

Rules for Providing the Balancing Service under the System Ancillary Service Agreement

1. GENERAL PROVISIONS

- 1.1. The Rules determine the procedure by which the balancing service provider (hereinafter – BSP) provides and JSC "Augstsprieguma tīkls" (hereinafter – TSO) receives balancing service within the framework of the System Ancillary Service Agreement (hereinafter – the Agreement).
- 1.2. The following terms are used in these Rules:
 - 1.2.1. **Balancing product** – a product that complies with the specification for the standard product of the manual frequency restoration reserve (hereinafter – mFRR) referred to in the Common Baltic Balancing Market Rules (hereinafter – the Market Rules);
 - 1.2.2. **Balancing energy** – energy used by TSO for balancing and provided by the BSP. The balancing energy amount is determined as the product of the activated balancing power in megawatts and the duration of its activation in hours;
 - 1.2.3. **Balancing product bid** – the amount of reserve capacity that BSP has agreed to maintain for a certain interval of trade and for which the BSP has the right to submit TSO balancing product bids for the duration of the contract;
 - 1.2.4. **Settlement period** – the time period for which the settlements are made for the provision of balancing service; the settlement period is one calendar month;
 - 1.2.5. **Divisibility** – a parameter of the balancing product bid, which means that TSO may only use a part of the balancing product bid offered by the BSP – in terms of the power or duration;
 - 1.2.6. **Baltic common merit order lists** – lists that rank balancing bids by price and are used to activate those bids;
 - 1.2.7. **Delivery point** – is a place in the power grid or within the electrical installations of the electricity user, where the balancing service is delivered and where the control meter is installed, which allows data to be obtained for TSO to evaluate the delivery of the balancing service;
 - 1.2.8. **Electricity meter for the power commercial accounting** – a term explained in Cabinet Regulation No. 50 "[Regulations Regarding the Trade and Use of Electricity](#)" adopted on 21 January 2014;
 - 1.2.9. **Commercial metering data** – data obtained with an electricity meter for the power commercial accounting for recording the amount of electricity and system services at the object of the electricity user or producer for the purposes of settlement of payments, as well as for recording the amount of electrical load during the interval of trade;
 - 1.2.10. **Object** – immovable property with a certain cadastral number (or a separate electrical appliance in the immovable property), the electricity supply of which is connected to the electricity distribution or transmission system, and the system operator has assigned it an electricity identification code (hereinafter – EIC);
 - 1.2.11. **Control metering device** – the term is explained in decision of the Public Services Commission No. 1/4 "[Electricity Sector Network Code](#)" of 26 June 2013 (hereinafter – Network Code);

- 1.2.12. **Interval of trade** – the term explained in Cabinet Regulation No. 50 “[Regulations Regarding the Trade and Use of Electricity](#)” adopted on 21 January 2014;
 - 1.2.13. **Activation order** – a command given by the TSO dispatcher, which indicates the full activation power of the balancing product bid and the activation start and stop time, in a specified interval of trade;
 - 1.2.14. **Technical unit** – is a power generating module, demand unit or an aggregation of power generating modules and/or demand units that is unable to independently provide balancing service;
 - 1.2.15. **Reserve providing unit** – is one such power generating module or demand unit or aggregate of technical units connected to common connection point and which fulfils the requirements for the provision of balancing service;
 - 1.2.16. **Reserve providing group** – is an aggregate of technical units and/or reserve providing units connected to more than one connection point and which fulfils the requirements for the provision of the balancing service;
 - 1.2.17. **Reserve unit (ReU)** – reserve providing unit or reserve providing group, which can ensure the provision of the balancing service;
 - 1.2.18. **Reserve unit with limited energy reservoir (*limited energy reservoir* – LER)** – is a reserve unit, which, if activated for up to two hours in the amount of the maximum allowed bid power for the balancing product, without consideration of the effect of an active energy reservoir management, would lead to a limited ability to provide balancing energy.
- 1.3. The terms used in these Rules, which are not explained in these Rules, are used in the sense that they are used in the Market Rules, Commission Regulation (EU) 2017/2195 of 23 November 2017 establishing a guideline on electricity balancing (hereinafter – EBGL), in Commission Regulation (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation (hereinafter – SOGL), in Commission Regulation (EU) 2016/631 of 14 April 2016 establishing a network code on requirements for the grid connection of generators (hereinafter – RfG) and Commission Regulation (EU) 2016/1388 of 17 August 2016 establishing a Network Code on Demand Connection (hereinafter – DCC).
 - 1.4. The terms specified in these Rules, expressed in working days, are determined with account of the holidays set in Latvia.
 - 1.5. The BSP has the right to supply the TSO balancing product for upward activation and to supply the TSO balancing product for downward activation. The TSO shall determine the requirements for balancing products and the procedure for their submission in accordance with the Market Rules.
 - 1.6. A BSP that uses demand response in the provision of the balancing service is only entitled to supply the balancing product for upward activation.
 - 1.7. The BSP's balancing products shall comply with the product specification contained in Annex 1 of these Rules.
 - 1.8. The balancing product bids received by the TSO and submitted by the BSP in accordance with the requirements of these Rules and the Market Rules shall be included in the Baltic common merit order lists.

2. SUBMISSION OF BALANCING PRODUCT BID

- 2.1. The BSP submits balancing product bid and its update in accordance with the requirements specified in the Technical and Data Exchange Requirements.

- 2.2. The BSP balancing product bid specifies the ReU that will be used in the provision of the balancing product.
- 2.3. The BSP, which uses a ReU, which consists of demand units, in the provision of balancing service, submits a balancing product bid, the fulfilment of which can only be executed by demand units that are located in the imbalance area of the BSP's balance responsible party, and the system operator whose network-connected object in which this demand unit is located is informed about the inclusion of this facility in the BSP's portfolio.
- 2.4. The BSP, which uses a demand unit or their aggregate in the provision of the balancing service, can submit balancing product bid, if the consumption schedule (baseline) and BSP control metering data for all intervals of trade have been submitted in accordance with these Rules and Technical and Data Exchange Requirements during the last 7 days.
- 2.5. BSP can submit balancing product bid, where the offered power does not exceed the maximum balancing product bid power listed in Annex 1 of the Agreement of ReU specified in the bid.
- 2.6. BSPs bid for the next day's intervals of trade may be submitted no earlier than on the current day at 12:00 Eastern European Time (hereinafter – EET).
- 2.7. BSP may submit the balancing product bid and its updates no later than 45 minutes before the interval of trade corresponding to the balancing product bid. After this deadline, the balancing product bid submitted by BSP becomes irrevocable and can no longer be updated.
- 2.8. The TSO evaluates the conformity of the balancing product bid submitted by the BSP with these Rules, Market Rules and Technical and Data Exchange Requirements:
 - 2.8.1. if the balancing product bid submitted by the BSP complies with the Market Rules and Technical and Data Exchange Requirements, TSO shall send the balancing product bid submitted by the BSP for inclusion in the relevant Baltic common merit order list;
 - 2.8.2. if the offer submitted by the BSP does not meet these Rules, Market Rules and Technical and Data Exchange Requirements, TSO informs the BSP about it in accordance with the Technical and Data Exchange requirements no later than 15 minutes after receiving the balancing product bid. Such bids are not included in the corresponding Baltic common merit order list.
- 2.9. If a submitted balancing product bid becomes unavailable due to technical reasons, the BSP is obliged to immediately notify the TSO in accordance with the Technical and data exchange requirements, but no later than 5 minutes before the possible activation of the balancing product bid.

3. ACTIVATION OF BALANCING PRODUCT BID

- 3.1. The TSO has the right to activate any balancing product bid submitted by the BSP only in accordance with the conditions detailed in the bid for the purposes specified in the Market Rules.
- 3.2. The balancing product bid can only be used in the corresponding interval of trade. The activation order must be present at each subsequent interval of trade.
- 3.3. TSO can give the activation order no earlier than 45 minutes before the corresponding interval of trade. The initial activation order may be updated and transferred to the BSP until the end of the relevant interval of trade.
- 3.4. The start and end of the balancing product bid activation take place according to the activation orders given by the TSO dispatcher. The activation order given by the dispatcher to the BSP are transmitted electronically, sending it in accordance with the Technical and Data Exchange Requirements.
- 3.5. BSP is obliged to send acknowledgement for each electronically received TSO dispatcher command in accordance with the Technical and Data Exchange Requirements.
- 3.6. In the event that electronic communication services are not available during the interval of trade, TSO and BSP have the right to use voice telephony to transmit the activation order or acknowledgement of the TSO dispatcher order. TSO and/or the BSP are obliged to send the above information electronically immediately as soon as the availability of electronic communication services is restored.

- 3.7. In the event that no acknowledgement is received from BSP within 1 (one) minute after sending the TSO dispatcher activation order to the BSP, the TSO dispatcher uses the voice telephony to communicate with the BSP to transfer the balancing product bid activation order.
- 3.8. In the event that TSO, in carrying out the actions referred to in Clause 3.7 of the Rules, fails to obtain acknowledgement of the activation order from the BSP, TSO shall be entitled to consider that the specific balancing service bid is unavailable.
- 3.9. In the event that TSO, in carrying out the actions referred to in Clause 3.7 of the Rules, fails to obtain acknowledgement of the activation order from the BSP for an already activated balancing product bid, the time of termination of delivery of the balancing product shall be determined as follows:
 - 3.9.1. if TSO can prove that TSO has transmitted the activation order message electronically and/or using voice telephony, then it is considered that the BSP performed the termination of delivery during the time specified in the activation order;
 - 3.9.2. if TSO cannot prove that TSO has transmitted the activation order message electronically and/or using voice telephony, then it is considered that the BSP performed the termination of delivery during the activation end time specified in the last acknowledged activation order.
- 3.10. Upon the receipt of the activation order, the BSP is obliged to execute the dispatcher's command in accordance with the activation order of the dispatcher.
- 3.11. The actual volume of energy supplied as a result of activation, which is determined as the difference between the total energy consumption and/or production amount specified in the generation and/or consumption schedule of the delivery point used in supply of balancing energy, and the total volume of energy provided to or consumed from the network recorded at the delivery points used in the supply of balancing energy, shall not differ from the product of the capacity amount specified in the dispatcher's command and the difference between the time of termination and initiation of activation by more than 20% (twenty percent) within an interval of trade.

$$R_{reg} = 1 - \left| \frac{\sum_{DP=1}^{DP \text{ number}} E_{progn, DP} - \sum_{DP=1}^{DP \text{ number}} E_{metered, DP}}{P_{reg} \cdot T_{activ}} \right| \cdot 100, \text{ where}$$

R_{reg} is the error of the actual volume of energy delivered as a result of activation, %;

DP_{number} is the total number of delivery points for the ReU;

DP is the serial number identifying the delivery point;

$E_{progn, DP}$ is the scheduled amount of electricity consumption/generation at the delivery point, MWh;

$E_{metered, DP}$ is the amount of energy consumed from the network and/or transmitted to the network recorded at the delivery point, MWh;

P_{reg} is the amount of power in MW specified in the activation order;

T_{activ} is the difference between the stop and start time specified in the activation order in hours, h.

4. SUBMISSION OF THE GENERATION SCHEDULE AND CONSUMPTION SCHEDULE (BASELINE)

- 4.1. If the BSP uses a ReU, which is not a dispatched generating unit (as defined in the Network Code, hereinafter – DGU), in the provision of the balancing service, the BSP submits a generation schedule and/or consumption schedule(baseline) for each ReU delivery point. The schedule shall indicate the amount of electricity consumption and/or generation in MWh with an accuracy of no lower than 0.1 MWh and at least the resolution of the interval of trade. The schedule for the next day shall be submitted by 16:00 EET of the current day, using Universal Coordinated Time (hereinafter – UTC) for the time reference in the schedule.
- 4.2. BSP shall submit updates to the consumption and generation schedule referred to in Clause 4.1. of the Rules no later than 45 minutes before the corresponding interval of trade.
- 4.3. BSP shall submit the consumption and generation schedule referred to in Clause 4.1. of the Rules and updates of the schedule electronically in accordance with the Technical and Data Exchange Requirements.

- 4.4. The BSPs consumption and generation schedule for a ReU may not differ from the amount of electricity metered at the delivery point for all the ReU's delivery points in total during intervals of trade in which the activation of the BSPs bids has not been carried out, by more than 15% in absolute values during the average calendar day period.

$$R_{progn} = \frac{\sum_{MTU n.akt.=1}^{MTU skaits n.akt.} \left(\left| \frac{\sum_{DP=1}^{DP number} (E_{progn,DP} - E_{metered,DP})}{\sum_{DP=1}^{DP skaits} E_{metered,DP}} \right| \cdot 100 \right)}{MTU n.akt.}, \text{ where}$$

R_{progn} – ReU consumption and generation schedule error, %;

$MTU_{Number \text{ not.act.}}$ is the number of intervals of trade in which activation was not performed;

$MTU_{Number \text{ not.act}}$ is the interval of trade in which no activation has been carried out, an identifying sequence number;

DP_{number} is the total number of delivery points for the ReU;

DP is the serial number identifying the delivery point;

$E_{progn, DP}$ is the scheduled amount of energy consumption/generation at the delivery point, MWh;

$E_{metered, DP}$ is the amount of energy consumed from the network and/or transferred to the network metered at the delivery point, MWh.

5. SUBMISSION OF CONTROL METERING DATA

- 5.1. The BSP must ensure the submission of the data of the produced/consumed electricity metered at each delivery point to the TSO for each delivery point that is used for the provision of the balancing service in accordance with these Rules and the Technical and Data Exchange Requirements.
- 5.2. The BSP shall ensure the submission of aggregated real-time active power measurements to the TSO for those power generating modules that meet the DGU definition.
- 5.3. The energy control metering data of demand units shall be submitted electronically for each 15 minute period of interval of trade within 10 minutes after the end of the respective 15-minute period, showing the electricity consumption for each minute of the quarter-hour in MWh with a resolution of 0.000001 MWh. If the control meter does not provide it, indicate the maximum resolution available.
- 5.4. Energy control metering data of power generating modules that do not meet the definition of a DGU shall be submitted by the BSP to TSO, in accordance with the Technical and Data Exchange Requirements, in one of the following ways:
- 5.4.1. in the form of aggregated real-time active power measurements;
- 5.4.2. for each 15 minutes period of interval of trade within 10 minutes after the end of the respective 15 minutes period, showing the energy consumption for each minute of the quarter-hour in MWh with a resolution of 0.000001 MWh. If the control meter does not provide it, indicate the maximum resolution available.
- 5.5. In the provision of energy control metering data in accordance with Clause 5.3 and 5.4.2 of these Rules, the control metering devices installed in the BSP must comply with the Technical and Data Exchange Requirements.
- 5.6. TSO evaluates the compliance of the BSP control metering data according to their concordance with the commercial metering data based on the accuracy classes of the metering devices and the position of the control metering device in relation to the electricity meter for the power commercial accounting.
- 5.7. Inconsistency of the control metering data with the commercial metering data, considering the accuracy class of the metering devices and the position of the control metering device in relation to the electricity meter for the power commercial accounting, is considered a violation of the Technical and Data Exchange Requirements.

6. REPORTING ON RESERVE PROVIDING GROUP

- 6.1. BSP, of which ReU is a reserve providing group, submits a report to TSO, including the following information:
- 6.1.1. for each interval of trade:
- 6.1.1.1. total consumption/generation schedule of all ReU delivery points, MWh;
- 6.1.1.2. the total amount of energy actually consumed from the network and/or transmitted to the network at all ReU delivery points, MWh.
- 6.1.2. for each interval of trade in which the activation was carried out:
- 6.1.2.1. list of delivery points used in the activation;
- 6.1.2.2. the amount of balancing energy supplied at each delivery point, according to the control metering data and the consumption/generation schedule, MWh;
- 6.1.2.3. total consumption/generation schedule for all ReU delivery points used in activation, MWh;
- 6.1.2.4. the total amount of energy actually consumed from the network and/or transferred to the network at all ReU delivery points that were used in the activation, MWh;
- 6.1.2.5. the total actual amount of balancing energy supplied (in the calculation only using the data of the delivery points where activation was carried out), MWh;
- 6.1.2.6. activation error (calculated according to Clause 3.11 of these Rules, using only the data of delivery points where activation was performed in the calculation), %;
- 6.1.3. for each interval of trade in which activation has not been performed for those ReUs that are an aggregation of demand units, the error of the consumption schedule (baseline), calculated for one interval of trade in accordance with Clause 4.4 of these Rules, %;
- 6.1.4. for each calendar day, for those ReUs that are an aggregation of demand units, the error of the consumption schedule (baseline) is calculated in accordance with Clause 4.4 of these Rules, using data on all intervals of trade of the calendar day, in which activation was not performed, %.
- 6.2. BSP shall submit the report referred to in Clause 6.1 of these Rules by the second working day of the week for the previous calendar week by sending it to TSO's e-mail address: rps@ast.lv.
- 6.3. BSP shall coordinate the form of the report referred to in Clause 6.1 of these Rules with TSO.

7. DETERMINATION OF THE BALANCING SERVICE FEE

- 7.1. The balancing service fee for the balancing energy sold by the BSP and purchased by TSO (upward balancing) at a specific settlement period shall be determined by TSO:

$$M_{rega} = \sum_{t=1}^T (E_{regna_t} \times C_{regna_t}) + \sum_{n=1}^N (E_{regsa_n} \times C_{regsa_n}), \text{ where}$$

- M_{rega} – balancing service fee for balancing energy purchased by TSO and sold by the BSP (EUR);
- E_{regna_t} – the amount of balancing energy purchased by TSO and sold by the BSP within the framework of the balancing service, which is delivered upwards by performing the normal activation of the bid in the interval of trade t (MWh);
- C_{regna_t} – normal activation marginal price for balancing energy for upward activation in interval of trade t (EUR/MWh);

- E_{regsa_n} – the amount of energy purchased by TSO and sold by the BSP within the framework of the balancing service, which is activated by performing special activation at the time of special activation n (MWh);
- C_{regsn} – activated bid price equal to the price set in BSP bid at the time of special activation n (EUR/MWh);
- T – the number of intervals of trade in the relevant settlement period;
- t – interval of trade;
- N – the number of special activation times in the relevant settlement period;
- n – activation of the special balancing product bid.

- 7.2. The balancing service fee for the balancing energy sold by the BSP and purchased by TSO (downward balancing) in a specific settlement period shall be determined by TSO:

$$M_{regl} = \sum_{t=1}^T (E_{regnt_t} \times C_{regnt_t}) + \sum_{n=1}^N (E_{regsl_n} \times C_{regsn}), \text{ where}$$

- M_{regl} – balancing service fee for balancing energy sold by TSO and purchased by the BSP (EUR);
- E_{regnt_t} – the amount of balancing energy sold by TSO and purchased by the BSP within the framework of the balancing service, which is delivered downwards by performing the normal activation of the bid in the interval of trade t (MWh);
- C_{regnt_t} – normal activation marginal price for downward activation in the interval of trade t (EUR/MWh);
- E_{regsl_n} – the amount of energy sold by TSO and purchased by the BSP within the framework of the balancing service, which is activated by performing special activation at the time of special activation n (MWh).

- 7.3. The amount of energy purchased or sold by TSO under the balancing service during a given interval of trade delivered during normal activation (E_{regna_t}, E_{regnt_t}) is defined as follows:

$$E_{regna_t}, E_{regnt_t} = \sum_{a=1}^A (P_{regna} \times h_{regna}), \text{ where}$$

- P_{regna} – amount of bid capacity (MW) set in the normal activation dispatcher activation order for the activated balancing product (MW);
- h_{regna} – normal activation delivery period in hours (from activation start time to activation termination time) (h);
- a – specific activation;
- A – number of activations in the interval of trade t .

- 7.4. The amount of energy purchased or sold by TSO within the scope of a specific bid, which is delivered during special activation (E_{regsa_n}, E_{regsl_n}) is defined as follows:

$$E_{regsa_n}, E_{regsl_n} = P_{regsa} \times h_{regna}, \text{ where}$$

- P_{regsa} – the amount of power of the activated balancing product bid set in the dispatcher's activation order for the activation n of the special balancing product bid (MW)
- h_{regna} – special balancing product bid activation n delivery period in hours (from activation start time to activation termination time) (h).

- 7.5. The bid price of an activated balancing product for the bid that has been activated during normal activation (C_{regnt_t}) TSO shall determine in accordance with the procedure specified in the Market Rules by applying the marginal price methodology:

- 7.5.1. for bids of a balancing product that are activated upwards (upward balancing), the marginal price shall be set equal to the highest price of the bid activated upwards in the interval of trade t ;

- 7.5.2. for bids of a balancing product that are activated downwards (downward balancing), the marginal price shall be set equal to the lowest price of the bid activated downwards in the interval of trade t .
- 7.6. TSO determines the bid price of an activated balancing product activated by a special activation (C_{regs_n}) in accordance with the procedure set out in the Market Rules by applying the price set in the BSP balancing product bid.

8. APPROVAL OF THE VOLUME OF THE BALANCING SERVICE PROVIDED BY THE BSP

- 8.1. Within two working days after the activation of the balancing product bid, TSO shall prepare and send the BSP a report on the used balancing energy (MWh), applied price (EUR/MWh) and amount (EUR) for each interval of trade, indicating separately:
- 8.1.1. Balancing products supplied by upward activation;
- 8.1.2. Balancing products supplied by downward activation.
- 8.2. BSP and TSO shall mutually approve this report electronically within one working day from sending the report referred to in Clause 8.1 of these Rules to the BSP.

9. ASSESSMENT OF ReU COMPLIENCY AND ISSUE OF PREQUALIFICATION DECLARATION

- 9.1. Evaluation of ReU technical compliance and issue of prequalification declaration is carried out in accordance with the procedures specified in the Technical and Data Exchange Requirements.
- 9.2. TSO may request to re-evaluate the compliance of those ReUs that have a valid prequalification declaration, without receiving an application for the use of ReUs for the provision of balancing services from the BSP, in cases where:
- 9.2.1. ReU operation does not comply with the Rules and Technical and Data Exchange Requirements;
- 9.2.2. changes have been made to the Technical and Data Exchange Requirements;
- 9.2.3. modifications have been made to ReU's equipment or facilities that may affect ReU's ability to provide a balancing service.
- 9.3. In the case of requesting a repeated evaluation of technical compliance, the TSO shall notify the BSP in writing, using the contact information specified in the Agreement.
- 9.4. Re-evaluation of technical compliance is carried out in accordance with the procedures specified in the Technical and Data Exchange Requirements; in such cases the BSP shall provide TSO with everything necessary for its performance.
- 9.5. Each of the parties (BSP and TSO) shall bear the costs incurred during the evaluation of technical compliance.

ANNEXES

1. Annex – Characteristics of the balancing product – mFRR standard product (60 min.)
2. Annex – Characteristics of the balancing product – mFRR standard product (15 min.)

Annex 1

Rules for the Provision of the Balancing Service under the System Ancillary Service Agreement
(approved by JSC "Augstsprieguma tīkls" Board Decision No. 149/56/2022 of 17 August 2022)

Characteristics of the balancing product – mFRR standard product (60 min.)

Parameter	Characteristics of the balancing product
Preparation period	TSO and the BSP agree on this by phone or through electronic messages, indicating the start time of activation, taking into account the preparation period.
Ramping period	Not exceeding 15 min.
Full activation time	Not exceeding 15 min.
Minimum and maximum quantity	MIN = 1 MW; MAX = no limit; step – 1 MW
Deactivation Period	Not exceeding 15 min.
Price calculation method	For normal activation: marginal price; For special activation: the price specified in the balancing product bid
Minimum and maximum price	MIN not specified; MAX = 5000 EUR/MWh Accuracy 0.01 EUR/MWh
Divisibility	Defined by BSP (divisible or indivisible)
Minimum and maximum duration of delivery period	MIN = 1 min.; MAX = 60 min. (but no later than until the end of the interval of trade). Resolution 1 minute
Validity period	60 min.
Mode of activation	Manual
The minimum time period between the end of the deactivation period and the next activation	Not determined
Linking of bids	Linking of bids in time is not allowed. Bids can be linked in power within one interval of trade, i.e., bid 2 can only be activated if bid 1 is activated. If bid 1 is not activated, bid 2 is not available. Linking the bids of balancing energy is one-directional.
Determining the settlement quantity: the required delivery start and end time.	Block product between the required start and the end time of the delivery in the activation order. Energy is determined to the nearest 0.001 MWh
Balancing energy market gate closure time	T-45 min.
Firmness of the bids	All bids received are firm (fixed). BSP is obliged to inform TSO if unforeseen technical restrictions arise in the fulfilment of bids after the closing time of the balancing energy market, but no later than 5 minutes before the submission of the activation order.

Annex 2

Rules for the Provision of the Balancing Service under the System Ancillary Service Agreement (approved by JSC "Augstsprieguma tīkls" Board Decision No. 149/56/2022 of 17 August 2022)

Characteristics of the balancing product – mFRR standard product (15 min.) for operation with MARI¹

Parameter	Characteristics of the balancing product
Mode of activation	Manual. Electronic messages are used for communication of activation orders. Voice telephony can be used, in the case that electronic message exchange is not available.
Activation type	Scheduled (SA) or direct (DA) activation. Whereas direct could also be activated for scheduled, but not vice versa
Direction	For upward or downward activation
Full activation time	Not exceeding 12.5 min.
Minimum and maximum quantity	MIN = 1 MW; MAX = 9999 MW; step – 1 MW
Minimum delivery period	5 minutes
Price	in €/MWh, with a resolution of up to 0.01 €/MWh, MAX price has not been determined
Validity period	A scheduled activation can take place at the point of scheduled activation only (T-7.5). A direct activation can take place at any time during the 15 minutes after the point of scheduled activation.
Location	Bidding zone, indicating the ReU that will be used in the fulfilment of the bid.
Divisibility	BSPs are allowed to submit divisible bids with an activation granularity of 1 MW. BSP can submit indivisible or partially divisible bids based on the ReU prequalification. The maximum amount of an indivisible bid cannot be greater than the technical minimum of ReU electricity production or consumption.
Linking of bids	Types: technical and economic linking of bids, in accordance with the rules of the Baltic balancing market for work with MARI ²
Preparation time	Not exceeding 7 minutes.
Ramping period	Not exceeding 12 min.
Deactivation Period	Not exceeding 10 min.
Maximum delivery period	No more than 20 minutes for SA bids, no more than 35 minutes for DA bids.
The minimum time period between the end of the deactivation period and the next activation	Not determined
Firmness of the bids	All bids received are fixed. BSP is obliged to inform TSO in case unforeseen technical issues arise after the gate closure time of the balancing energy market, but no later than 5 minutes before the submission of the activation order.

¹ The balancing product will be used after joining of the TSOs of the Baltic states to the platform MARI.

² Available on the AST website: “Baltic Balancing Market Rules for Operation with European mFRR Balancing Energy Platform MARI”.