

RULES FOR SUSPENSION AND RESTORATION OF MARKET ACTIVITIES



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Pursuant to Article 109, paragraph 1, point 46b) and 174a, paragraph 3 of the Energy Law ("Official Gazette of RS", no. 145/14, 95/18 – other law, 40/21, 35/23 – other law and 62/23) and Article 28, paragraph 1, point 29 of the Statute of Joint Stock Company "Elektromreža Srbije" Belgrade, on 134th extraordinary session, held on 28 December, 2023, the Assembly of the Joint Stock Company "Elektromreža Srbije" issued the following

RULES

FOR SUSPENSION AND RESTORATION OF MARKET ACTIVITIES

1 INTRODUCTORY PROVISIONS

1.1. THE SUBJECT OF THE RULES

- 1.1.1 The rules for suspension and restoration of market activities (hereinafter referred to as the Rules) specify the responsibilities of electricity transmission system operators, electricity distribution system operators, closed distribution system operators and other participants in the electricity market in the process of suspension of market activities in the event that:
 - 1) the transmission system is in a state of disintegration;
 - 2) the transmission system operator has exhausted all the possibilities offered by the electricity market, and the continuation of market activities in a disrupted operation would hinder the removal of disturbances;
 - 3) the continuation of market activities would significantly reduce the effectiveness of the process of re-establishing normal or compromised normal operation of the transmission system;
 - 4) information and communication systems necessary for the execution of market activities are not available.
- 1.1.2 These Rules also regulate the procedure for re-establishing suspended market activities carried out by the transmission system operator in coordination with neighbouring transmission system operators, distribution system operators, closed distribution system operators and electricity market operators.

1.2 GENERAL PROVISIONS

1.2.1 In accordance with these rules, the transmission system operator shall be responsible for ensuring the continued operation of the electricity market, during disrupted operation, transmission system blackout and its re-establishment, as well as in cases of unavailability of information and communication systems necessary for the execution of market activities. The suspension of market activities shall represent the last measure applied by the transmission system operator in the mentioned states of the transmission system.



- 1.2.2 These Rules shall be applied in accordance with valid regulations in the field of power engineering, including the rules by which the electricity transmission system operator regulates the transmission system operation, the electricity market operation, the allocation of transmission capacities between the bidding zones and the publication of electricity market fundamental data.
- 1.2.3 These Rules shall be applied with respect to the transmission system defence plans and the transmission system establishment plan made by the transmission system operator, ensuring the maximum efficiency of re-establishing normal operation after disturbances that may occur in the power system.



2 GLOSSARY

2.1 **DEFINITIONS**

Control block — The control block is a part of the synchronous area, physically demarcated by points of measurement at interconnecting transmission lines to other control blocks. It consists of one or more control areas, managed by one or more transmission system operators.

Rules of the Interconnection operation — Rules that transmission system operators as members of the European Association of Transmission System Operators for Electricity (ENTSO-E) shall be obliged to apply based on European regulations and internal acts of this organization.

Other terms used in the Rules that are not specified in section 2.1 have the same meaning as in the Energy Law (hereinafter: the Law) and in the regulations adopted on the basis of these laws.



3 SUSPENSION OF MARKET ACTIVITIES

3.1 MARKET ACTIVITIES THAT CAN BE SUSPENDED

- 3.1.1 In accordance with the rules governing the transmission system operation, the transmission system can be in the following states:
 - 1) normal operation;
 - 2) compromised normal operation;
 - 3) disturbed operation;
 - 4) transmission system blackout;
 - 5) transmission system establishment.
- 3.1.2 The following market activities may be suspended on the electricity market in the Republic of Serbia:
 - 1) allocation and use of transmission capacities between bidding zones;
 - 2) procurement of ancillary services;
 - 3) receiving and activation of bids in the balancing mechanism;
 - 4) reporting and confirmation of daily schedule of the balancing group;
 - 5) intraday changes to daily schedule of the balancing group;
 - 6) organized day-ahead and intraday electricity market in Serbia;
 - 7) other market activities, the suspension of which is considered necessary to preserve the safe and reliable transmission system operation and its re-establishment.

3.2 SUSPENSION OF MARKET ACTIVITIES

- 3.2.1 Market activities referred to in point 3.1.2. can be suspended:
 - 1) if the transmission system is in blackout state, as assessed by the transmission system operator in accordance with the rules governing the transmission system operation;
 - 2) if the transmission system is in a state of disturbed operation in accordance with the rules governing the transmission system operation, including force majeure, and the transmission system operator has exhausted all the possibilities provided by the regulations governing the electricity market, meaning that the continuation of the market activities in the disturbed operation would hinder the elimination of the disturbance. Disruptionin the elimination of disturbance exists if the continuation of market activities would worsen at least one of the following conditions that define the state of disturbed operation in the rules governing the transmission system operation:
 - there is at least one violation of the limit values of the operating quantities of voltage and current,
 - the frequency value deviates from the specified operation for the compromised normal operation of the transmission system,
 - some of the measures foreseen in the transmission system defence plans have been activated.
 - there is unavailability of key electronic systems for managing the transmission system for more than 30 minutes;

- 3) if the continuation of market activities would significantly hinder the process of reestablishing normal operation or compromised normal operation.
- 3.2.2 Market activities referred to in point 3.1.2. may be suspended even if the information and communication systems necessary for the implementation of market activities are not available, i.e. if at least one of the following conditions is met:
 - 1) improper operation or interruption of operation of the information and telecommunication infrastructure;
 - 2) unauthorized interception and redirection of network traffic;
 - 3) appearance of malicious code on critical IT infrastructure.
- 3.2.3 When suspending market activities, the transmission system operator may fully or partially suspend its processes/procedures affected by the suspension.
- 3.2.4 In case of suspension of market activities, at the request of the transmission system operator, each participant in the electricity market shall be obliged to coordinate their activities with the sequence of activities provided by the transmission system operator.
- 3.2.5 When suspending market activities, the transmission system operator shall coordinate its activities in particular with:
 - 1) other transmission system operators in accordance with the rules on interconnection operation;
 - 2) transmission system operators of the control block and other transmission system operators with whom it has contracted mechanisms for cross-border exchange of regulation energy;
 - 3) organized electricity market operator;
 - 4) nominated electricity market operator (hereinafter: NEMO);
 - 5) a regional coordination centre in charge of coordinating the activities of transmission system operators and improving the transmission system safety and operation;
 - 6) distribution system operator and closed distribution system operator;
 - 7) coordination centres responsible for harmonizing and verifying daily schedules;
 - 8) other participants in the electricity market.
- 3.2.6 The beginning of the suspension of one or all market activities from point 3.1.2 shall be the beginning of the first subsequent settlement interval in relation to the settlement interval in which the transmission system operator informed the entities involved in the process of suspension of market activities from point 3.2.5. (relevant entities) about the suspension of one or more market activities.



- 3.2.7 Situations referred to in point 3.2.1 shall be evaluated by objectively defined parameters referred to in the point 3.2.8 of these rules, which take into account the following:
 - 1) percentage of consumption without power supply in the transmission system operator's control area, which implies:
 - the inability of a significant part of the balancing responsible parties to ensure balance (to maintain the balance of production, consumption and blocks of cross-border and internal exchange of electricity), or
 - inability of the transmission system operator to carry out the usual processes
 of organizing and administering the electricity balancing market, as well as
 activities aimed at re-establishing the normal transmission system operation;
 - 2) percentage of production outages in the regulatory area of the transmission system operator JSC EMS, which corresponds to the inability of a significant part of the balancing responsible parties to ensure balance, i.e. to maintain the balance of their production, consumption, purchase and sale of electricity (blocks of cross-border and internal exchange of electricity) in the period for which the balancing deviation is determined;
 - 3) share and geographical distribution of unavailable elements of the transmission system, which implies:
 - island operation of a significant part of the regulatory area due to which the usual process of organizing and administering the electricity balancing market is counterproductive, or
 - reducing transmission capacity between bidding zones to zero;
 - 4) impossibility of conducting market activities by the following market participants due to circumstances beyond their control:
 - balancing responsible parties,
 - participants in the balancing mechanism,
 - NEMO or other entities designated for implementing the coupling of the dayahead and intraday organized electricity market,
 - distribution system operators, i.e. closed distribution system operators connected to the transmission system;
 - 5) unavailability of tools and communication means that are necessary for:
 - implementation of the day-ahead or intraday coupling of the organized electricity market, or allocation of transmission capacities between bidding zones,
 - or engagement of automatic Frequency Restoration Reserve, aFRR and manual Frequency Restoration Reserve, m-FRR, or
 - engagement of Replacement Reserve, RR, or
 - submission of daily schedules for day-ahead and intraday nomination processes.
- 3.2.8 Objectively defined parameters are:
 - 1) the percentage of consumption outages in the EMS regulatory area;
 - 2) the percentage of production outages in the EMS regulatory area that corresponds to the inability of a significant share of the balancingresponsible parties to maintain their balance of production, consumption and blocks of cross-border and internal exchange of electricity;



- 3) share and geographical distribution of unavailable elements of the transmission system;
- 4) the percentage of balancing groups that are prevented from carrying out their market activities due to reasons beyond their control;
- 5) one or more participants in the balancing mechanism under whose jurisdiction are the balancing entities regarding the rules governing the electricity market operation, and who are unable to carry out market activities due to reasons beyond their control so that the total unavailability of the installed power of their production capacities amounts to more than 40% of the total value of installed power of all production capacities on the territory of the Republic of Serbia;
- 6) the inability of NEMO or other entities designated to implement the coupling of the day-ahead and intraday organized electricity market for reasons beyond their control, and
- 7) unavailability of tools and means of communication necessary for the execution of market activities.
- 3.2.9 If the objectively defined parameter referred to in point 3.2.8 subpoint 1) and 2) evaluates the occurrence of situations referred to in point 3.2.1, then the value of 50% shall be taken as the value of the parameter sufficient to declare that a case relevant to the suspension of certain market activities has occurred. 3.2.10. 3.2.11. 3.2.12.
- 3.2.10 If the objectively defined parameter referred to in point 3.2.8 subpoint 3) is used to assess the occurrence of situations referred to in point 3.2.1, then the result of the safety analysis of the transmission system operation in accordance with the rules governing the transmission system operation shall be taken as the value of the parameter sufficient to declare that a case relevant to the suspension of certain market activities has occurred.
- 3.2.11 If the objectively defined parameter from referred to in 3.2.8 subpoint 4) is used to assess the occurrence of situations referred to in point 3.2.1, then the value of 20% shall be taken as the value of the parameter sufficient to declare that a case relevant to the suspension of certain market activities has occurred.
- 3.2.12 In case one or more participants in the balancing mechanism under whose jurisdiction are balancing entities in the sense of the rules governing the balancing market operation, and who are unable to carry out market activities due to reasons beyond their control so that the total unavailability of the installed of the power of their production capacities amounts to more than 40% of the total value of the installed power of all production capacities on the territory of the Republic of Serbia are prevented from carrying out their market activities due to causes beyond their control, it shall be considered that the objectively defined parameter referred to in point 3.2.8 subpoint 5) has been met.
- 3.2.13 If the objectively defined parameter referred to in point 3.2.8 subpoint 7) is used to assess the occurrence of situations referred to in point 3.2.1, then the unavailability of one tool or corresponding means of communication shall be considered sufficient to declare that a case relevant for the suspension of certain market activities has occurred.
- 3.2.14 The transmission system operator can suspend market activities immediately after assessing that the objectively defined parameters have been met.
- 3.2.15 The transmission system operator evaluates objectively defined parameters in real time based on the information at their disposal.



3.2.16 Fulfilment of one or more objectively defined parameters shall not oblige the transmission system operator to suspend any market activity or to suspend certain market activities at the same time and with the same suspension duration. The implementation of the suspension shall be coordinated between the transmission system operator and the relevant entities, depending on the specific market activity.



4 RESPONSIBILITIES OF MARKET PARTICIPANTS IN CASE OF MARKET ACTIVITIES SUSPENSION

4.1 SUSPENSION OF ALLOCATION AND USE OF TRANSMISSION CAPACITIES BETWEEN BIDDING ZONES

- 4.1.1 The allocation of transmission capacities and the use of allocated transmission capacities between bidding zones may be suspended, in cases referred to in points 3.2.1 and 3.2.2, or if the suspension of the market activity of allocation and use of capacities between bidding zones has been declared in the adjacent bidding zone.
- 4.1.2 The transmission system operator may decide to suspend the allocation of transmission capacities between bidding zones at all or at individual borders of its bidding zone in case of fulfilment of the objectively defined parameters referred to in point 3.2.7.
- 4.1.3 The transmission system operator may decide to change the already allocated capacity between bidding zones, which was granted in the procedures of explicit capacity allocation, can be reduced if such a measure can help the system return to a state of normal or compromised normal operation.
- 4.1.4 In case the allocation of transmission capacities between bidding zones is suspended or the allocated right to capacity is reduced, the transmission system operator shall be obliged to inform the market participants about this without delay, in accordance with the applicable regulations and rules that govern the distribution of transmission capacities between bidding zones.
- 4.1.5 In case of reduction of the allocated transmission capacity between the bidding zones for which the market has been merged, the transmission system operator shall implement this limitation in coordination with other transmission system operators, market operators and NEMO.
- 4.1.6 In case of suspension of market activities referred to in section 4.1, the transmission system operator shall pay a fee to market participants determined in accordance with the rules governing the allocation of transmission capacities between bidding zones

4.2 SUSPENSION OF PROCUREMENT OF ANCILLARY SERVICES – PROCUREMENT OF SECONDARY AND TERTIARY RESERVE

- 4.2.1 The procurement of secondary and tertiary reserves for ensuring the system service of secondary and tertiary regulation, carried out in accordance with the rules governing the operation of the electricity market, may be suspended in the cases referred to in point 3.2.1 and 3.2.2.
- 4.2.2 In case the procurement of s-FRR and m-FRR is suspended, the transmission system operator shall be obliged to inform, without delay, the market participants with the contracted the provision of ancillary services.
- 4.2.3 Market participants who have concluded the contract on the provision of anciliary services with the transmission system operator shall be obliged to make all their balancing entities, defined in accordance with the rules governing the transmission system operation and the rules governing the electricity market operation, available to the transmission system operator.
- 4.2.4 In case of suspension of market activity, when the transmission system operator has suspended the procurement of a-FRR and reserve-FRR ancillary services, the transmission system operator shall have no financial liabilities towards providers of anciliary services for the reserve that has not been leased until the moment of suspension



4.3 SUSPENSION OF RECEIVING AND ACTIVATION OF BIDS IN BALANCING MECHANISM

- 4.3.1 The submittion and activation of bids in the balancing mechanism, carried out in accordance with the rules governing the electricity market operation, may be suspended in the cases referred to in points 3.2.1 and 3.2.2.
- 4.3.2 In case the submittion and activation of bids in the balancing mechanism is suspended, the transmission system operator shall be obliged to inform without delay the market participants with whom they have an agreement on participation in the balancing mechanism.
- 4.3.3 In case of suspension of submittion and activation of bids in the balancing mechanism, participants who have concluded a contract on participation in the balancing mechanism with the transmission system operator shall be obliged to make all their balancing entities, defined in accordance with the rules governing the transmission system operation and the rules governing the electricity market operation, available to the transmission system operator.
- 4.3.4 If the transmission system operator, due to the suspension of market activities in accordance with these Rules, engages balancing entities in accordance with point 4.3.3, the transmission system operator shall be obliged to calculate the value of the total engaged balancing energy in accordance with points 4.3.5 and 4.3.6.
- 4.3.5 In case of suspension of the market activity of submittion and activation of bids in the balancing mechanism in accordance with point 4.3.1, the price for engagement of balancing entities upward and downward shall be the same and equal to the price of electricity on the organized market in the same time interval.
- 4.3.6 In case it is not possible to determine the price of electricity on the organized market, the price for engaging the balancing entities upward and downward shall be equal to the average price of electricity on the organized market in the same time interval rounded to two decimal places for the period of five previous connected days in which there was no suspension of market activities.

4.4 SUSPENSION OF SUBMITTION AND CONFIRMATION OF DAILY SCHEDULE AND INTRADAY CHANGES TO DAILY SCHEDULE OF THE BALANCING GROUP

- 4.4.1 Submittion and confirmation of the daily schedule, i.e. intraday changes to the daily schedule of the balancing group, carried out in accordance with the rules that regulate the transmission system operation, may be suspended in the cases referred to in points 3.2.1 and 3.2.2.
- 4.4.2 In case the application and confirmation of the daily schedule and the intraday change of the daily schedule of the balancing group are suspended, the transmission system operator shall be obliged to inform without delay the balancing responsible parties and other transmission system operators in accordance with the rules on the operation of the interconnection and coordination centres responsible for verification of daily schedule.
- 4.4.3 In case of suspension of submitting and confirmation of the daily schedule and intraday changes to the daily schedule of the balancing group, the balancing responsible parties shall be obliged to correct their daily schedules in accordance with the request of the transmission system operator.



- 4.4.4 In case there is a need to change already confirmed electricity exchange blocks, the change of bidding zones in the process of daily schedule reporting or intraday changes to the daily schedule, the transmission system operator shall coordinate this activity with the neighbouring transmission system operator and coordination centres responsible for verification of daily schedules.
- 4.4.5 The market participant who is the balance responsible party in terms of the rules on the electricity market operation shall be responsible for the deviation of the balancing group that occurs during the period of suspension of market activities.
- 4.4.6 During the period of suspension of market activities, the settlement price shall be equal to the weighted price of the engaged balancing energy from the balancing entities referred to in points
 4.3.5 and 4.3.6 and engaged balancing energy from the neighbouring transmission system operator and the European balancing electricity market.
- 4.4.7 During the suspension of market activities, all deviations of the balance responsible party shall be considered as acceptable deviations of the balancing group in accordance with the rules governing the electricity market operation.

4.5 SUSPENSION OF ORGANIZED DAY-AHEAD AND INTRADAY ELECTRICITY MARKET IN SERBIA

- 4.5.1 At the request of the transmission system operator, the operator of the organized electricity market, in cases referred to in points 3.2.1 and 3.2.2, shall suspend the operation of the organized day-ahead and/or intraday electricity market in Serbia.
- 4.5.2 In case the organized day-ahead and intraday electricity market is suspended, the operator of the organized electricity market shall inform the participants of the organized electricity market about this in accordance with the acts governing the operation of the organized electricity market.
- 4.5.3 In case of suspension of the organized day-ahead and/or intraday electricity market in Serbia, the operator of the organized electricity market shall be obliged to correct its daily schedule in accordance with the request of the transmission system operator.
- 4.5.4 In case the suspension of the organized day-ahead and/or intraday electricity market also implies the suspension of activities based on the coupling of the electricity market, the transmission system operator shall coordinate activities with neighbouring transmission system operators, the operator of the organized electricity market and NEMO.



5 PROCEDURE FOR RESTORATION OF MARKET ACTIVITIES

- 5.1. The transmission system operator shall implement the procedure for re-establishing the suspended market activity in coordination with the relevant entities from point 3.2.5.
- 5.2. The transmission system operator shall initiate market activities if the following conditions are met:
 - 1) that the reasons that led to the suspension of market activities have been eliminated;
 - 2) that at a given moment there is no other basis for the suspension of market activities;
 - 3) that the transmission system operator has timely informed all subjects referred to in point 3.2.5 of the Rules about the start of the activity, in the manner specified by chapter 6 of these rules (Notification).
- 5.3. If several market activities are suspended, the order of reinstitution shall be determined by the transmission system operator in coordination with the relevant entities referred to in point 3.2.5.
- 5.4. The restoration sequence must ensure that the transition from the state of suspension to the state of normal performance of market activities is without jeopardizing the transmission system operation.
- 5.5. When reinstating market activities, the transmission system operator shall take into account the usual time flow of market activities and the procedures that take place every day at the scheduled time.
- 5.6. The transmission system operator, in coordination with neighbouring transmission system operators, shall initiate the procedure for the re-establishment of suspended market activities in the cases referred to in points 3.2.1 and 3.2.2 if the conditions from point 5.2 of these Rules are met.
- 5.7. The operator of the organized electricity market, i.e. NEMO, in coordination with the transmission system operator and other entities from point 3.2.5, shall initiate the restoration of the market activities, that is, day-ahead and intaraday coupling, as soon as the transmission system operator informs them that it has restoreed the suspended market activities.
- 5.8. During the restoration, and immediately before allocation and use of transmission capacities between bidding zones, the transmission system operator shall recalculate the values of transmission capacities between bidding zones for the purposes of implementing the procedure for allocation transmission capacities between bidding zones, for each time interval, by:
 - 1) using the latest available transmission capacity values obtained from regional coordination centres, or
 - 2) initiating the procedure for determining the available capacities in accordance with the rules for the allocation of transmission capacities between bidding zones, or
 - determining, in cooperation with neighbouring transmission system operators, transmission capacities between bidding zones according to the actual state of the grid.
- 5.9. After reinstitution and establishing the normal functioning of market activities, NEMO shall conduct the market coupling at the borders between bidding zones, in accordance with point 5.8.
- 5.10. The transmission system operator shall inform the relevant subjects referred to in point 3.2.5 on the time of resumption of market activity.

5.11. The moment of resuming market activities referred to in point 3.1.2 shall be the beginning of the first subsequent settlement interval in relation to the settlement interval in which the transmission system operator informed the entities involved in the process of restarting market activities referred to in point 3.1.2.





6 NOTIFICATION

- 6.1. The transmission system operator shall be obliged to inform the entities involved in the process of suspension when suspending and restorating market activities referred to in point 3.2.5 in a transparent and non-discriminatory manner.
- 6.2. Notification between the transmission system operator and entities involved in the process of suspension and restoration of market activities shall take place via e-mail, telephone or the transmission system operator's website.
- 63. The transmission system operator shall inform the subjects referred to in point 3.2.5 about the following:
 - 1) the beginning and the reason for the suspension of certain market activities;
 - 2) the course of the restoration process and the best estimate of the moment of the restart of market activities:
 - 3) the best estimate, and subsequently, the time of reinstitution of suspended market activities;
 - 4) availability of information and communication systems necessary for market activities;

If necessary, the transmission system operator shall have the right to request from the subjects referred to in point 3.2.5 the information important for understanding the operational situation that affects the suspension and restoration of market activities.

- 6.4. The transmission system operator shall promptly update the notifications on the suspension and restoration of market activity and inform the entities affected by the suspension and restoration of market activity about any change, without delay.
- 6.5. The transmission system operator shall prepare the report on the activities carried out in the process of suspension and restoration of market activities and publish it on its website within 30 days from the date of restoration of market activities.
- 6.6. The transmission system operator shall submit the report on the activities carried out in the process of suspending and restoration of market activities to the Energy Agency of the Republic of Serbia within 8 days from the date of its publication.



7 FINAL PROVISIONS

Upon obtaining the consent of the Energy Agency of the Republic of Serbia, these rules shall be published on the website of JSC EMS Belgrade and shall enter into force on the eighth day from the date of publication.

Stamp and signature

CHAIRMAN OF THE ASSEMBLY Milun Trivunac, MSc in Economics

JSC EMS BELGRADE ASSEMBLY Reg. code: 1 4 0

Number: 000-00-ROU-26/2023-002

Belgrade, 28/12/2023