter time (100 bidding lines)		Transition from winter to summer time (92 bidding lines)	
Period (Excel)	Clock hour	Period (Excel)	Clock hour
....
01:30 - 01:45	01:30 - 01:45	01:30 - 01:45	01:30 - 01:45
01:45 - 02:00	01:45 - 02:00	01:45 - 02:00	01:45 - 02:00
02:00 - 02:15	02:00 - 02:15	02:00 - 02:15	03:00 - 03:15
02:15 - 02:30	02:15 - 02:30	02:15 - 02:30	03:15 - 03:30
02:30 - 02:45	02:30 - 02:45	....	....
02:45 - 03:00	02:45 - 03:00	....	....
03:00 - 03:15	02:00 - 02:15	22:15 - 22:30	23:15 - 23:30
03:15 - 03:30	02:15 - 02:30	22:30 - 22:45	23:30 - 23:45
03:30 - 03:45	02:30 - 02:45	22:45 - 23:00	23:45 - 24:00
03:45 - 04:00	02:45 - 03:00	23:00 - 23:15	N/A
04:00 - 04:15	03:00 - 03:15	23:15 - 23:30	N/A
....	....	23:30 - 23:35	N/A
....	....	23:45 - 24:00	N/A
24:00 - 24:15	23:00 - 23:15	24:00 - 24:15	N/A
24:15 - 24:30	23:15 - 23:30	24:15 - 24:30	N/A
24:30 - 24:45	23:30 - 23:45	24:30 - 24:45	N/A
24:45 - 25:00	23:45 - 24:00	24:45 - 25:00	N/A