

First amendment of the Methodology for the regional sizing of reserve capacity

in accordance with Article 37(1)(j) of the Regulation (EU) 2019/943
of the European Parliament and of the Council of 5 June 2019
on the internal market for electricity

25 March 2026

Purpose:	<input type="checkbox"/> methodology draft	<input type="checkbox"/> for public consultation
	<input checked="" type="checkbox"/> for ACER approval	<input type="checkbox"/> for final publication
Status:	<input type="checkbox"/> draft	<input checked="" type="checkbox"/> final
TSO approval:	<input type="checkbox"/> for approval	<input checked="" type="checkbox"/> approved

ENTSO-E, taking into account the following:

Whereas

- (1) This amendment proposal provides an amendment to Annex I of ACER Decision 12-2023 of 19 July 2023 on the Methodology for Regional Sizing of Reserve Capacity (hereafter referred to as the “RCC Sizing Methodology”) in line with Article 3(2) of the RCC Sizing Methodology.
- (2) Following Article 3(2) of the RCC Sizing Methodology, the relevant TSOs (TSOs of the SOR), supported by relevant RCC(s), shall determine in a coordinated manner the parameters referred to in the RCC Sizing methodology. Following this coordination ENTSO-E shall develop and submit an amendment to the RCC Sizing Methodology in accordance with Article 27 of the Regulation (EU) 2019/943 on the internal market for electricity (hereafter referred to as “Electricity Regulation”), proposing the parameters values included in an Annex. This amendment complements the RCC Sizing Methodology approved by ACER Decision 12/2023 and shall be read in conjunction with that Decision. Therefore, this proposal for amendment includes per SOR the definition of:
 - a. the time period considered for the historical records related to in Article 4(4)(a) of the RCC Sizing Methodology; and
 - b. the levels X, Y included in Article 4(4) of the RCC Sizing Methodology.
- (3) The parameters regarding the time-period considered for the historical records are harmonised to 1 year for all SORs.
- (4) The parameters regarding the levels X and Y vary between SORs, with X and Y levels between 99.50% and 100%. For each SOR, the choice of parameters is affected by different factors, such as the size of the SOR, reflection of the preferences of the TSOs of a particular SOR, or specific operational characteristics of the SOR.
- (5) This amendment proposal also proposes adjusting the implementation timeline under Article 7(1) of the RCC Sizing Methodology as approved by ACER Decision 12-2023, considering that a fixed deadline for implementing the RCC subtask “Short-term assessment of availability of sharing amounts” is not suitable in light of the preconditions for implementing this task. Namely, the task depends on the conclusion of sharing agreements between LFC blocks in accordance with Article 157(2)(j) and (k) of Regulation (EU) 2017/1485 establishing a guideline on system operation (hereafter referred to as “SOGL”). These sharing agreements can be implemented at the discretion of TSOs of the concerned LFC blocks, meaning that they are characterised by differing implementation timelines. To reflect this variety in the provisions on implementation, an amendment of Article 7(1) is required.
- (6) This amendment proposal also takes into account feedback received during the public consultation period and feedback received from ACER and the Regulatory Authorities.

SUBMITS THE FOLLOWING PROPOSAL FOR AMENDMENT OF THE METHODOLOGY FOR THE REGIONAL SIZING OF RESERVE CAPACITY TO ACER

Article 1

Definition of the time period considered for the historical records related to in Article 4(4)(a) of the RCC Sizing Methodology

A new Annex I defining per SOR the time period considered for the historical records related to in Article 4(4)(a) of the RCC Sizing Methodology shall be added and read accordingly:

« Annex I: Definition of the time period considered for the historical records related to in Article 4(4)(a) of the RCC Sizing Methodology

1) The time period considered per SOR for the historical records referred to in Article 4(4)(a) of this Methodology:

Baltic SOR	1 year
Nordic SOR	1 year
CE SOR	1 year
SEE SOR	1 year
SWE SOR	1 year

2) If the relevant TSOs deem it necessary to apply different time periods per SOR, they shall determine the new time periods in a coordinated manner, supported by the relevant RCC(s). Following this coordination, ENTSO-E shall develop and submit an amendment to this methodology in accordance with Article 27 of the Electricity Regulation. »

Article 2

Definition of the levels X, Y included in Article 4(4) of the RCC Sizing Methodology

A new Annex II defining per SOR the levels X, Y included in Article 4(4) of the RCC Sizing Methodology shall be added and read accordingly:

« Annex II: Definition of the levels X, Y included in Article 4(4) of the RCC Sizing Methodology

1) The levels X, Y included in Article 4(4) of this Methodology shall be as follows:

(1) Baltic SOR

- a. X shall be 99.90%
- b. Y shall be 99.90%

(2) Nordic SOR:

- a. X shall be 99.5%
- b. Y shall be 99.5%

(3) CE SOR:

- a. X shall be 100%

b. Y shall be 100%

(4) SEE SOR:

a. X shall be 99.99%

b. Y shall be 99.99%

(5) SWE SOR:

a. X shall be 99.99%

b. Y shall be 99.99%

2) If the relevant TSOs deem it necessary to apply different values of X, Y per SOR, they shall determine the new values in a coordinated manner, supported by the relevant RCC(s). Following this coordination, ENTSO-E shall develop and submit an amendment to this methodology in accordance with Article 27 of the Electricity Regulation. »

Article 3

Amendments to Article 1 of the Methodology for the Regional Sizing of Reserve Capacity

1. Article 1, paragraph 3 of the Methodology for the Regional Sizing of Reserve Capacity shall be replaced with the following text:

«The RCC task ‘regional sizing of reserve capacity’ is without prejudice to the determination of required reserve capacity pursuant to dimensioning rules as referred in Article 157 of the SO Regulation performed on LFC block level by the respective TSO(s) according to Article 6(7) of the Electricity Regulation and the provisions of Article 152(1) of the SO Regulation. »

2. Article 1, paragraph 4 of the Methodology for the Regional Sizing of Reserve Capacity shall be replaced with the following text:

«The RCC task ‘regional sizing of reserve capacity’ considers only FRR (aFRR and mFRR). »

Article 4

Amendments to Article 4 of the Methodology for the Regional Sizing of Reserve Capacity

1. Article 4, paragraph 2 a.ii of the Methodology for the Regional Sizing of Reserve Capacity shall be replaced with the following text:

« ii. the positive reserve capacity required by the probabilistic approach following Paragraph 5 of this Article. »

2. Article 4, paragraph 2 b.ii of the Methodology for the Regional Sizing of Reserve Capacity

shall be replaced with the following text:

« ii. the negative reserve capacity required by the probabilistic approach following Paragraph 5 of this Article. »

3. Article 4 of the Methodology for the Regional Sizing of Reserve Capacity shall be supplemented with an additional paragraph 4, as follows:

«Each RCC, in close coordination with the TSOs of the SOR, shall define a geographical delineation within the competent SOR for the application of this Article. The delineation shall be limited to the LFC block, LFC area or the bidding zone, whichever the RCC considers most appropriate for the purpose of this methodology and shall take into account, where relevant, geographical and network-related limitations that may affect the sharing of reserves among LFC blocks, in line with operational security limits. »

3. Article 4, paragraph 4 a. and 4 b. of the Methodology for the Regional Sizing of Reserve Capacity shall be replaced with the following text:

« 5. To determine the reserve capacity at SOR level required to respect the FRCE target parameters in Article 128 of the SO Regulation, a probabilistic approach shall be applied additionally.

a. The TSOs of the relevant SOR shall provide to the relevant RCC the imbalance data time series within the geographical delineation defined pursuant to paragraph (4). The sampling of those time series shall be 15 min. The time period considered for those historical records shall be representative and include at least one full year period ending not earlier than six months before the calculation date. The time period considered shall be the same for all imbalance time series within the geographical delineation defined pursuant to paragraph (4) within the relevant SOR and included in this methodology, following the process described in Article 3(2).

b. Each RCC shall sum up per sampling time the imbalance time series within the geographical delineation defined pursuant to paragraph (4) of the relevant SOR received under point (a) without separating positive and negative imbalances. »

4. Article 4, paragraph 5 of the Methodology for the Regional Sizing of Reserve Capacity shall be replaced with the following text:

« 6. Each RCC shall calculate the summed up reserve capacity requirements of the relevant SOR. Therefore, the RCC shall collect the reserve capacity requirements per geographical delineation defined pursuant to paragraph (4) of the relevant SOR resulting from the dimensioning process pursuant to dimensioning rules as referred in Article 157 of the SO Regulation after including sharing amounts per direction and sum them up per direction. »

5. Article 4, paragraph 6 a. and 6 a.i of the Methodology for the Regional Sizing of Reserve

Capacity shall be replaced with the following text:

« 7. Each RCC shall then compare the summed up reserve capacity requirements per geographical delineation defined pursuant to paragraph (4) of the relevant SOR per direction with the determined minimum amount of required reserve capacity at SOR level per direction following the provisions of Paragraph 2.

a. If the summed up reserve capacity requirement of the relevant SOR is less than or equal to the regional sized reserve capacity of the relevant SOR for at least one direction, the RCC shall analyse this shortage in reserve capacity on the SOR level and provide recommendations towards the relevant TSOs with possible improvements:

i. The RCC shall recommend to the TSOs of the SOR to reduce the considered sharing amount(s) to ensure sufficiently available reserve capacity on regional level. If this does not lead to sufficiently available reserve capacity on SOR level, the RCC may additionally recommend to the TSOs of the SOR to review their dimensioning rules as referred in Articles 127 and 157 of the SO Regulation in a coordinated way. »

6. Article 4, paragraph 8 of the Methodology for the Regional Sizing of Reserve Capacity shall be replaced with the following text:

« 9. The RCC shall assess the values X and Y applied in Paragraphs (5.c) and (5.d) of this Article on a yearly basis. Therefore, it shall take into account the actual amount of netted imbalances using published data according to the Implementation Framework for a European platform for the imbalance netting process in accordance with Article 22 of the EB Regulation for the relevant SOR, where applicable, to determine if the applied security level represent sufficiently real netting possibilities. The security level to be applied under Paragraphs (5.c) and (5.d) of this Article shall be adapted accordingly following the assessment of all TSOs of the relevant SOR and the process described in Article 3(2). »

Article 5

Amendments to Article 5 of the Methodology for the Regional Sizing of Reserve Capacity

1. Article 5, paragraph 4 of the Methodology for the Regional Sizing of Reserve Capacity shall be replaced with the following text:

« For the assessment of the availability of sufficient reserve capacity following Paragraph 3(a) the relevant TSOs of each SOR involved in a sharing agreement shall provide to the respective RCC the agreed sharing amount per type of reserves and direction, their locally dimensioned reserve capacity for each type of reserves pursuant to dimensioning rules as referred in Articles 127, 152(1) and 157 of the SO Regulation as soon the information becomes available. The RCC shall then assess the simultaneously expected demands for reserve capacity in the SOR derived from the uncertainties of the day-ahead generation

and load forecasts of the SOR TSOs. If a partial or full usage of the respective reserve capacity by the control capability providing TSO is likely, there is insufficient reserve capacity available for the sharing of reserves. »

2. Article 5, paragraph 7 of the Methodology for the Regional Sizing of Reserve Capacity shall be replaced with the following text:

« To determine the minimum amount for each type of reserve capacity for control capability receiving TSO(s) involved in a sharing agreement, the RCC shall, per each type of reserve capacity and direction, take the locally dimensioned reserve capacity pursuant to dimensioning rules as referred in Articles 127 and 157 of the SO Regulation and subtract the sharing amount. »

3. Article 5, paragraph 8 of the Methodology for the Regional Sizing of Reserve Capacity shall be replaced with the following text:

« If the RCC, taking into account the specificities of TSOs with multiple sharing agreements, detects that the agreed sharing amount may not or may only partially be provided to the control capability receiving TSO in the relevant period, the RCC shall issue an awareness notification to these TSOs. The control capability providing TSO and relevant affected TSO(s) according to the sharing agreement shall be informed about the issued awareness notification, which will also be sent for information to all TSOs of the SOR. Within this awareness notification, the RCC shall recommend to the relevant control capability receiving TSO(s) to increase its required reserve capacity on LFC block level (by the difference of initial sharing amount and determined available sharing amount) up to a maximum of the locally required reserve capacity determined pursuant to dimensioning rules as referred in Articles 127 and 157 of the SO Regulation with an equivalent decrease of the sharing amount between the relevant LFC blocks. The available sharing amount shall be reduced accordingly to the determined available sharing amount – at maximum to zero. »

4. Article 5, paragraph 9 of the Methodology for the Regional Sizing of Reserve Capacity shall be replaced with the following text:

« If the RCC detects that more reserves than the initial sharing amount may be provided from the control capability providing TSO to the control capability receiving TSO during the investigated period, the RCC shall inform the relevant TSOs about the possibility to increase the sharing amount during the time period under consideration and issue a recommendation for such an increase. If the control capability receiving TSO has not taken into account the full amount of reserve capacity subject to sharing as agreed in the underlying sharing agreement, it may increase the sharing amount during the time period considered. If the capability receiving TSO does so, it has to inform the control capability providing TSO(s) and affected TSO(s) without undue delay. In any case consistency with sharing limits pursuant to Article 157(2)(j) and (k) of SOGL and the maximum sharing amount agreed between reserve capability receiving and reserve capability providing TSO shall be ensured. »

5. Article 5, paragraph 10 a. of the Methodology for the Regional Sizing of Reserve Capacity shall be replaced with the following text:

« a. adapt the control capability receiving TSOs' reserve capacity required pursuant to the dimensioning rules as referred in Articles 127 and 157 of the SO Regulation and/or »

6. Article 5, paragraph 13 of the Methodology for the Regional Sizing of Reserve Capacity shall be replaced with the following text:

«Each control capability receiving TSO of the relevant SOR shall submit the final required reserve capacity (including shared reserves if relevant) for each type of reserves of its LFC block to the respective RCC. If more than one TSOs perform a common FRR dimensioning within a LFC block, only one TSO shall submit the relevant values on behalf of all involved TSOs, following Article 166(7) of the SO Regulation. »

Article 6 **Amendments to Article 6 of the Methodology for the Regional Sizing of Reserve Capacity**

1. Article 6, paragraph 1 of the Methodology for the Regional Sizing of Reserve Capacity shall be replaced with the following text:

«Each RCC shall prepare a report on the results of the yearly determination of minimum reserve capacity of the respective SOR performed under Article 4. Each RCC shall include this report as an annex to the report pursuant to Article 46(3) of the Electricity Regulation. »

Article 7 **Amendments to Article 7 of the Methodology for the Regional Sizing of Reserve Capacity**

2. Article 7, paragraph 1 of the Methodology for the Regional Sizing of Reserve Capacity shall be replaced with the following text:

« 1. By 1 July 2026, each RCC shall implement and make operational the process to facilitate TSOs in determining the minimum reserve capacity at SOR level, referred to in Article 4 and the short-term assessment of availability of sharing amounts referred to in Article 5 of this Methodology.

However, where sharing agreements pursuant to Articles 166(5), 168 and 157(2)(j) and (k) of SOGL are not yet established in a SOR, the deadline defined in this paragraph shall not apply for the concerned SOR(s) to the short-term assessment of availability of sharing amounts referred to in Article 5 of this Methodology.

In such cases, each RCC shall perform short-term assessment of availability of sharing amounts, referred to in Article 5 of this methodology within 24 months of the notification of the relevant RCC(s) by the TSOs within each SOR of their intention to establish and apply sharing agreements in accordance with Articles 166(5), 168, 157(2)(j) and (k) of the SOGL between the relevant LFC blocks, and in line with their progressive implementation in operational practice. Accordingly, all TSOs of each SOR shall set up the necessary procedures for data provision to the process and for processing the respective RCC's recommendations, in accordance with this implementation timeline. »

3. Article 7 of the Methodology for the Regional Sizing of Reserve Capacity shall be supplemented with an additional paragraph 2, as follows:

«2. Within 12 months from the date of approval of this Methodology, the TSOs within each SOR may provide RCCs with the data collected on the basis of the methodology adopted by ACER Decision No. 12/2023 for the purpose of determining the minimum reserve capacity at SOR level pursuant to Article 4 of this Methodology. »

4. Article 7 of the Methodology for the Regional Sizing of Reserve Capacity shall be supplemented with an additional paragraph 3, as follows:

«3. TSOs within each SORs intending to establish and apply sharing agreement in accordance with Articles 157(2)(j) and (k) of the SOGL between the relevant LFC blocks shall inform the relevant RCCs of any newly established sharing agreement without undue delay and in any case no later than one week following their establishment. »

5. Article 7 of the Methodology for the Regional Sizing of Reserve Capacity shall be supplemented with an additional paragraph 6, as follows:

« 6. All RCCs shall publish on their websites and keep up to date, without undue delay, the overview of sharing agreements established pursuant to Article 157 of Regulation (EU) 2017/1485 for the SOR in which they operate. »

Article 8 **Language**

1. The reference language for this amendment to the RCC Sizing Methodology shall be English.
2. For the avoidance of doubt, where TSOs need to translate this amendment to RCC Sizing Methodology into their national language(s), in the event of inconsistencies between the English version published by ACER and any version in another language, the relevant TSOs or RCCs shall, in accordance with national legislation, provide the relevant national regulatory authorities with an updated translation of this methodology.

