

**ACER Decision on the Amendment of the determination of CCRs: Annex III**

# **The determination of 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**

Consolidated text for information only:		
Determination of CCRs	ACER Decision No 04/2021	7 May 2021
Amendment	ACER Decision No 08/2023	31 March 2023

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## **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) 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 shall be taken into account in proposals for amendments to this document in accordance with Article 9(13) of the 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.
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 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 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.

2. The NO4-FI bidding zone border shall be included in the market coupling and capacity calculation process from the go-live of flow-based capacity calculation in CCR Nordic onwards.

#### **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 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. The CCR Core shall include the bidding zone borders listed below, and shown on map 3 included in the Appendix 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 Ltd. (HOPS d.o.o.) and ELES, d.o.o.;
  - p) Croatia - Hungary (HR - HU), Croatian Transmission System Operator Ltd. (HOPS d.o.o.) and MAVIR Hungarian Independent Transmission Operator Company Ltd.;
  - q) Romania - Hungary (RO - HU), Compania Națională 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.

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

### **Article 6** **Capacity Calculation Region 4: Italy North**

The CCR Italy North shall include the bidding zone borders listed below, and shown on map 4 included in the Appendix 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: Greece-Italy (GRIT)**

The CCR GRIT shall include the bidding zone borders listed below, and shown on map 5 included in the Appendix 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 8** **Capacity Calculation Region 6: South-west Europe (SWE)**

The CCR SWE shall include the bidding zone borders listed below, and shown on map 6 included in the Appendix 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 9**

### **Capacity Calculation Region 7: Baltic**

The CCR Baltic shall include the bidding zone borders listed below, and shown on map 7 included in the Appendix 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 10**

### **Capacity Calculation Region 8: South-east Europe (SEE)**

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

- a) Greece - Bulgaria (GR - BG), Independent Power Transmission Operator S.A. and Elektroenergien Systemen Operator (ESO) EAD; and
- b) Bulgaria - Romania (BG - RO), Elektroenergien Systemen Operator (ESO) EAD and Compania Națională de Transport al Energiei Electrice "Transelectrica" S.A..

## **TITLE 3**

### **Final provisions**

#### **Article 11**

#### **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 12**

#### **Future assessment**

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, 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.

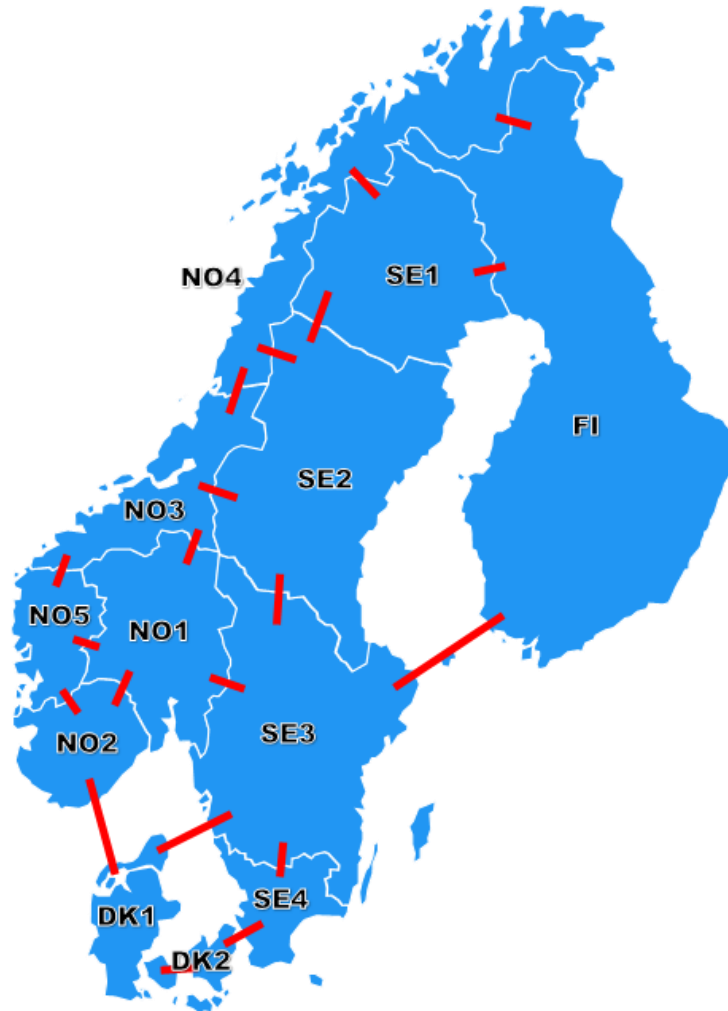
### **Article 13** **Language**

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: Maps of the CCRs

### 1. Capacity Calculation Region 1: Nordic



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.

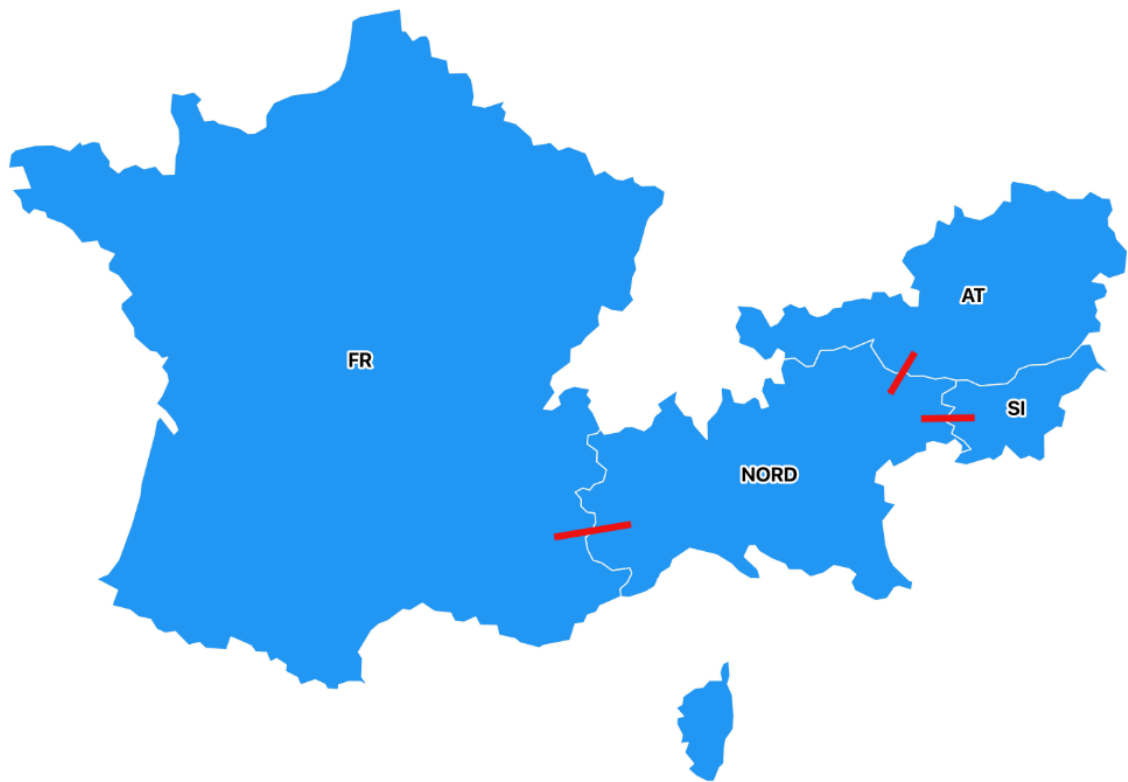


3. Capacity Calculation Region 3: Core



4. Capacity Calculation Region 4: Italy North

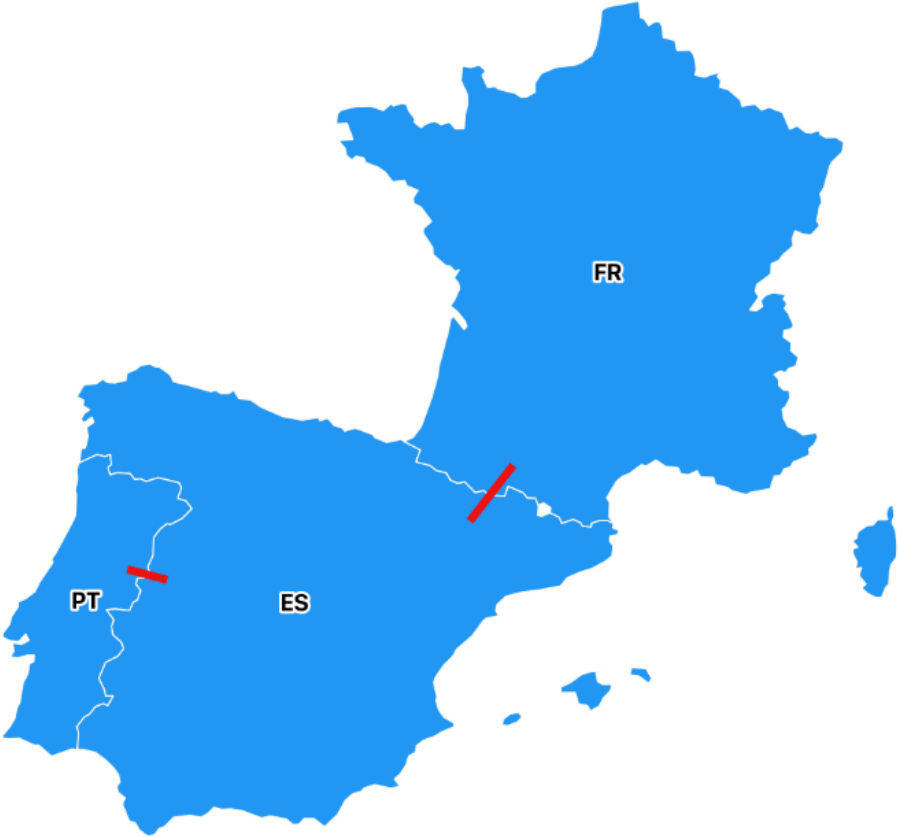
Note: The AT-SI bidding zone border is not part of this CCR.



5. Capacity Calculation Region 5: Greece-Italy (GRIT)

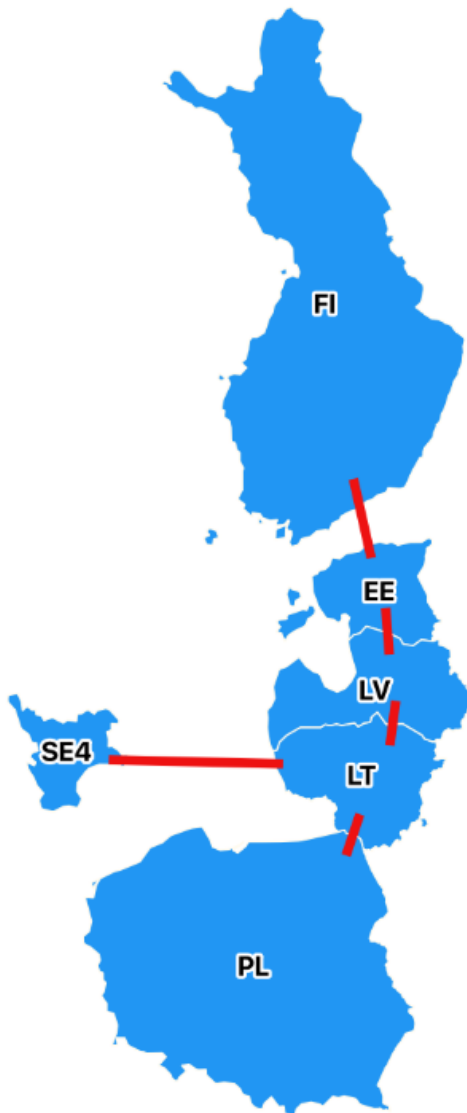


6. Capacity Calculation Region 6: South-west Europe (SWE)

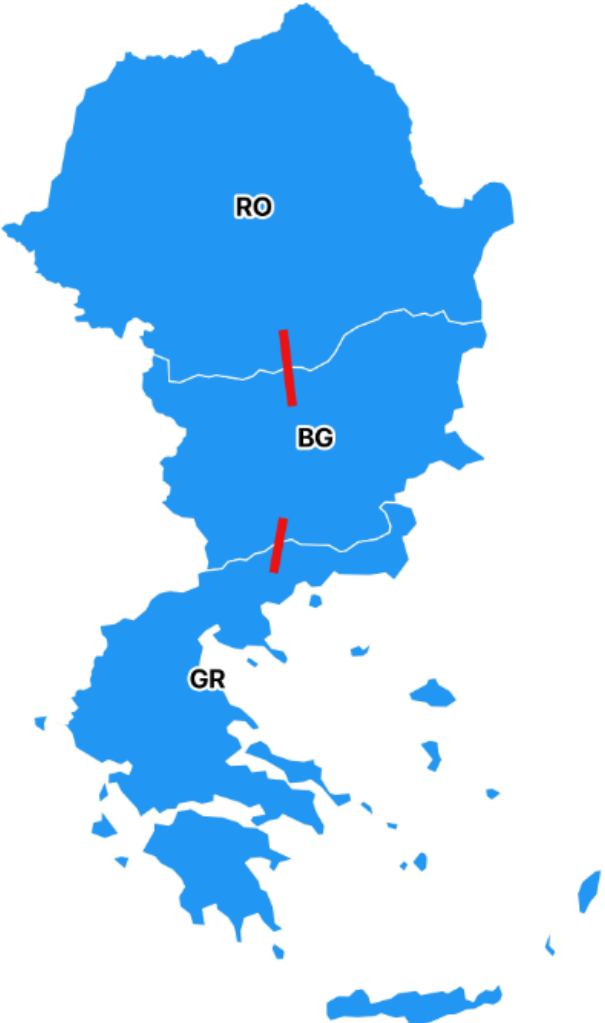


7. Capacity Calculation Region 7: Baltic

Note: The SE4-PL bidding zone border is not part of this CCR.



8. Capacity Calculation Region 8: South-east Europe (SEE)





## ANNEX 1

List of TSOs subject to the approved CCR methodology:

- APG – Austrian Power Grid AG
- VÜEN – Vorarlberger Übertragungsnetz GmbH
- Elia – Elia System Operator 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 Åland Ab
- RTE - Réseau de Transport d'Electricité, S.A
- Amprion – Amprion GmbH
- 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.
- EirGrid – EirGrid plc
- Terna – Terna SpA
- Augstsprieguma tīkls - AS Augstsprieguma tīkls
- LITGRID – LITGRID AB
- CREOS Luxembourg – CREOS Luxembourg S.A.
- TenneT TSO – TenneT TSO B.V.
- PSE – PSE S.A.
- REN - Rede Eléctrica Nacional, S.A.
- Transelectrica - C.N. Transelectrica S.A.
- SEPS - Slovenská elektrizačná prenosová sústava, a.s.
- ELES – ELES, d.o.o.
- REE - Red Eléctrica de España S.A.U.
- Svenska Kraftnät - Affärsverket Svenska Kraftnät
- SONI System Operator for Northern Ireland Ltd.