
All TSOs' proposal for a methodology for a co-optimised allocation process of cross-zonal capacity for the exchange of balancing capacity or sharing of reserves in accordance with Article 40(1) of the Commission Regulation (EU) 2017/2195 of 23 November 2017 establishing a guideline on electricity balancing

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ALL TRANSMISSION SYSTEM OPERATORS, TAKING INTO ACCOUNT THE FOLLOWING:

Whereas

- (1) This document is a common proposal developed by all Transmission System Operators (hereafter referred to as “**TSOs**”). The document provides a methodology for a co-optimised allocation process of cross-zonal capacity for the exchange of balancing capacity or sharing reserves (hereafter referred to as “**CO CZCA methodology**”) in accordance with Article 40 of Commission Regulation (EU) 2017/2195 establishing a guideline on electricity balancing (hereafter referred to as “**EB Regulation**”).
- (2) The CO CZCA methodology takes into account the general principles and goals set in the EBGL, the Regulation (EC) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation (hereafter referred to as the “**SO Regulation**”), Commission Regulation (EU) 2015/1222 of 24 July 2015 establishing a guideline on capacity allocation and congestion management (hereafter referred to as the “**CACM Regulation**”) as well as Regulation (EU) 2019/943 of the European Parliament and of Council of 5 June 2019 on the Internal Market for Electricity (recast) (hereafter referred to as the “**Electricity Regulation**”) as well as Regulation (EC) No 543/2013 of 14 June 2013 on submission and publication of data in electricity markets and amending Annex I to Regulation (EC) No 714/2009 of the European Parliament and the Council (hereafter referred to as the “**Transparency Regulation**”).
- (3) The **CO CZCA methodology** takes into account the general principles, goals and other methodologies set out in the EB Regulation. The goal of the EB Regulation is the integration of balancing markets while contributing to operational security. To facilitate this goal, while contributing to operational security, it is necessary to integrate balancing markets and to promote the possibilities for exchanges of balancing services. Additionally, Article 40 of the EB Regulation formulates the requirements for a methodology for a co-optimised allocation process of CZC for the exchange of balancing capacity or sharing of reserves.
- (4) Article 40 of the EB Regulation constitutes the legal basis for this CO CZCA methodology:
 1. *“By two years after entry into force of this Regulation, all TSOs shall develop a proposal for a methodology for a co-optimised allocation process of cross-zonal capacity for the exchange of balancing capacity or sharing of reserves. This methodology shall apply for the exchange of balancing capacity or sharing of reserves with a contracting period of not more than one day and where the contracting is done not more than one day in advance of the provision of the balancing capacity. The methodology shall include:*
 - (a) *the notification process for the use of the co-optimised allocation process;*
 - (b) *a detailed description of how cross-zonal capacity shall be allocated to bids for the exchange of energy and bids for the exchange of balancing capacity or sharing of reserves in a single optimisation process performed for both implicit and explicit auctions;*
 - (c) *a detailed description of the pricing method, the firmness regime and the sharing of congestion income for the cross-zonal capacity that has been allocated to bids for the exchange of balancing capacity or sharing of reserves via the co-optimised allocation process;*
 - (d) *the process to define the maximum volume of allocated cross-zonal capacity for the exchange of balancing capacity or sharing of reserves.*

2. *This methodology shall be based on a comparison of the actual market value of cross-zonal capacity for the exchange of balancing capacity or sharing of reserves and the actual market value of cross-zonal capacity for the exchange of energy.*
 3. *The pricing method, the firmness regime and the sharing of congestion income for the cross-zonal capacity that has been allocated to bids for the exchange of balancing capacity or sharing of reserves via the co-optimised allocation process shall ensure equal treatment with the cross-zonal capacity allocated to bids for the exchange of energy.*
 4. *Cross-zonal capacity allocated to bids for the exchange of balancing capacity or sharing of reserves via the co-optimised allocation process shall be used only for the exchange of balancing capacity or sharing of reserves and associated exchange of balancing energy.”*
- (5) The CO CZCA methodology generally contributes to the achievement of the objectives stated in Article 3 of the EB Regulation. In particular, this CO CZCA methodology serves the following objectives of the EB Regulation:
- (a) The CO CZCA methodology answers the requirements set out in Article 40 of the EB Regulation;
 - (b) The CO CZCA methodology serves the objective of fostering effective competition, non-discrimination and transparency in balancing markets as stated in Article 3(1)(a) of the EB Regulation by defining the principles to establish a balancing capacity cooperation, using the co-optimisation allocation process and how to notify it as described in Articles 3 and 4, 14 of this CO CZCA methodology;
 - (c) The CO CZCA methodology facilitates the objective for the integration of the balancing markets and promoting the possibilities for the exchanges of balancing services while using market-based mechanisms and contributing to operational security as stated in Article 3(1)(c) and Article 3(2)(d) of the EB Regulation, by means of defining the rules for the procurement of the balancing capacity, through the allocation for the balancing capacity market, together with and at the same time as the allocation of cross-zonal capacity of the day-ahead energy market, as detailed in Articles 6 and 8 of this CO CZCA methodology;
 - (d) The CO CZCA methodology ensures that the development of the day-ahead market is not compromised in accordance with Article 3(2)(e) of the EB Regulation as it is specified in Articles 5 and 10 of this CO CZCA methodology, the CZC allocated for the exchange of balancing capacity or sharing of reserves that is not used, shall be released for the exchange of balancing energy processes with shorter timeframes;
 - (e) The CO CZCA methodology ensures that the procurement of balancing services is done in a fair, objective, transparent way and uses the market-based mechanisms as stated in Article 3(1)(e) of the EB Regulation. This CO CZCA methodology sets in Articles 8, 9 and 14 how the market value and volume, as well as the offered volumes and prices, are determined;
 - (f) The CO CZCA methodology aims at respecting the responsibility assigned to the relevant TSOs in order to ensure system security, including as required by national legislation in accordance with Article 3(2)(f) of the EB Regulation by establishing the maximum limitations to be applied by the balancing capacity cooperation as is defined in Article 6 of this CO CZCA methodology;

- (g) The CO CZCA methodology takes into consideration agreed European standards in accordance with Article 3(2)(h) of this methodology based on the single day-ahead market time unit defined within the CACM Regulation and uses the optimisation resolution from the market coupling operator function, as specified in Article 3, 5, 7, 8 and 9 of this CO CZCA methodology;
- (h) In conclusion, the CO CZCA methodology meets the objectives of the EB Regulation.

SUBMIT THE FOLLOWING CO CZCA METHODOLOGY TO THE AGENCY FOR THE COOPERATION OF ENERGY REGULATORS:

Article 1

Subject matter and scope

- (1) All TSOs lay down in this CO CZCA methodology how to allocate CZC for the exchange of balancing capacity or sharing of reserves, which is based on the actual market values of CZC for the exchange of energy and for the exchange of balancing capacity or sharing of reserves.
- (2) The scope of the CO CZCA methodology does not extend to the assignment of roles and responsibilities to specific parties. Besides, the governance framework for specific roles or responsibilities and TSO-TSO settlement rules are out of the scope, in accordance with Article 13 of the CO CZCA methodology.
- (3) The allocation of CZC applying the co-optimisation methodology is a voluntary initiative by two or more TSOs or at the request of their relevant regulatory authorities in accordance with Article 38(1) of the EB Regulation and is therefore not mandatory.
- (4) The allocation of CZC applying the co-optimisation methodology by two or more TSOs shall be subject to the TSO notification pursuant to Article 150 of the SO Regulation.
- (5) The methodology for the application of the allocation of CZC using the co-optimisation methodology shall include the bidding zone borders, the market timeframe, the duration of application and the detailed description of a methodology to be applied.
- (6) All TSOs within balancing capacity cooperation applying the CO CZCA methodology shall establish a common and harmonised set of rules and processes for the exchange and procurement of balancing capacity pursuant to Article 33 of the EB Regulation, and respecting the requirements set out in Article 32 of the EB Regulation.
- (7) According to Article 38(4) of the EB Regulation, CZC allocated for the exchange of balancing capacity or sharing of reserves shall be used by the TSOs within balancing capacity cooperation, exclusively for the product where it was allocated for, being these: aFRR, mFRR or RR. If the CZC is not used for the exchange of balancing energy for the product it was allocated to; the CZC shall be used by the all-TSOs process for the exchange of balancing energy with shorter activation times or for operating the imbalance netting process taking into account potential cross-border transmission capacity updates. The reliability margin calculated pursuant to CACM Regulation shall be used only for operating and exchanging frequency containment reserves, except on Direct Current (hereafter referred to as the 'DC') interconnectors for which CZC for operating and exchanging frequency containment reserves may also be allocated in accordance with Article 38(1) of the EB Regulation.
- (8) The proposal for a list of standard products for balancing capacity for frequency restoration reserves and replacement reserves pursuant to Article 25(2) of the EB Regulation is out of the scope of this CO CZCA methodology and will be treated in a separate document.

Article 2

Definitions

- (1) For the purposes of this CO CZCA methodology, the terms used shall have the meaning given to them in Article 2 of the Electricity Regulation, Article 2 of the Transparency Regulation, Article 2 of the CACM Regulation, Article 3 of the SO Regulation and Article 2 of the EB Regulation.
- (2) The following definitions shall also apply:

- (a) 'Balancing capacity validity period' means the period for which the single standard product for balancing capacity bid (i.e. each submitted capacity volume has one single bid price) is offered and for which the accepted standard product for balancing capacity bid could be activated as standard balancing energy bid where all the characteristics of the standard balancing energy product are respected. The balancing capacity validity period is defined by a start time and an end time.
 - (b) 'Contracting period' means the period for which balancing capacity is procured by the capacity procurement optimisation function and which may extend over multiple balancing capacity validity periods.
 - (c) 'Cross-zonal capacity allocation optimisation function' means the algorithm that optimises the allocation of CZC between SDAC and balancing capacity markets applied for the allocation of CZC for the exchange of balancing capacity or sharing of reserves.
 - (d) 'Cross-zonal capacity allocation optimisation resolution' means the time interval for which the allocation of CZC for the exchange of energy and for the exchange of balancing capacity and/or sharing of reserves is determined.
 - (e) 'Duration of application' means the period for which balancing capacity cooperation applies the co-optimisation methodology over one or more bidding zone borders to allocate CZC for the exchange of balancing capacity or sharing of reserves according to Article 38(2) of the EB Regulation.
 - (f) 'Use of cross-zonal capacity for the exchange of balancing capacity or sharing of reserves' means the physical use of CZC with an actual transfer of balancing energy.
- (3) In this CO CZCA methodology, unless the context requires otherwise:
- (a) the singular indicates the plural and vice versa;
 - (b) the table of contents and headings are inserted for convenience only and do not affect the interpretation of this CO CZCA methodology;
 - (c) any reference to legislation, regulations, directives, orders, instruments, codes or any other enactment shall include any modification, extension or re-enactment of it when in force;
 - (d) any reference to an Article without an indication of the document shall mean a reference to this CO CZCA methodology.

Article 3

Principles of each balancing capacity cooperation applying this CO CZCA methodology

- (1) Balancing capacity cooperation in the context of co-optimisation consists of two or more TSOs that apply the exchange of balancing capacity or sharing of reserves in a geographical area sharing common bidding zone border(s).
- (2) In case relevant regulatory authorities approve an exemption to separate procurement of upward and downward standard balancing capacity pursuant to Article 5(4)(f) of the EB Regulation, the cross-zonal capacity allocation optimisation function will still allocate CZC for the exchange of balancing capacity or sharing of reserves for each direction (upward and downward) separately. The TSO(s) applying an exemption shall specify within the balancing capacity cooperation how the integrated product should be taken into account in the calculation of the market value of CZC for the exchange of balancing capacity or

sharing of reserves separately for the upward direction and downward direction pursuant to Article 33(1) of the EB Regulation.

- (3) The contracting period of standard balancing capacity bids exchanged with the application of co-optimisation shall be a multiple of the day-ahead market time unit and shall be less or equal to 24 hours.
- (4) The balancing capacity validity period of standard balancing capacity bids exchanged with the concept of co-optimisation shall be equal to the day-ahead market time unit.
- (5) The settlement of the standard balancing capacity bids with the BSPs for each balancing capacity cooperation applying this CO CZCA methodology shall be based on cross-border marginal pricing (pay-as-cleared).
- (6) The CZC allocated for the exchange of balancing capacity or sharing of reserves per product (either RR, mFRR or aFRR) that has not been used by the TSOs who allocated the CZC in the relevant timeframe it was allocated for, shall be released taking into account potential cross-border transmission capacity updates to all TSOs process for the exchange of balancing energy for the same activation time if possible or to all TSOs processes for the exchange of balancing energy with shorter activation times or for operating the imbalance netting process.
- (7) The process of releasing allocated CZC for the exchange of balancing capacity or sharing of reserves shall be coordinated between the balancing energy platforms.

Article 4

Notification process for the use of the co-optimised allocation process

Each balancing capacity cooperation applying this CO CZCA methodology shall inform all stakeholders and all TSOs through an announcement on the ENTSO-E website, at least one (1) month prior to entering into operation. This announcement shall include a detailed description of the balancing capacity cooperation specifications: the type of product for balancing capacity exchanged or shared; the bidding zone borders; the market timeframe; the duration of application for the allocation of CZC; and foreseen date of entry into operation.

Article 5

The timeframe of the co-optimised allocation process

- (1) The co-optimised allocation process to allocate CZC for the exchange of balancing capacity and sharing of reserves shall include the following consecutive timings:
 - (a) The gate closure time for the submission of all standard and integrated balancing capacity bids and energy trading bids by market participants and balancing service providers and TSOs to the respective market operators shall be equal to the single day-ahead coupling gate closure time.
 - (b) For TSOs of balancing capacity cooperation applying a central dispatching model the gate closure time for the submission of the integrated scheduling process bids that are converted to the standard balancing capacity bids shall be defined in the national terms and conditions pursuant to Articles 24(5) and 24(6) of the EBGL.
 - (c) Notification to balancing service providers of selected standard balancing capacity bids shall be done no later than one hour after the publication of SDAC results.

- (2) The co-optimised allocation process to allocate CZC for the exchange of balancing capacity and for sharing of reserves shall include the following consecutive steps:
- (a) Standard and integrated balancing capacity bids shall be submitted to the respective market operator(s) until the gate closure time of balancing capacity bids in accordance with Article 5(1)(a) of this CO CZCA methodology.
 - (b) For TSOs of a balancing capacity cooperation applying a central dispatching model, BSPs may submit only integrated scheduling process bids (instead of standard balancing capacity bids), which may be converted, where possible, into standard upward and/or standard downward balancing capacity bids by the connecting TSO, in accordance with Article 27 of the EB Regulation.
 - (c) After the gate closure time of all submitted bids, the market operators shall convert the bids into seller, supply, buyer and demand curves per bidding zone for the exchange of balancing capacity or sharing of reserves.
 - (d) The balancing capacity market operators shall send to the market coupling operator per product, per direction and per bidding zone:
 - i. the aggregated seller curves for the exchange of balancing capacity or sharing of reserves;
 - ii. the aggregated buyer curves of the TSO balancing capacity demand based for the exchange of balancing capacity;
 - iii. the aggregated buyer curves of the reduced TSO balancing capacity demand based on sharing of reserves agreement of two or more TSOs, including the minimum local reserve requirements;
 - iv. and if necessary additional CZC allocation limitations.
 - (e) The deadline for sending the data of Article 5(2)(d) of this CO CZCA methodology equals the deadline for sending the aggregated supply and demand curves of the day-ahead market bids.
 - (f) The market coupling operator runs the SDAC and takes into account the data according to Article 5(2)(d) of this CO CZCA methodology.
 - (g) The market coupling operator shall:
 - i. determine the allocated CZC for exchange of energy per bidding zone border;
 - ii. clear the single day-ahead market; and
 - iii. determine the allocated CZC for the exchange of balancing capacity or sharing of reserves to be used by the TSOs of each balancing capacity cooperation.
 - (h) The market coupling operator shall send the allocated CZC in accordance with Article 5(2)(g)(iii) of this CO CZCA methodology to each balancing capacity cooperation.
 - (i) Each balancing capacity cooperation shall clear the respective balancing capacity market, using the capacity procurement optimisation function pursuant to Article 33(3) of the EB Regulation, respecting the allocated CZC for the exchange of balancing capacity or sharing of reserves. The TSOs of each balancing capacity cooperation shall update the CZC available for the SIDC, based on the allocation of CZC for the exchange of balancing capacity and/or sharing of reserves.

- (j) The TSOs of each balancing capacity cooperation shall send to the capacity management module the allocated CZC volumes of each bidding zone border, for each balancing capacity product in each direction to be available for the respective balancing energy platforms, pursuant to Articles 19, 20 and 21 of EB Regulation.

Article 6

The process to define the maximum volume of allocated cross-zonal capacity for the exchange of balancing capacity or sharing of reserves

- (1) This CO CZCA methodology imposes no further limitations on the maximum volume of CZC to be allocated for the exchange of balancing capacity or sharing of reserves, pursuant to Article 40 of the EB Regulation.
- (2) The maximum volume of allocated CZC for the exchange of balancing capacity or sharing of reserves as an output of the cross-zonal capacity allocation optimisation function shall, however, respect the rules for the exchange of FRR and RR within a synchronous area, in accordance with Articles 167 and 169 of the SO Regulation.
- (3) TSOs and relevant regulatory authorities of each balancing capacity cooperation may apply additional limits for the maximum volume of allocated CZC for the exchange of balancing capacity or sharing of reserves as an input for the cross-zonal capacity allocation optimisation function, according to Article 5(2)(d)(iv) of this CO CZCA methodology.
- (4) The use of additional limits by each balancing capacity cooperation for the maximum volume of allocated CZC for the exchange of balancing capacity or sharing of reserves shall be set out in the proposal according to Article 33(1) of the EB Regulation.

Article 7

Determination of the actual market value of cross-zonal capacity for the exchange of energy in SDAC

- (1) The actual market value of CZC for the exchange of energy shall:
 - (a) consider the change of economic surplus across all the bidding zones of the SDAC;
 - (b) be defined per day-ahead market time unit; and
 - (c) be calculated based on the actual bids for the exchange of energy submitted to the SDAC.
- (2) The actual market value of CZC for the exchange of energy between all bidding zones of the SDAC shall be calculated based on the incremental economic surplus of the SDAC consisting of the sum of producer surplus, consumer surplus, and congestion income.
- (3) The calculation of the available CZC shall be in accordance with Article 38(5) of the EB Regulation.

Article 8

Determination of the actual market value of cross-zonal capacity for the exchange of balancing capacity or sharing of reserves

- (1) The actual market value of CZC for the exchange of balancing capacity or sharing of reserves between all bidding zones of the balancing capacity cooperation shall be:
 - (a) the change of economic surplus of the entire balancing capacity cooperation region;
 - (b) defined per the day-ahead market time unit;
 - (c) calculated per product and per direction, separately; and
 - (d) calculated based on the standard upward balancing capacity bids or standard downward balancing capacity bids submitted to the capacity procurement optimisation function pursuant to Article 33(3) of the EB Regulation;
- (2) The actual market value of CZC for the exchange of balancing capacity or sharing of reserves between all the bidding zones of the balancing capacity cooperation shall be calculated as the change in the total economic surplus of the balancing capacity cooperation, resulting from the incremental increase of CZC allocated for the exchange of balancing capacity or sharing of reserves. The calculation of the change of economic surplus consists of the change of buyer surplus, congestion income and the seller surplus.
- (3) The TSO demand of balancing capacity per product, per direction and per bidding zone may be price-sensitive for the purposes of possible substitutions between different types of reserve capacity with the aim to minimise the cost of procurement of balancing capacity.
- (4) A TSO demand of balancing capacity per bidding zone that exceeds the available amount of local submitted balancing capacity bids in the bidding zone shall be a price-sensitive demand, and in case the total available BC bids in the balancing capacity cooperation are sufficient, the CZCA optimisation is still performed.

Article 9

Determination of the allocated volume of cross-zonal capacity for the exchange of balancing capacity or sharing of reserves

- (1) The allocation of CZC for the exchange of balancing capacity or sharing of reserves is determined simultaneously with the CZC allocation for the exchange of energy by the optimisation function of the SDAC.
- (2) The objective function of the SDAC with the implementation of CO CZCA methodology shall be the maximisation of the total economic surplus for the sum of the exchange of energy and the exchange of balancing capacity or sharing of reserves per trading day.
- (3) The cross-zonal capacity allocation optimisation resolution for the allocation of CZC for the exchange of balancing capacity and sharing of reserves equals the cross-zonal capacity allocation optimisation resolution of the day-ahead market coupling function.
- (4) Each marginal volume of CZC shall be allocated to the exchange of energy in case the market value of CZC for the exchange of balancing capacity or sharing of reserves is lower or equal to the market value of CZC for the exchange of energy.
- (5) Netting for CZC allocated to the exchange of balancing capacity or sharing of reserves is not possible between:
 - (a) standard upward and downward balancing capacity bids;

- (b) standard balancing capacity bids from different balancing capacity products;
 - (c) a standard balancing capacity bid and a day-ahead market bid.
- (6) The inputs of the cross-zonal capacity allocation optimisation function are:
- (a) available network capacities;
 - (b) balancing capacity bids and offers;
 - (c) potential sharing of reserves volumes per product and per direction;
 - (d) additional constraints and limitations related to the procurement of balancing capacity;
 - (e) the energy trading bids and offers.
- (7) The outputs of the cross-zonal capacity allocation optimisation function are:
- (a) clearing prices of the day-ahead market;
 - (b) matched trades;
 - (c) scheduled exchanges;
 - (d) the net position of bidding areas;
 - (e) allocated volumes of CZC for the exchange of balancing capacity per bidding zone border;
 - (f) allocated volumes of CZC for sharing of reserves per bidding zone border.

Article 10

Firmness regime for the allocation of cross-zonal capacity

- (1) The allocated CZC for the exchange of balancing capacity or sharing of reserves shall be firm at the publication of the SDAC results.
- (2) If the CZC allocated for the exchange of balancing capacity or sharing of reserves has not been used for the associated exchange of balancing energy by the respective TSOs, it shall be released to all TSOs process taking into account potential cross-border transmission capacity updates, in accordance with Articles 1(7) and 3(6) of this CO CZCA methodology.
- (3) The procured balancing capacity bids, pursuant to Article 33(3) of the EB Regulation, shall be firm after the capacity procurement optimisation function operated by each balancing capacity cooperation.
- (4) The costs of ensuring firmness shall be shared in accordance with the regional methodologies developed in accordance with Article 74 of EC Regulation 2015/1222.
- (5) Costs or benefits associated with mitigating effects in the case of curtailment of firm CZC in the event of force majeure or emergency situations, in accordance with paragraph 3 of this Article, shall be borne by the relevant TSOs infringed in this curtailment. These costs include the additional costs from the procurement of balancing capacity due to the non-availability of the balancing capacity given the curtailment of CZC. Each TSO shall be entitled to set a cost compensation cap.

Article 11

Pricing of cross-zonal capacity

- (1) Each balancing capacity cooperation allocating CZC for the exchange of balancing capacity or sharing of reserves applying the CO CZCA methodology shall calculate the CZC price for the volume of CZC that is allocated for the exchange of balancing capacity or sharing of reserves.
- (2) The CZC price resulting from the allocation of CZC for the exchange of balancing capacity or sharing of reserves applying the CO CZCA methodology shall correspond for each direction to the difference between the marginal prices of the standard product balancing capacity in each direction on each side of the bidding zone border.

Article 12

Sharing of congestion income from cross-zonal capacity

The congestion income coming from the application of this CO CZCA methodology will be considered as day-ahead congestion income and as such shall be shared in accordance with the methodology of Articles 73 of the CACM and Article 40(3) of the EB Regulation.

Article 13

Implementation timeline

- (1) By one year after approval of this CO CZCA methodology, all TSOs shall publish on the ENTSO-E website an implementation impact assessment and notify ACER. The implementation impact assessment shall be prepared in cooperation with all nominated electricity market operators.
- (2) The implementation impact assessment shall at least include:
 - (a) Governance of the CZC allocation optimisation function;
 - (b) Technical feasibility of the implementation of the CZCA optimisation function;
 - (c) Flow-based compatibility;
 - (d) Compatibility with the methodology for the price coupling algorithm and the continuous trading matching algorithm;
 - (e) Impact analysis on the operational security of the interconnected transmission system;
 - (f) Level of linkage between standard balancing capacity bids in time and between products and between standard balancing capacity bids and day-ahead market bids;
 - (g) The reasoning for the two-steps approach; and
 - (h) Costs estimation, categorisation and sharing.
- (3) By one year after the publication of the implementation impact assessment in accordance with paragraph 1 of this Article, and provided the positive outcome of the impact assessment with respect to letters (2)(b), (2)(c), (2)(d), 2(e), 2(f), 2(g) and (2)(h) of paragraph 2 of this Article, all TSOs shall send the common set of requirements of the algorithm for co-optimisation pursuant to Article 58(3) of EB Regulation to ACER and all nominated electricity market operators designated in accordance with Article 4(1) of the CACM Regulation. All TSOs shall publish on the ENTSO-E website the common set of requirements of the algorithm for co-optimisation.

Article 14

Publication

- (1) All TSOs shall publish the CO CZCA methodology without undue delay after a decision has been adopted by the Agency for the Cooperation of Energy Regulators in accordance with Article 5(2) of the ACER Regulation or after all TSOs submit an amended proposal under request of one or several regulatory authorities, in accordance with Article 6(1) of the EB Regulation, or on their own initiative, in accordance with Article 6(3) of the EB Regulation.
- (2) Each TSO part of a balancing capacity cooperation shall publish information on offered volumes as well as offered prices of procured balancing capacity, anonymised where necessary, as soon as possible but no later than one hour after the results of the procurement have been notified to the bidders, pursuant to Article 12(3)(f) of the EB Regulation.
- (3) Each TSO part of a balancing capacity cooperation shall publish information in accordance with Article 12(3)(h) of the EB Regulation on the allocation of CZC for the exchange of balancing capacity or sharing of reserves pursuant to Article 38(1)(a) of the EB Regulation, as defined in Article 5(1)(a) of this CO CZCA methodology without undue delay and no later than 6 hours before the use of the allocated CZC, including the:
 - (a) date and time when the decision on allocation was made;
 - (b) period of the allocation;
 - (c) volumes allocated; and
 - (d) market values used as a basis for the allocation process, in accordance with Article 39 of the EB Regulation.
- (4) Each TSO part of a balancing capacity cooperation shall inform on the use of allocated CZC for the exchange of balancing capacity or sharing of reserves pursuant to Article 38 of the EB Regulation without undue delay and at the latest one week after the use of allocated CZC, pursuant to Article 12(3)(i) of the EB Regulation, including the:
 - (a) volume of allocated and used cross-zonal capacity per market time unit;
 - (b) volume of released cross-zonal capacity for subsequent timeframes per market time unit; and
 - (c) estimated realised costs and benefits of the allocation process.
- (5) Each TSO part of balancing capacity cooperation shall publish the approved methodologies at least one month before its application, pursuant to Article 12(3)(j) of the EB Regulation.
- (6) Subject to the approval of relevant regulatory authorities, pursuant to Article 18 of the EB Regulation, a TSO may withhold the publication of information on offered prices and volumes of balancing capacity or balancing energy bids, if justified for concerns of market abuse and if not detrimental to the effective functioning of the electricity markets. A TSO shall report such withholdings at least once a year to the relevant regulatory authority, in accordance with Article 37 of Directive 2009/72/EC and pursuant to Article 12(5) of the EB Regulation.

Article 15

Language

The reference language for this CO CZCA methodology shall be English. For the avoidance of doubt, where TSOs need to translate this CO CZCA methodology into their national language(s), in the event of inconsistencies between the English version published by all TSOs in accordance with Article 7 of the EB Regulation and any version in another language, the relevant TSOs shall be obliged to dispel any inconsistencies by providing a revised translation of this CO CZCA methodology to their relevant regulatory authorities.