ACER
European Union Agency for the Cooperation of Energy Regulators

ACER Decision on the amendment of the determination of capacity calculation regions: Annex ~~I~~IIa

(consolidated version, for information only)

Amendment of the Determination of Capacity Calculation Regions

in accordance with Article 15(1) of Commission Regulation (EU) 2015/1222 of 24 July 2015 establishing a guideline on capacity allocation and congestion management

~~19 March 2024~~~~10~~ 16 December 2025

Contents

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Whereas

(1) This document sets out the determination of capacity calculation regions (hereafter referred to as "CCRs") in accordance with Article 15(1) of the Commission Regulation (EU) 2015/1222 of 24 July 2015 establishing

a Guideline on Capacity Allocation and Congestion Management (hereafter referred to as the "Determination of CCRs").

(2) On 17 November 2015, all Transmission System Operators (hereafter referred to as "all TSOs") submitted the "All TSOs' proposal for Capacity Calculation Regions in accordance with Article 15(1) of the 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"), together with an explanatory note to all regulatory authorities.

(3) On 17 November 2016 the Agency for the Cooperation of Energy Regulators (hereafter referred to as "ACER") issued its Decision 06/2016 on the "Electricity Transmission System Operators' Proposal for the Determination of Capacity Calculation Regions" which adopted the Determination of CCRs.

(4) On 30 June 2017, in accordance with Article 9(13) of the CACM Regulation, all TSOs submitted to all regulatory authorities the first proposal for amendment of the Determination of CCRs. On 18 September 2017, all regulatory authorities approved the first proposal for amendment of the Determination of CCRs.

(5) On 23 May 2018, all TSOs submitted to all regulatory authorities the second proposal for amendment of the Determination of CCRs. All regulatory authorities did not reach an agreement to approve the proposal and requested ACER to adopt a decision on the proposal, pursuant to Article 9(11) of the CACM Regulation. On 1 April 2019 ACER issued its Decision 04/2019 on the "Electricity Transmission System Operators' Proposal for the Determination of Capacity Calculation".

(6) By its judgments of 24 October 2019 in the cases T-332/17 and T-333/17, the General Court annulled ACER Board of Appeal's (hereafter referred to as "ACER BoA") Decision A-001-2017 (consolidated) of 17 March 2017 dismissing the appeal against ACER Decision 06/2016. The ACER BoA has relaunched the procedure to review ACER Decision 06/2016 and issued a new decision on 22 May 2020. With the latter, ACER BoA remitted the case to the Director of ACER and specified that *"the competent party or parties – based on the rules of competence provided for by regulations currently in force – should review the Contested Decision, i.e. ACER Decision 06/2016, and amend it, replace it or confirm it, as they see relevant, and based on current circumstances. Hence the Agency should refer the decision to such party or parties. The Contested Decision will remain in force until such amendment, replacement or confirmation, if any".*

(7) On 5 June 2020, ACER's Director sent a letter to all TSOs inviting them to prepare an updated proposal for the Determination of CCRs and submit it to ACER for approval in the shortest time possible; drawing TSOs' attention on:

(i) The changes since the initial all TSOs' proposal for the Determination of CCRs of 29 October 2015. In particular, there have been two amendments to the Determination of CCRs adopted since then, and,

(ii) Article 5(2) of Regulation (EU) 2019/942 of the European Parliament and of the Council of 5 June 2019 establishing a European Union Agency for the Cooperation of Energy Regulators (hereafter referred to as the "Regulation (EU) 2019/942") introduced a new procedure for the approval of proposals for common terms and conditions or methodologies where an all TSOs' proposal is now to be submitted directly to ACER.

(8) On 5 June 2020, ACER's Board of Regulators sent a letter to the TSOs expressing full support and endorsement on the views and process set out by the ACER Director in his letter of 5 June.

(9) On 9 November 2020 all TSOs submitted to ACER the third proposal for amendment of the Determination of CCRs. On 7 May 2021 ACER issued its Decision 04/2021 on the "Electricity Transmission System Operators' Proposal for the Determination of Capacity Calculation".

(10) After the CACM Regulation became part of the Agreement on the European Economic Area (EEA) and then entered into force in Norway on 1 August 2021, ACER issued on 31 March 2023 its Decision 08/2023, assigning, for the EU, the Norwegian bidding zone borders to the relevant CCRs, namely CCR Nordic and CCR Hansa. By the decision of the EFTA Surveillance Authority of 24 April 2023 and the subsequent decision of NVE-RME of 18 August 2023, the Norwegian bidding zone borders were assigned for Norway to CCRs Nordic and Hansa.

(11) While there is currently no operational interconnector between the Single Electricity Market (SEM) of Ireland and Northern Ireland, and a European Union bidding zone, the proposed Celtic interconnector between Ireland and France is due to be completed in 2026. The Celtic interconnector will create a new bidding zone border between the bidding zones of SEM and France. This determination of CCRs assigns the SEM-FR bidding zone border to the Core and Central Europe CCRs.

(12) This Determination of CCRs merges the Core and Italy North capacity calculation regions into the Central Europe CCR for day-ahead capacity calculation. It is in line with the objectives of the CACM Regulation that the CCR Core and CCR Italy North are merged and apply a common capacity calculation, using the flow-based approach. However, a full merger of Core and Italy North (for all timeframes and all CCR related methodologies) at this point would have negative impacts on ongoing projects within the existing CCRs, which are not yet implemented, such as the long-term capacity calculation and the ROSC. To this end, a partial merger for the purpose of the implementation of a common day-ahead capacity calculation methodology is currently preferable. All other obligations related to the CCRs according to the CACM Regulation, Commission Regulation (EU) 2016/1719 of 26 September 2016 establishing a guideline on forward capacity allocation (the FCA Regulation), Commission Regulation (EU) 2017/2195 of 23 November 2017 establishing a guideline on electricity balancing (the EB Regulation) and Commission Regulation (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation (the SO Regulation), as well as any other applicable European legislation shall apply to the CCR Central Europe using a stepwise approach, by transferring these obligations from the CCRs Core and Italy North, which will cease to exist at the end of this process. The involved TSOs and NRAs shall agree on the respective steps and timeline based on the progress of the existing regional implementation projects and develop a concept for the merger of all other CCR related obligations. This methodology shall be amended correspondingly to future merging steps of the CCR Core and Italy North.

(13) This determination of CCRs considers the high interdependency of the capacity calculation with Switzerland with the regions Italy North and Core. TSOs of both regions have developed or plan to develop solutions for coordination with Switzerland before and after the Core – Italy North merger, based on a contractual framework. The merger of Core and Italy North would enable to maximally include and coordinate Swiss borders in the capacity calculation process, thus providing the most efficient capacity calculation for the whole Central Europe among all viable alternatives and hence contributing to the objectives of the CACM and the Electricity Regulation.

(14) This Determination of CCRs takes into account the general principles and goals set out in the CACM Regulation as well as in Regulation (EU) 2019/943 of the European Parliament and of the Council on the internal market for electricity (hereafter referred to as the "Electricity Regulation"). The goal of the CACM

Regulation is the coordination and harmonisation of capacity calculation and allocation in the day-ahead and intraday cross-border markets, and it sets requirements for the TSOs to cooperate on the level of CCRs, on a pan-European level and across bidding zone borders.

(15) According to Article 9 (9) of the CACM Regulation, the expected impact of the Determination of CCRs on the objectives of the CACM Regulation has to be described. The impact is presented below taking into account that the CACM Regulation places the definition of these CCRs as well as the methodologies to be applied in these regions within a framework of continuous harmonisation, applying the most efficient capacity calculation methodology within each CCR.

(16) This Determination of CCRs contributes to the achievement of the objectives of Article 3 of CACM Regulation. In particular, this Determination of CCRs contributes to ensuring optimal use of transmission infrastructure by linking bidding zone borders, where coordination needs in capacity calculation are high. Within the CCR, the interdependencies between the cross-zonal capacities can be modelled most accurately and efficiently, and the optimal level of cross-zonal capacity can be given to the market, at the cost of increasing complexity in capacity calculation for larger CCRs. This Determination of CCRs aims to strike a balance between both aspects ('larger where currently possible, smaller where currently necessary') and consequently contributes to the optimal use of transmission infrastructure in accordance with Article 3(b) of the CACM Regulation.

(17) This Determination of CCRs also contributes to operational security in accordance with Article 3(c) of the CACM Regulation. If interdependency between bidding zone borders is not correctly taken into account in capacity calculation, cross-zonal capacity given to the market might be too high, potentially causing overloads on transmission lines and thus, endangering the operational security of the transmission system. Usually in these cases, less cross-zonal capacity would be given to the market to ensure operational security at the expense of optimal use of transmission infrastructure. To the extent currently possible, this Determination of CCRs allows for a proper coordination between bidding zone borders and for modelling of regional features based on a common grid model, which give a high level of cross-zonal capacity to the market without endangering operational security.

(18) The Determination of CCRs lays the ground for the development and implementation of regional common capacity calculation methodologies, which ensures coordination within the CCRs and thereby contributes to the objective of optimising the calculation and allocation of cross-zonal capacity in accordance with Article 3(d) of the CACM Regulation. The number and size of CCRs as defined in this Determination of CCRs constitutes the most feasible approach for optimising capacity calculation. While for interdependent bidding zone borders capacity calculation and allocation is generally most efficiently performed within one CCR, coordination and compatibility across the regions is also explicitly required by Article 21(1)(b)(vii) and Article 29(9) of the CACM Regulation. By appropriate standardisation and coordination, TSOs should ensure both compatible capacity calculation methodologies across CCRs and a coordinated application of the methodologies across the CCRs.

(19) The current assignment of the bidding zone border DK1-NL and DK1-DE/LU to the Hansa CCR might be debatable in the light of the objectives to ensure the optimal use of the transmission infrastructure (Article 3(b) of the CACM Regulation) and to optimise the calculation and allocation of cross-zonal capacity (Article 3(d) of the CACM Regulation). However, any alternative CCR configuration at the time of this Determination of CCRs might have negative impacts on important existing implementation projects and initiatives in the current CCRs, and therefore might hamper the objective of efficient long-term operation and development

~~of the electricity transmission system (Article 3(g) of the CACM Regulation). To ensure that the objectives of Article 3(b), (d) and (g) of the CACM Regulation are respected, this Determination of CCRs foresees a reassessment of the CCR Determination in the future, as prescribed in Article 12, once the objectives of efficiency and optimal use of cross-zonal capacity can be better assessed.~~

~~(20) The coordinated capacity calculation within a CCR could reveal constraining elements in the transmission network, which contributes to the long-term operation and development of the electricity transmission system and electricity sector in the Union. Therefore, the Determination of CCRs contributes to the objective of Article 3(g) of the CACM Regulation.~~

~~(21) As a long-term target, the CACM Regulation aims to harmonise the regional capacity calculation methodologies of CCRs and merge CCRs when efficiency reasons justify doing so. This Determination of CCRs is an important step on the roadmap towards this long-term target. It is crucial that this roadmap is efficient and does not jeopardise progress towards the long-term target. The Determination of CCRs builds, thus, on current practice and existing projects, and represents a progressive and pragmatic harmonisation of capacity calculation.~~

~~(22) The Determination of CCRs contributes to the objective of promoting effective competition in generation, trading and supply of electricity (Article 3(a) of the CACM Regulation), because it takes into account market specificities on bidding zone borders by allowing optimally configured CCRs to be established.~~

~~(23) Regarding the objective of transparency and reliability of information (Article 3(f) of the CACM Regulation), this Determination of CCRs will be the basis for further work towards market integration in a transparent way. It shows where bidding zone borders are fully coordinated in capacity calculation and where all TSOs of each CCR will develop common methodologies as defined in CACM Regulation. These methodologies will be consulted upon, approved by regulatory authorities when applicable and published by TSOs, thus, increasing transparency and reliability of information.~~

~~(24) This Determination of CCRs does not have any material impacts on the other objectives referred to in Article 3 (e), (h), (i) and (j) of the CACM Regulation.~~

~~(25) In conclusion, this Determination of CCRs contributes to the objectives of the CACM Regulation to the benefit of all market participants and electricity end consumers.~~

TITLE 1
General Provisions

Article 1
Subject matter and scope

1. The CCRs cover the following:

   a) all existing bidding zone borders within and between Member States, to which the CACM Regulation applies;

   b) all existing bidding zone borders between Member States and Energy Community Contracting Parties, to which the EnC CACM Regulation applies as transposed by the Energy Community Contracting Parties;

   c) all existing bidding zone borders between Energy Community Contracting Parties, to which the EnC CACM Regulation applies as transposed by the Energy Community Contracting Parties;

   ~~b)~~d) future bidding zone borders established as a result of interconnections operated by legal entities certified as TSOs which are under construction at the time of the approval of this Determination of CCRs and planned to be commissioned.

2. Any changes in the bidding zone border configuration of Member States or Energy Community Contracting Parties shall be taken into account in proposals for amendments to this document in accordance with Article 9(13) of the CACM Regulation~~.~~ as well as Article 9(13) of the EnC CACM Regulation.

3. This determination of CCRs shall apply to the TSOs listed in Appendix 2. It applies to the TSOs of the Energy Community Contracting Parties in accordance with Article 9(6)(b) of the EnC CACM Regulation.

Article 2
Definitions and interpretation

1. Terms used in this document shall have the meaning of the definitions included in Article 2 of the CACM Regulation and Article 2 of the Electricity Regulation~~.~~ and, where bidding zones and bidding zone borders of the Energy Community are mentioned, their equivalent provisions in the EnC CACM Regulation and Regulation (EU) 2019/943 of 5 June 2019 on the internal market for electricity, as incorporated into the Energy Community legal framework by the Energy Community Ministerial Council Decision 2022/03/MC-EnC of 15 December 2022.

2. In this document, unless the context clearly indicates otherwise:

   a) the singular also includes the plural and vice versa;
   b) headings are inserted for convenience only and do not affect the interpretation of this document;
   c) any reference to legislation, regulations, directive, order, instrument, code or any other enactment shall include any modification, extension or re-enactment of it then in force; and
   d) in case of inconsistency between any of the provisions in Title 2 and the maps included in the Appendix to this document the provisions in Title 2 shall prevail.

3. This document shall be binding upon and shall ensure to the benefit of the TSOs as referred to herein and their permitted successors and assigns and irrespective of any change in the TSOs' names.

TITLE 2
Capacity Calculation Regions

Article 3
Capacity Calculation Region 1: Nordic

1. The CCR Nordic shall include the bidding zone borders listed below, and shown on map 1 included in the Appendix 1 to this document, as attributed to the referred TSOs:

   a) Denmark 1 - Sweden 3 (DK1 - SE3), Energinet and Svenska kraftnät;
   b) Denmark 2 - Sweden 4 (DK2 - SE4), Energinet and Svenska kraftnät;
   c) Denmark 1 - Denmark 2 (DK1 - DK2), Energinet;
   d) Sweden 4 - Sweden 3 (SE4 - SE3), Svenska kraftnät;
   e) Sweden 3 - Sweden 2 (SE3 - SE2), Svenska kraftnät;
   f) Sweden 2 - Sweden 1 (SE2 - SE1), Svenska kraftnät;
   g) Sweden 3 - Finland (SE3 - FI), Svenska kraftnät, Kraftnät Åland AB and Fingrid Oyj;
   h) Sweden 1 - Finland (SE1 - FI), Svenska kraftnät and Fingrid Oyj;
   i) Norway 1 - Norway 2 (NO1 - NO2), Statnett SF;
   j) Norway 1 - Norway 3 (NO1 - NO3), Statnett SF;
   k) Norway 1 - Norway 5 (NO1 - NO5), Statnett SF;
   l) Norway 2 - Norway 5 (NO2 - NO5), Statnett SF;
   m) Norway 3 - Norway 5 (NO3 - NO5), Statnett SF;
   n) Norway 3 - Norway 4 (NO3 - NO4), Statnett SF;
   o) Norway 1 - Sweden 3 (NO1 - SE3), Statnett SF and Svenska kraftnät;
   p) Norway 3 - Sweden 2 (NO3 - SE2), Statnett SF and Svenska kraftnät;
   q) Norway 4 - Sweden 2 (NO4 - SE2), Statnett SF and Svenska kraftnät;
   r) Norway 4 - Sweden 1 (NO4 - SE1), Statnett SF and Svenska kraftnät;
   s) Norway 4 - Finland (NO4 - FI), Statnett SF and Fingrid Oyj; and
   t) Norway 2 - Denmark 1 (NO2 - DK1), Statnett SF and Energinet.

Article 4
Capacity Calculation Region 2: Hansa

The CCR Hansa shall include the bidding zone borders listed below, and shown on map 2 included in the Appendix 1 to this document, as attributed to the referred TSOs:

   a) Denmark 1 - Germany/Luxembourg (DK1 - DE/LU), Energinet and TenneT TSO GmbH;
   b) Denmark 2 - Germany/Luxembourg (DK2 - DE/LU), Energinet and 50Hertz Transmission GmbH;
   c) Sweden 4 - Poland (SE4 - PL), Svenska Kraftnät and Polskie Sieci Elektroenergetyczne S.A.;
   d) Denmark 1 - Netherlands (DK1 - NL), Energinet and TenneT TSO B.V.;
   e) Sweden 4 - Germany/Luxembourg (SE4 - DE/LU), Svenska Kraftnät, TenneT TSO GmbH and Baltic Cable AB;
   f) Norway 2 - Netherlands (NO2 - NL), Statnett SF and TenneT TSO B.V.; and
   g) Norway 2 - Germany/Luxembourg (NO2 - DE/LU), Statnett SF and TenneT TSO GmbH.

Article 5
Capacity Calculation Region 3: Core

1. Without prejudice to Article 7, the CCR Core shall include the bidding zone borders listed below, and shown on map 3 included in the Appendix 1 to this document, as attributed to the referred TSOs:
   a) France – Belgium (FR – BE), RTE – Réseau de transport d'électricité and Elia Transmission Belgium NV/SA ;
   b) Belgium – Netherlands (BE – NL), Elia Transmission Belgium NV/SA and TenneT TSO B.V.;
   c) France – Germany/Luxembourg (FR – DE/LU), RTE – Réseau de transport d'électricité ; Amprion GmbH and TransnetBW GmbH ;
   d) Netherlands – Germany/Luxembourg (NL – DE/LU), TenneT TSO B.V., TenneT TSO GmbH and Amprion GmbH ;
   e) Belgium – Germany/Luxembourg (BE – DE/LU), Elia Transmission Belgium NV/SA, Creos Luxembourg S.A. and Amprion GmbH ;
   f) Germany/Luxembourg – Poland (DE/LU – PL), 50Hertz Transmission GmbH and Polskie Sieci Elektroenergetyczne S.A. ;
   g) Germany/Luxembourg – Czech Republic (DE/LU – CZ), TenneT TSO GmbH, 50Hertz Transmission GmbH and ČEPS, a.s. ;
   h) Austria – Czech Republic (AT – CZ), Austrian Power Grid AG and ČEPS, a.s.;
   i) Austria – Hungary (AT – HU), Austrian Power Grid AG and MAVIR Hungarian Independent Transmission Operator Company Ltd.;
   j) Austria – Slovenia (AT – SI), Austrian Power Grid AG and ELES, d.o.o.;
   k) Czech Republic – Slovakia (CZ – SK), ČEPS, a.s. and Slovenská elektrizačná prenosová sústava, a.s.;
   l) Czech Republic – Poland (CZ – PL), ČEPS, a.s. and Polskie Sieci Elektroenergetyczne S.A.;
   m) Hungary – Slovakia (HU – SK), MAVIR Hungarian Independent Transmission Operator Company Ltd. And Slovenská elektrizačná prenosová sústava, a.s.;
   n) Poland – Slovakia (PL – SK), Polskie Sieci Elektroenergetyczne S.A. and Slovenská elektrizačná prenosová sústava, a.s.;
   o) Croatia – Slovenia (HR – SI), Croatian Transmission System Operator Plc. (HOPS d.d.) and ELES, d.o.o.;
   p) Croatia – Hungary (HR – HU), Croatian Transmission System Operator Plc. (HOPS d.d.) and MAVIR Hungarian Independent Transmission Operator Company Ltd.;
   q) Romania – Hungary (RO – HU), Compania Naţională de Transport al Energiei Electrice "Transelectrica" S.A. and MAVIR Hungarian Independent Transmission Operator Company Ltd.;
   r) Hungary – Slovenia (HU – SI), MAVIR Hungarian Independent Transmission Operator Company Ltd. And ELES, d.o.o.; and
   s) Germany/Luxembourg – Austria (DE/LU – AT), Austrian Power Grid AG, TransnetBW GmbH, TenneT TSO GmbH and Amprion GmbH;
   t) Single Electricity Market in Ireland and Northern Ireland – France (SEM-FR), EirGrid – EirGrid plc and RTE – Réseau de transport d'électricité.

2. The assignment of the bidding zone border SEM-FR to the CCR Core shall be effective from the date of operation of the interconnector on the respective bidding zone border.

3. In order to accommodate the specific case of the Single Electricity Market in Ireland and Northern Ireland, SONI is assigned to the CCR Core.

Article 6
Capacity Calculation Region 4: Italy North

Without prejudice to Article 7, the CCR Italy North shall include the bidding zone borders listed below, and shown on map 4 included in the Appendix 1 to this document, as attributed to the referred TSOs:

a) Italy NORD - France (NORD - FR), TERNA Rete Elettrica Nazionale S.p.A. and RTE - Réseau de transport d'électricité;
b) Italy NORD - Austria (NORD - AT), TERNA Rete Elettrica Nazionale S.p.A. and Austrian Power Grid AG; and
c) Italy NORD - Slovenia (NORD - SI), TERNA Rete Elettrica Nazionale S.p.A. and ELES d.o.o..

Article 7
Capacity Calculation Region 5: Central Europe (CE)

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The CCR ~~Central Europe~~CE shall be established for capacity calculation in the day-ahead timeframe and intraday timeframe, as well as for the methodologies for regional operational security coordination in accordance with Article 76 of the SO Regulation, for the coordinated redispatching and countertrading methodology in accordance with Article 35 of the CACM Regulation and for the redispatching and countertrading cost sharing methodology in accordance with Article 74 of the CACM Regulation. The CCR CE shall include all bidding zone borders and attributed TSOs listed in Articles 5 and 6 and shown on map 5 included in the Appendix 1 to this document.

Article 8
Capacity Calculation Region 6: Greece-Italy (GRIT)

The CCR GRIT shall include the bidding zone borders listed below, and shown on map 6 included in the Appendix 1 to this document, as attributed to the referred TSOs:

a) Italy SUD - Greece (SUD - GR), TERNA Rete Elettrica Nazionale S.p.A. and Independent Power Transmission Operator S.A.;
b) Italy NORD - Italy CNOR (NORD - CNOR), TERNA Rete Elettrica Nazionale S.p.A.;
c) Italy CNOR - Italy CSUD (CNOR - CSUD), TERNA Rete Elettrica Nazionale S.p.A.;
d) Italy CNOR - Italy SARD (CNOR - SARD), TERNA Rete Elettrica Nazionale S.p.A.;
e) Italy SARD - Italy CSUD (SARD - CSUD), TERNA Rete Elettrica Nazionale S.p.A.;
f) Italy CSUD - Italy SUD (CSUD - SUD), TERNA Rete Elettrica Nazionale S.p.A.;
g) Italy SUD - Italy CALA (SUD - CALA), TERNA Rete Elettrica Nazionale S.p.A.; and
h) Italy CALA - Italy SICI (CALA - SICI), TERNA Rete Elettrica Nazionale S.p.A..

Article 9
Capacity Calculation Region 7: South-west Europe (SWE)

The CCR SWE shall include the bidding zone borders listed below, and shown on map 7 included in the Appendix 1 to this document, as attributed to the referred TSOs:

a) France - Spain (FR - ES), RTE - Réseau de transport d'électricité and REE - Red Eléctrica de España, S.A.U.; and

b) Spain - Portugal (ES - PT), REE - Red Eléctrica de España, S.A.U. and REN - Rede Eléctrica Nacional, S.A..

Article 10
Capacity Calculation Region 8: Baltic

The CCR Baltic shall include the bidding zone borders listed below, and shown on map 8 included in the Appendix 1 to this document, as attributed to the referred TSOs:

a) Estonia - Latvia (EE - LV), Elering AS and Augstsprieguma tīkls;

b) Latvia - Lithuania (LV - LT), Augstsprieguma tīkls and Litgrid AB;

c) Estonia - Finland (EE - FI), Elering AS and Fingrid Oyj;

d) Lithuania – Sweden 4 (LT - SE4), Litgrid AB and Svenska kraftnät; and

e) Lithuania - Poland (LT - PL), Litgrid AB and Polskie Sieci Elektroenergetyczne S.A..

Article 11
Capacity Calculation Region 9: South-east Europe (SEE)

1. The CCR SEE shall include the bidding zone borders listed below, and shown on map 9 included in the Appendix 1 to this document, as attributed to the referred TSOs:

a) Greece - Bulgaria (GR - BG), Independent Power Transmission Operator S.A. and Elektroenergien Sistemen Operator ~~(ESO)~~ EAD; ~~and~~

b) Bulgaria - Romania (BG - RO), Elektroenergien Sistemen Operator ~~(ESO)~~ EAD and Compania Naţională de Transport al Energiei Electrice "Transelectrica" S.A~~.~~.;

c) CGES – OST (CGES – OST), Crnogorski elektroprenosni sistem AD and Operatori i Sistemit Te Transmetimit sh.a.;

d) OST – KOSTT (OST – KOSTT), Operatori i Sistemit te Transmetimit sh.a. and Operator sistemi, transmisioni dhe tregu Sh.A.;

e) OST – MEPSO (OST – MEPSO), Operatori i Sistemit te Transmetimit – OST sh.a and Makedonski elektroprenosen sistem operator a.d. (MEPSO);

f) MEPSO – EMS (MEPSO – EMS), Makedonski elektroprenosen sistem operator a.d. and Elektromreža Srbije AD;

g) CGES – KOSTT (CGES – KOSTT), Crnogorski elektroprenosni sistem AD and Operator sistemi, transmisioni dhe tregu Sh.A.;

h) MEPSO – KOSTT (MEPSO – KOSTT), Makedonski elektroprenosen sistem operator a.d. and Operator sistemi, transmisioni dhe tregu Sh.A.;

i) EMS – KOSTT (EMS – KOSTT), Elektromreža Srbije AD and Operator sistemi, transmisioni dhe tregu Sh.A.;

j) Bulgaria – EMS (BG – EMS), Elektroenergien Sistemen Operator EAD and Elektromreža Srbije AD;

k) Bulgaria – MEPSO (BG – MEPSO), Elektroenergien Sistemen Operator EAD and Makedonski elektroprenosen sistem operator a.d.;

l) Greece – MEPSO (GR - MEPSO), Independent Power Transmission Operator S.A. and Makedonski elektroprenosen sistem operator a.d.;

m) Greece – OST (GR - OST), Independent Power Transmission Operator S.A. (IPTO) and Operatori i Sistemit Te Transmetimit – OST sh.a.; and

n) Romania – EMS (RO- EMS), Compania Națională de Transport al Energiei Electrice "Transelectrica" S.A. and Elektromreža Srbije AD;

2. Upon fulfilment of the conditions referred to in Article 13(4), the bidding zone border EMS-RO shall be attributed to the ~~CE~~ CCR CE, simultaneously with the bidding zone borders of the ~~ECE~~ CCR East Central Europe (ECE).

3. The assignment of the bidding zone border OST-MEPSO to the CCR SEE shall be effective from the date of operation of the interconnector on the respective bidding zone border.

Article 11a
Capacity Calculation Region 10: East-central Europe (ECE)

Without prejudice to Article 7, the CCR East-Central Europe shall include the bidding zone borders listed below, and shown on map 10 included in the Appendix 1 to this document, as attributed to the referred TSOs:

a) Croatia – NOSBIH (HR – NOSBIH), Croatian Transmission System Operator Plc. and Nezavisni operator sistema u Bosni i Hercegovini;

b) Croatia – EMS (HR – EMS), Croatian Transmission System Operator Plc. and Elektromreža Srbije AD ;

c) EMS – Hungary (EMS – HU), Elektromreža Srbije AD and MAVIR Hungarian Independent Transmission Operator Company Ltd.;

d) EMS – NOSBIH (EMS – NOSBIH), Elektromreža Srbije AD (EMS) and Nezavisni operator sistema u Bosni i Hercegovini (NOS BiH);

e) CGES – NOSBIH (CGES – NOSBIH), Crnogorski elektroprenosni sistem AD and Nezavisni operator sistema u Bosni i Hercegovini; and

f) CGES – EMS (CGES – EMS), Crnogorski elektroprenosni sistem AD and Elektromreža Srbije AD.

Article 11b
Capacity Calculation Region 11: Italy-Montenegro (ITME)

The CCR ITME shall include the bidding zone border listed below, and shown on map 11 included in the Appendix 1 to this document, as attributed to the referred TSOs:

a) Italy CSUD and CGES (CSUD-CGES), TERNA Rete Elettrica Nazionale S.p.A and Crnogorski elektroprenosni sistem AD.

Article 11c
Capacity Calculation Region 12: Eastern Europe (EE)

The CCR EE shall include the bidding zone borders listed below, and shown on map 12 included in the Appendix 1 to this document, as attributed to the referred TSOs:

a) UA - MD (UA - MD), PJSC "National Power Company" "Ukrenergo" and S.E. "Moldelectrica";
b) UA - Poland (UA - PL), PJSC "National Power Company" "Ukrenergo" and Polskie Sieci Elektroenergetyczne S.A.;
c) UA - Slovakia (UA - SK), PJSC "National Power Company" "Ukrenergo" and Slovenská elektrizačná prenosová sústava, a.s.;
d) UA - Hungary (UA - HU), PJSC "National Power Company" "Ukrenergo" and MAVIR Hungarian Independent Transmission Operator Company Ltd.;
e) UA - Romania (UA - RO), PJSC "National Power Company" "Ukrenergo" and Compania Nationalã de Transport al Energiei Electrice "Transelectrica" S.A.; and
f) MD - Romania (MD - RO), S.E. "Moldelectrica" and Compania Nationalã de Transport al Energiei Electrice "Transelectrica" S.A.

TITLE 3
Final provisions

Article 12
Implementation date of CCRs

All TSOs shall apply the CCRs as described in Title 2 as soon as the decision has been taken by ACER in accordance with Article 9(6)(b) of the CACM Regulation and Article 5(2)(b) Regulation (EU) 2019/942.

Article 13
~~Future assessment~~Preconditions and future development

1. No later than three months after the implementation of the first version of the regional operational security coordination in accordance with Article 76(1) of Commission Regulation 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation (hereafter referred to as the "SO Regulation") in the ~~Core~~ CCR Core, all TSOs shall submit to ACER an assessment analysing alternative determinations of at least the CCRs Hansa, Nordic and Core in terms of:

   (a) efficiency of capacity calculation and allocation in all timeframes; and

   (b) efficiency of regional operational security coordination in accordance with Article 76(1) of the SO Regulation, coordinated redispatching and countertrading in accordance with Article 35 of the CACM Regulation and redispatching and countertrading cost sharing in accordance with Article 74 of the CACM Regulation and cross-regional operational security coordination in accordance with Article 75(1) of the SO Regulation.

2. In case this assessment pursuant to paragraph (1) identifies a more efficient alternative Determination of CCRs, all TSOs shall submit to ACER a proposal for amendment of the Determination of CCRs in accordance with Article 9(13) of the CACM Regulation by the same deadline as for the assessment.

3. The TSOs shall, in coordination with the competent regulatory authorities, work on the full merge of the CCRs Core and Italy North into the CCR ~~Central Europe~~CE for all CCR-related methodologies, using a stepwise approach and taking into account potential interdependencies with existing regional implementation projects under the applicable Union law. To this end, the TSOs shall submit to ACER corresponding amendments of the Determination of CCRs in accordance with Article 9(13) of the CACM Regulation, for each subsequent phase of the merger.

4. Not later than 12 months after the conditions under (a), (b) and (c) are fulfilled, all TSOs shall make a proposal for an amendment of this methodology, including all bidding zone borders and attributed TSOs listed in Article 11a and Article 11(1) ~~paragraph~~ (n) ~~-~~into the CCR C~~Central Europe~~E. The proposal shall

contain an implementation plan that enables gradual integration of these bidding zone borders into the CCR CE. The conditions are as follows:

(a) full implementation of the day-ahead capacity calculation processes according to Article 20(1) CACM and Article 20(1) of the EnC CACM Regulation ~~by~~in the CCR CE and CCR ECE as set out in Article 7 and Article 11a, respectively; and

(b) participation of the CCR ECE's TSOs in the single day-ahead coupling as set out in Article 8(1) CACM and Article 8(1) of the EnC CACM Regulation.

5. The proposal according to paragraph 4 shall additionally include an implementation plan, duly justified by an efficiency analysis, to include the bidding zone border between Italy and Montenegro in one of the neighbouring CCRs. When making the efficiency analysis, applying advanced hybrid coupling from the side of the CCR CE shall also be considered.

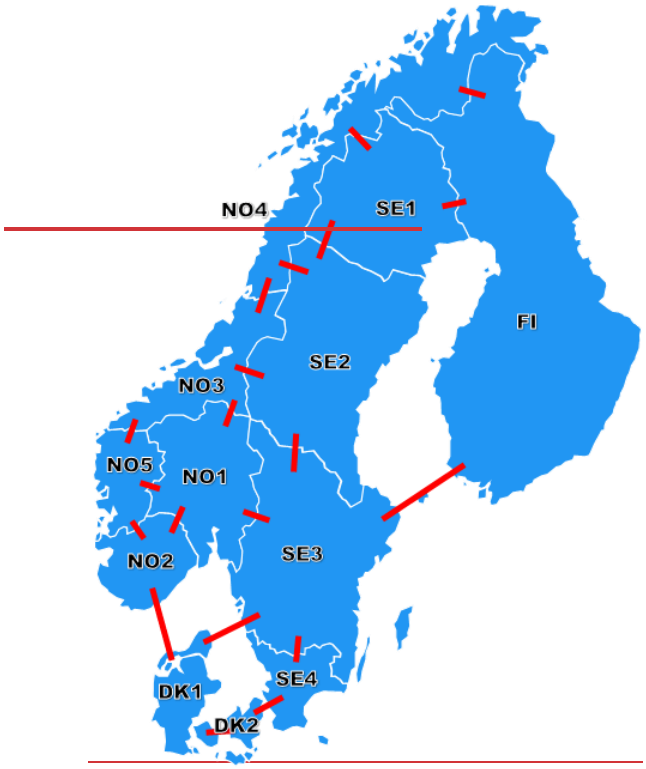
6. Not later than 12 months after the bidding zone borders referred to in paragraph 4 are included into CCR CE, all TSOs shall make a proposal for an amendment of this methodology, containing an implementation plan that enables gradual integration of the bidding zone borders and relevant TSOs from at least CCR SEE, into the CCR CE.

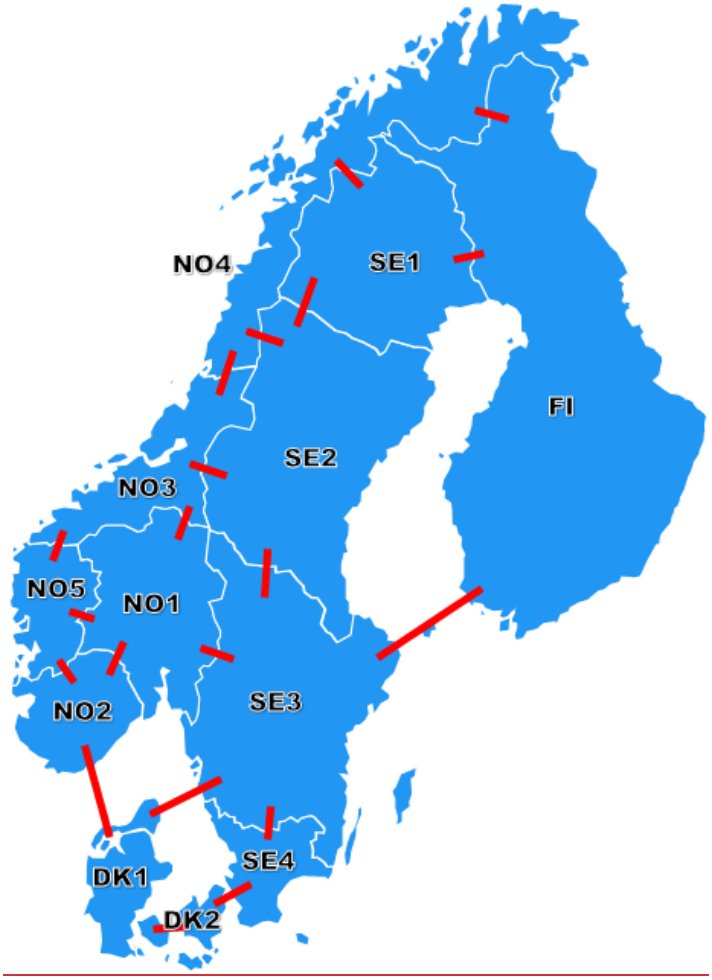
Article 14
Language

The reference language for this document shall be English. For the avoidance of doubt, where TSOs need to translate this document into their national language(s), in the event of inconsistencies between the English version published by all TSOs in accordance with Article 9(14) of the CACM Regulation and any version in another language, the relevant TSOs shall, in accordance with national legislation, provide the relevant national regulatory authorities with translation of this document.

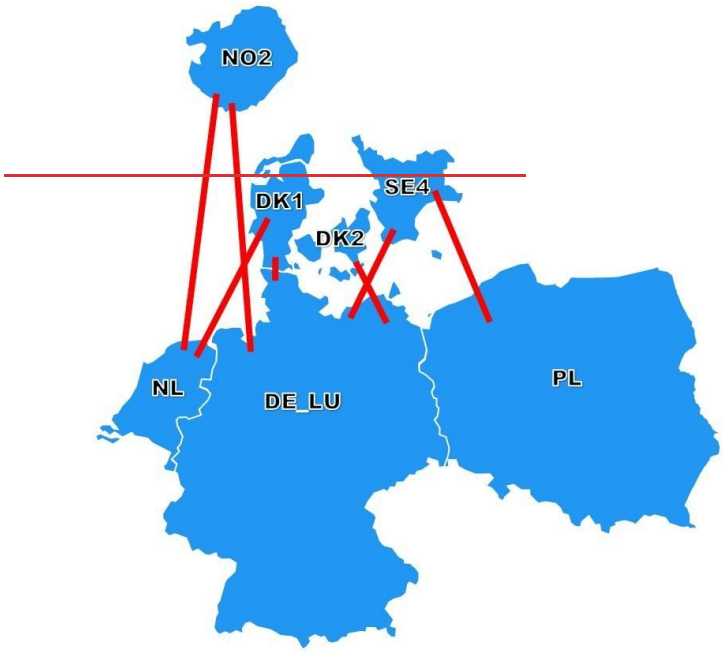
Appendix 1: Maps of the CCRs

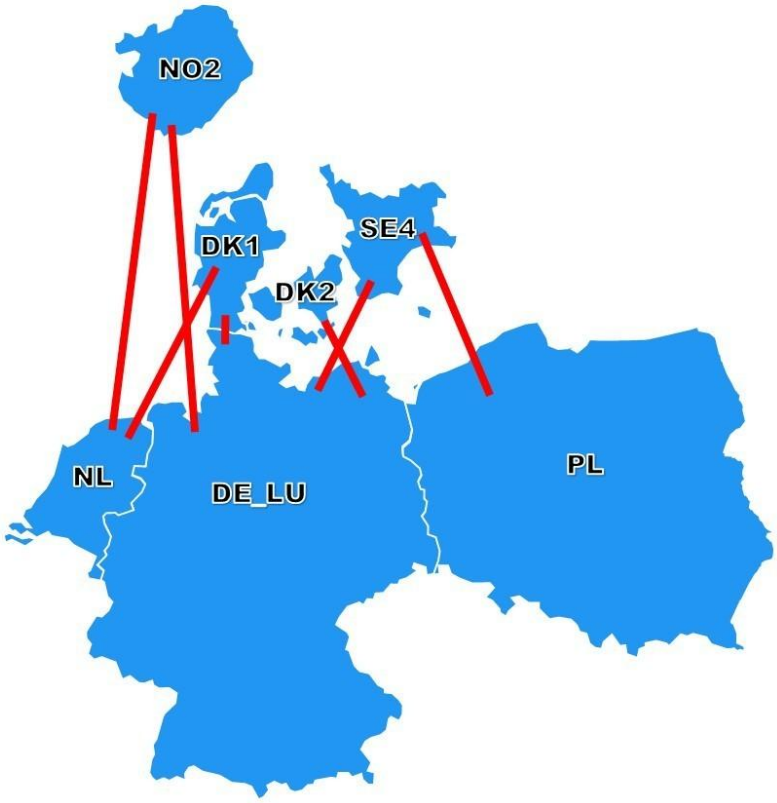
1. Capacity Calculation Region 1: Nordic



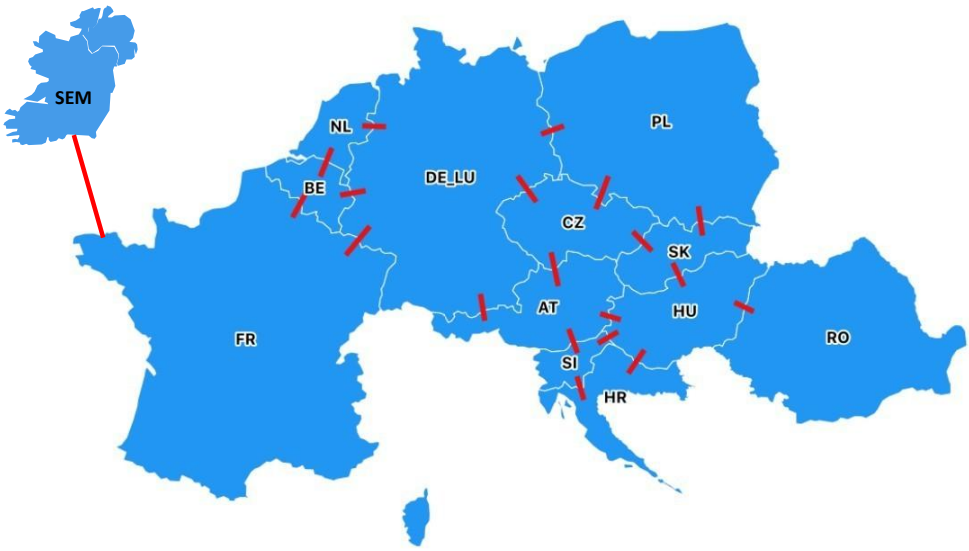

NO4
SE1
FI
SE2
NO3
NO5
NO1
NO2
SE3
SE4
DK1
DK2

2. Capacity Calculation Region 2: Hansa
Note: The DE/LU - PL, NL - DE/LU, NO2 - DK1, DK2 - SE4 and DK1 - DK2 bidding zone borders are not part of this CCR.

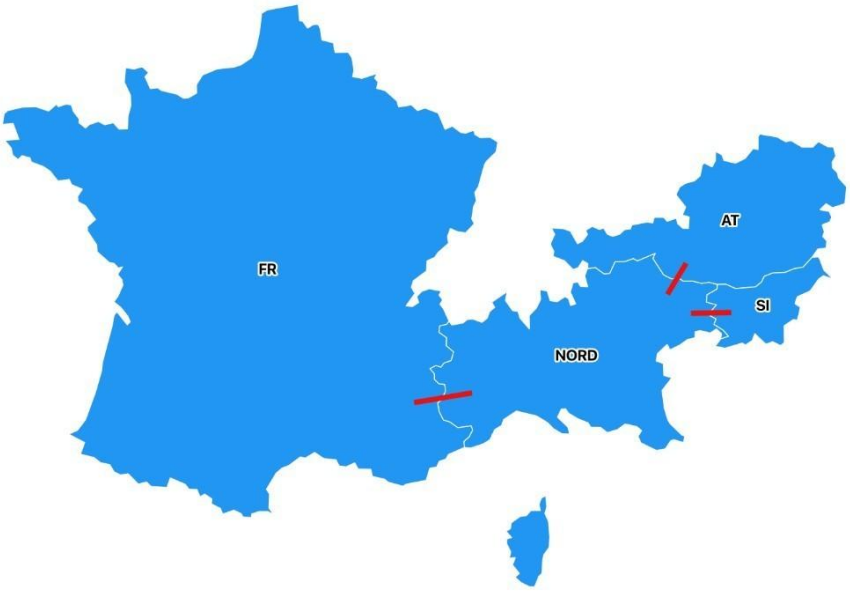



NO2
DK1
DK2
SE4
NL
DE_LU
PL

3. Capacity Calculation Region 3: Core



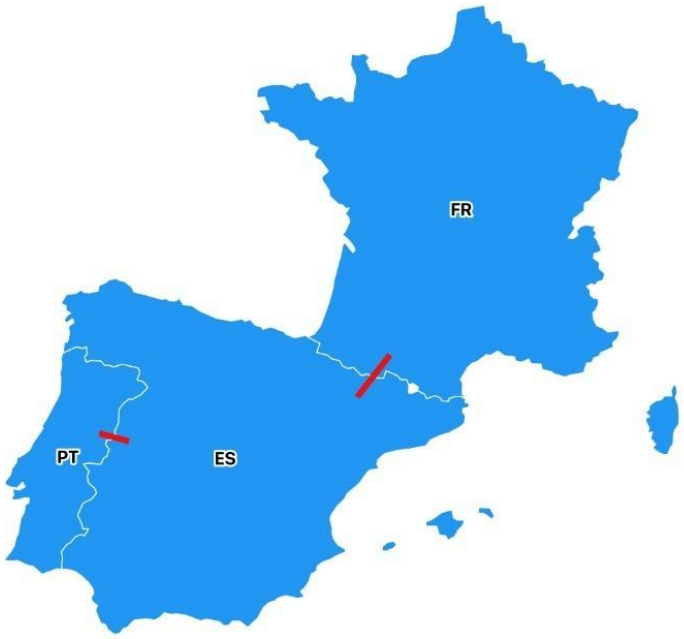
4. Capacity Calculation Region 4: Italy North
   Note: The AT-SI bidding zone border is not part of this CCR.



5. Capacity Calculation Region 5: Central Europe (CE)

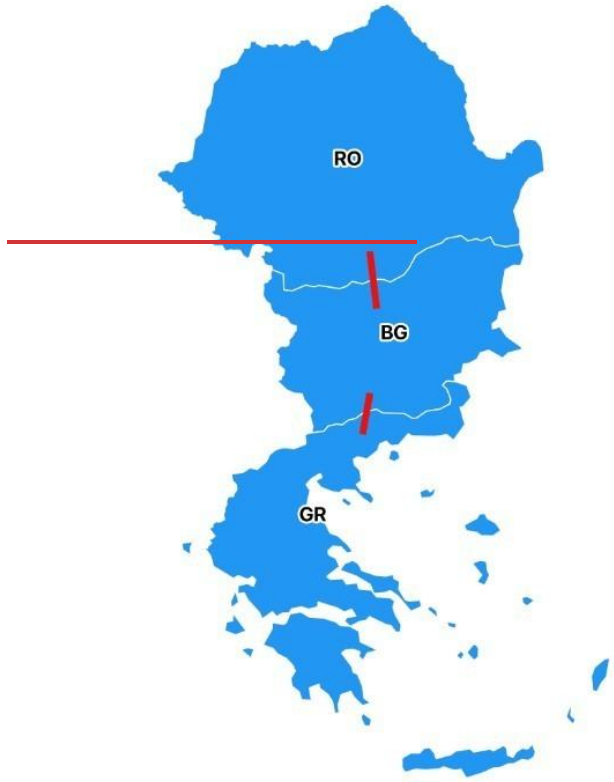
6. Capacity Calculation Region 6: Greece-Italy (GRIT)

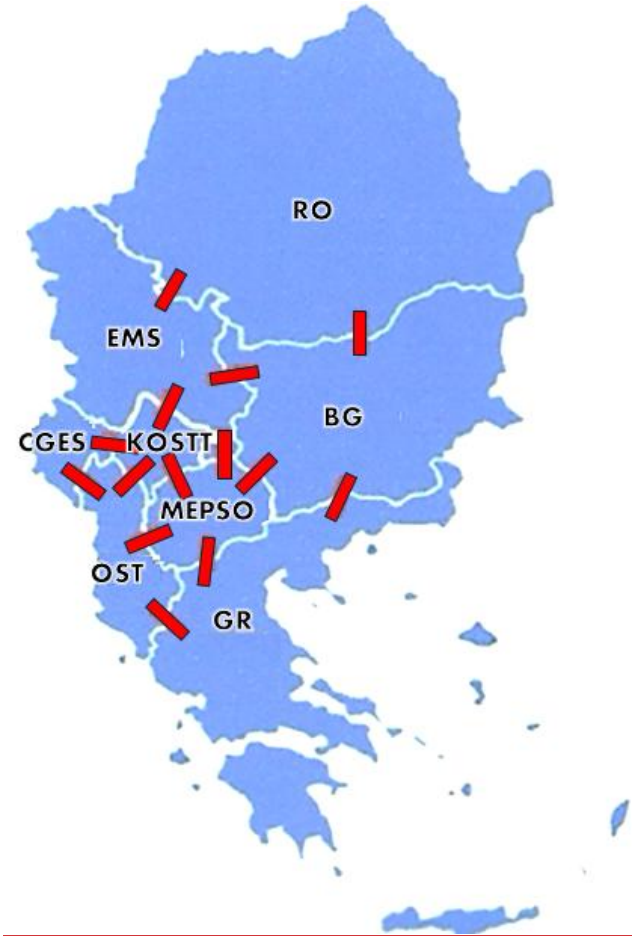
7. Capacity Calculation Region 7: South-west Europe (SWE)



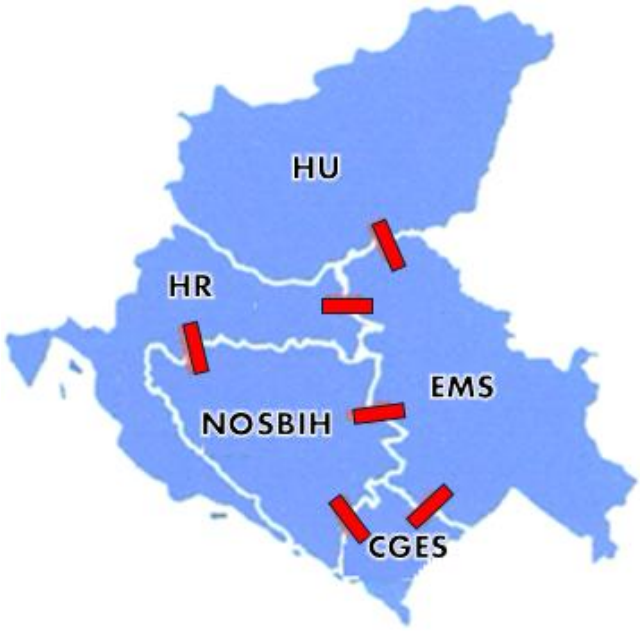
8. Capacity Calculation Region 8: Baltic
   Note: The SE4-PL bidding zone border is not part of this CCR.

9. Capacity Calculation Region 9: South-east Europe (SEE)

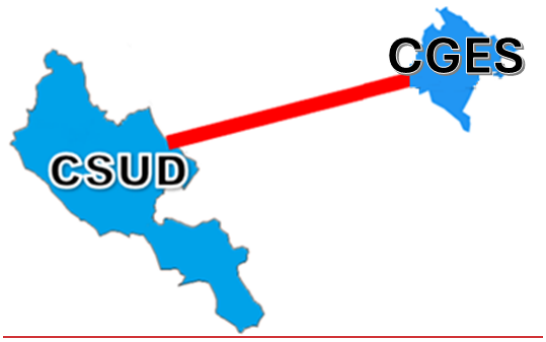



RO
EMS
BG
CGES
KOSTT
MEPSO
OST
GR

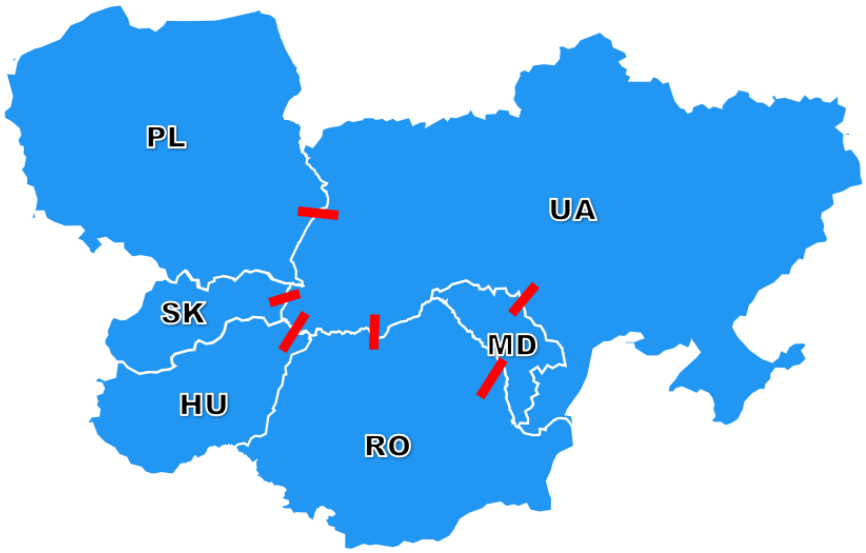
10. Capacity Calculation Region 10: East-Central Europe (ECE)



11. Capacity Calculation Region 11: Italy-Montenegro (ITME)



12. Capacity Calculation Region 12: Eastern Europe (EE)



Appendix 2: List of TSOs subject to the approved determination of CCRs methodology

- APG - Austrian Power Grid AG,
- VÜEN-Vorarlberger Übertragungsnetz GmbH
- Elia - Elia Transmission Belgium S.A.
- ESO – Electroenergien Sistemen Operator EAD
- HOPS d.d. - Croatian Transmission System Operator Plc.
- ČEPS - ČEPS, a.s.
- Energinet – Energinet
- Elering - Elering AS
- Fingrid - Fingrid OyJ
- Kraftnät - Kraftnät Åland Ab
- RTE - Réseau de Transport d'Electricité S.A
- Amprion - Amprion GmbH
- BCAB - Baltic Cable AB
- TransnetBW -TransnetBW GmbH
- TenneT GER - TenneT TSO GmbH
- 50Hertz - 50Hertz Transmission GmbH
- IPTO - Independent Power Transmission Operator S.A.,
- ~~MAVIR ZRt. MAVIR Magyar Villamosenergia-ipari Átviteli Rendszerirányító Zártkörűen Működő Részvénytársaság ZRt.~~
- MAVIR - Hungarian Independent Transmission Operator Company Ltd.
- EirGrid - EirGrid plc
- Terna - Terna SpA
- Augstsprieguma tïkls - AS Augstsprieguma tïkls
- LITGRID - LITGRID AB
- CREOS Luxembourg - CREOS Luxembourg S.A.
- TenneT TSO - TenneT TSO B.V.
- PSE - Polskie Sieci Elektroenergetyczne S.A.
- REN - Rede Eléctrica Nacional, S.A.
- Transelectrica - Compania Nationala de Transport al Energiei Electrice S.A.
- SEPS - Slovenská elektrizačná prenosovú sústava, a.s
- ELES - ELES,d.o.o
- ~~REE~~Red Eléctrica - Red Eléctrica de España S.A.U,
- Svenska Kraftnät - Affärsverket Svenska Kraftnät
- SONI - System Operator for Northern Ireland Ltd

Formatted: English (United Kingdom)