

**Annex I**

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**Definition of the Capacity Calculation Regions  
(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 (CACM  
Regulation)**

17 November 2016

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**TITLE 1**  
**General Provisions**

**Article 1**  
**Subject matter and scope**

1. The CCRs cover the following:
  - a) all existing bidding zones borders within and between Member States, to which the CACM Regulation applies;
  - b) future bidding zone borders due to interconnections operated by legal entities certified as TSOs which are under construction at the time of the approval of this proposal and planned to be commissioned before 2018; and
  - c) the Germany/Luxembourg – Austria bidding zone border (DE/LU - AT) in accordance with Article 5 of this document.
2. Based on the CACM Regulation, the following terms and conditions or methodologies shall be developed in each CCR and submitted for approval to the competent regulatory authorities:
  - a) the common capacity calculation methodology in accordance with Article 20 of the CACM Regulation;
  - b) the methodology for coordinated redispatching and countertrading in accordance with Article 35(1) of the CACM Regulation;
  - c) the fallback procedures in accordance with Article 44 of the CACM Regulation; and
  - d) the redispatching or countertrading cost sharing methodology in accordance with Article 74(1) of the CACM Regulation.
3. Any changes in the bidding zone border configuration in the Member States shall be taken into account for amendment proposals concerning 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.
2. In this document, unless the context requires otherwise:
  - a) the singular indicates the plural and vice versa;
  - b) the table of contents, headings and examples 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; and
  - e) any reference to the bidding zones of Germany/Luxembourg (DE/LU) or Austria (AT) for the definition of the bidding zone borders in this document shall also be read as the bidding zone of Germany/Austria/Luxembourg (DE/AT/LU) for the purposes of capacity allocation on the affected bidding zone borders until the requirements described in Article 5(3) of this document are fulfilled.

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**

The CCR Nordic shall include the bidding zone borders listed below and shown on the map No 1 included in the Appendix to this document as attributed to the referred TSOs:

- a) Denmark 1 - Sweden 3 (DK1-SE3), Energinet.dk and Svenska kraftnät;
- b) Denmark 2 - Sweden 4 (DK2-SE4), Energinet.dk and Svenska kraftnät;
- c) Denmark 1 - Denmark 2 (DK1-DK2), Energinet.dk;
- 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 and Fingrid Oyj; and
- h) Sweden 1 - Finland (SE1-FI), Svenska kraftnät and Fingrid Oyj.

#### **Article 4**

#### **Capacity Calculation Region 2: Hansa**

The CCR Hansa shall include the bidding zone borders listed below and shown on the map No 2 included in the Appendix to this document as attributed to the referred TSOs:

- a) Denmark 1 - Germany/Luxembourg (DK1-DE/LU), Energinet.dk and TenneT TSO GmbH;
- b) Denmark 2 - Germany/Luxembourg (DK2-DE/LU), Energinet.dk and 50Hertz Transmission GmbH; and
- c) Sweden 4 - Poland (SE4 – PL), Svenska Kraftnät and PSE S.A..

#### **Article 5**

#### **Capacity Calculation Region 3: Core**

1. The CCR Core shall include the bidding zone borders listed below and shown on the map No 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 System Operator NV/SA;
- b) Belgium - Netherlands (BE - NL), Elia System Operator 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. and TenneT TSO GmbH and Amprion GmbH; and
- e) Belgium - Germany/Luxembourg (BE-DE/LU), Elia System Operator NV/SA and Creos Luxembourg S.A..
- f) Germany/Luxembourg - Poland (DE/LU - PL), 50Hertz Transmission GmbH and PSE 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 PSE 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), PSE S.A. and Slovenská elektrizačná prenosová sústava, a.s.;
  - o) Croatia - Slovenia (HR - SI), Croatian Transmission System Operator Ltd. (HOPS d.o.o.), ELES, d.o.o.;
  - p) Croatia - Hungary (HR - HU), Croatian Transmission System Operator Ltd. (HOPS d.o.o.), MAVIR Hungarian Independent Transmission Operator Company Ltd.;
  - q) Romania - Hungary (RO - HU), Compania Națională de Transport al Energiei Electrice "Transelectrica" S.A., MAVIR Hungarian Independent Transmission Operator Company Ltd.;
  - r) Hungary - Slovenia (HU - SI), MAVIR Hungarian Independent Transmission Operator Company Ltd., 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 BE-DE/LU to the CCR Core shall be effective from the date of operation of the interconnection on this bidding zone border.
  3. For the avoidance of doubt, capacity allocation on the DE/LU - AT border shall be introduced in line with an implementation calendar to be agreed upon by the relevant regulatory authorities and TSOs and at the latest when implementation of flow-based capacity calculation takes place in the CCR Core in accordance with the CACM Regulation.
  4. The assignment of the bidding zone border HU-SI to the CCR Core shall be effective from the date of operation of the interconnection on this 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 the map No 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 the map No 5 included in the Appendix to this document as attributed to the referred TSOs:

- a) Italy BRNN - Greece (BRNN - 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 BRNN (SUD - BRNN), TERNA Rete Elettrica Nazionale S.p.A.;
- h) Italy SUD - Italy FOGN (SUD - FOGN), TERNA Rete Elettrica Nazionale S.p.A.;
- i) Italy SUD - Italy ROSN (SUD - ROSN), TERNA Rete Elettrica Nazionale S.p.A.;
- j) Italy ROSN - Italy SICI (ROSN - SICI), TERNA Rete Elettrica Nazionale S.p.A.; and
- k) Italy SICI - Italy PRGP (SICI - PRGP), 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 the map No 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: Ireland and United Kingdom (IU)**

The CCR IU shall include the bidding zone border between Great Britain and Single Energy Market in Ireland and Northern Ireland attributed to the EirGrid, Moyle Interconnector (Moyle), National Grid Electricity Transmission plc (NGET) and SONI. The IU CCR is shown on the map No 7 included in the Appendix to this document.

### **Article 10**

#### **Capacity Calculation Region 8: Channel**

The CCR Channel shall include the bidding zone borders listed below and shown on the map No 8 included in the Appendix to this document as attributed to the referred TSOs:

- a) France - Great Britain (FR - GB), RTE - Réseau de transport d'électricité, National Grid Electricity Transmission plc (NGET) and National Grid Interconnectors Limited (NGIC); and
- b) Netherlands - Great Britain (NL - GB), BritNed Development Limited (BritNed) and TenneT TSO B.V..

### **Article 11**

#### **Capacity Calculation Region 9: Baltic**

The CCR Baltic shall include the bidding zone borders listed below and shown on the map No 9 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; and
- 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 PSE S.A..

**Article 12**  
**Capacity Calculation Region 10: South-east Europe (SEE)**

The CCR SEE shall include the bidding zone borders listed below and shown on the map No 10 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 13**  
**Implementation date of CCRs**

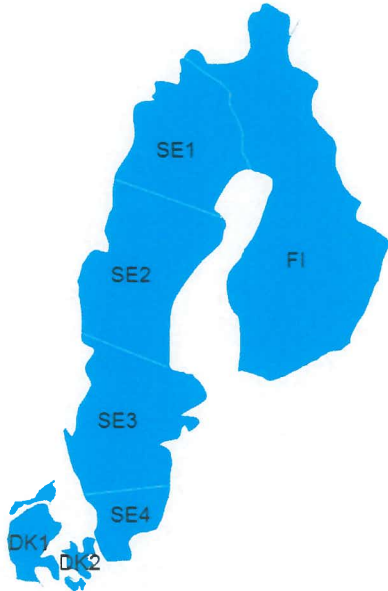
The TSOs shall apply the CCRs as described in Title 2 as soon as the decision has been taken by the Agency in accordance with Article 9(11) and 9(12) of the CACM Regulation.

**Article 14**  
**Language**

The official 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 TSOs in accordance with Article 9(14) of the CACM Regulation and any version in another language, the interpretation of the English version published by TSOs shall prevail.

## Appendix: Maps of the proposed CCRs

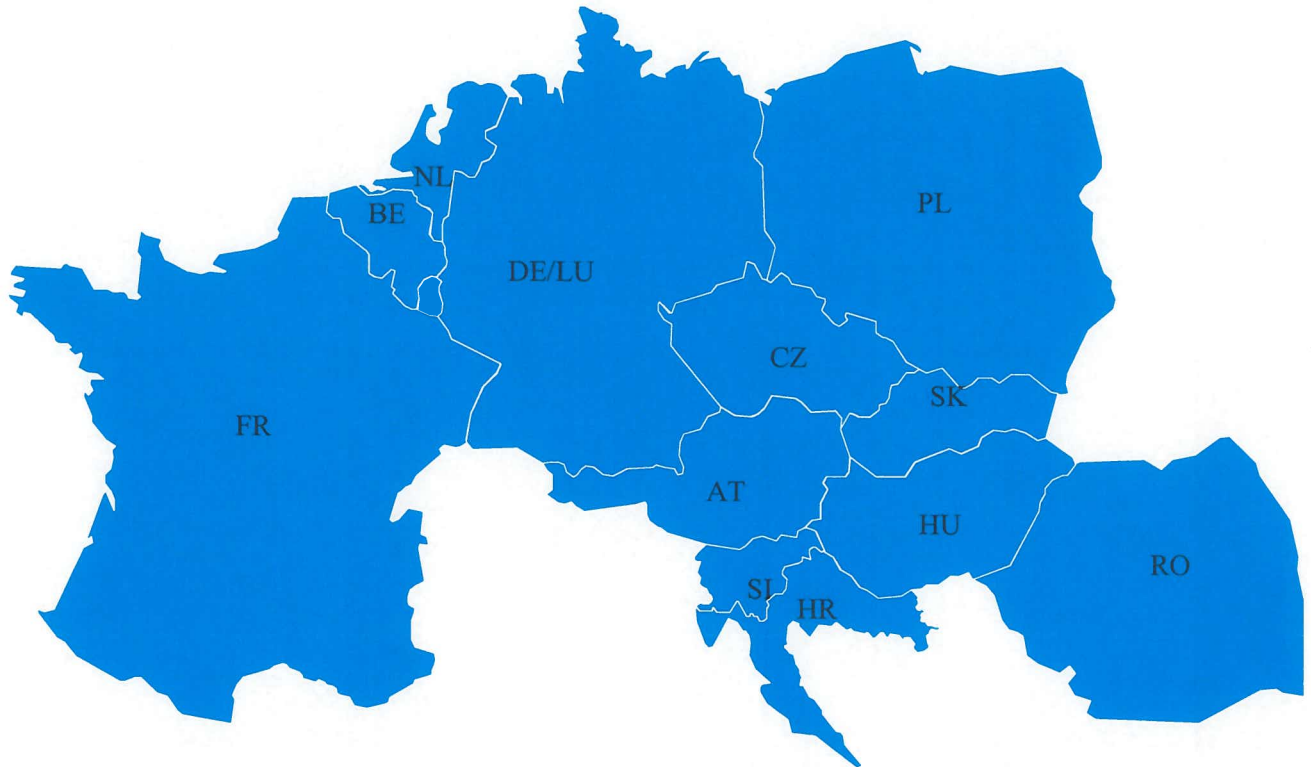
### 1. Capacity Calculation Region 1: Nordic



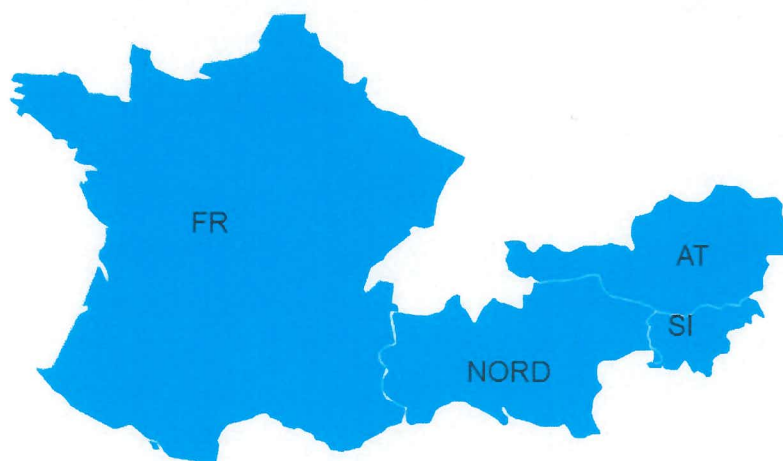
### 2. Capacity Calculation Region 2: Hansa (PL-DE/LU, DK2-SE4 and DK1-DK2 bidding zone borders are not part of this CCR)



3. Capacity Calculation Region 3: Core



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

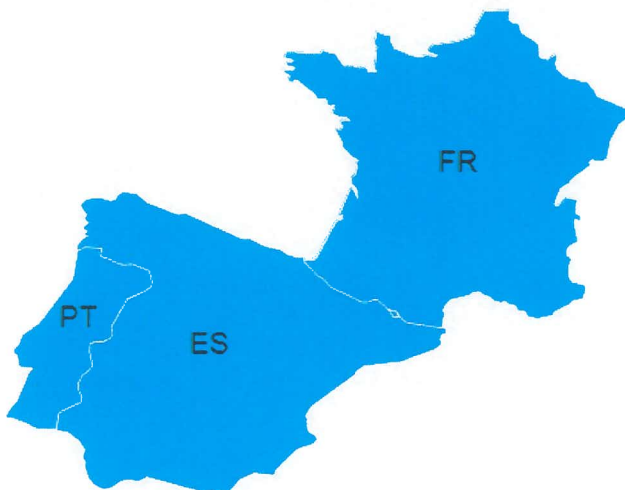




5. Capacity Calculation Region 5: Greece-Italy (GRIT)



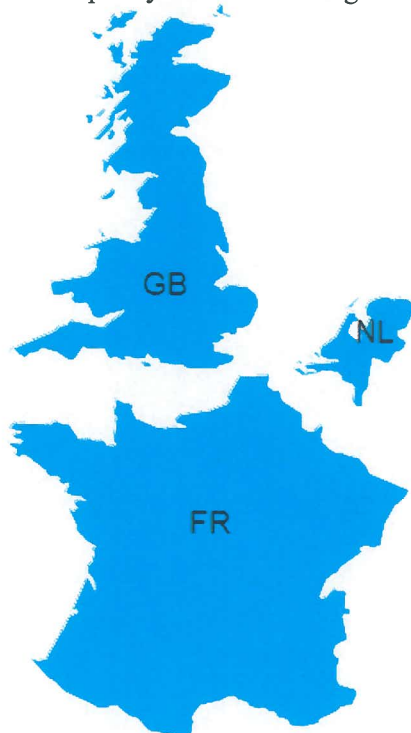
6. Capacity Calculation Region 6: South-west Europe (SWE)



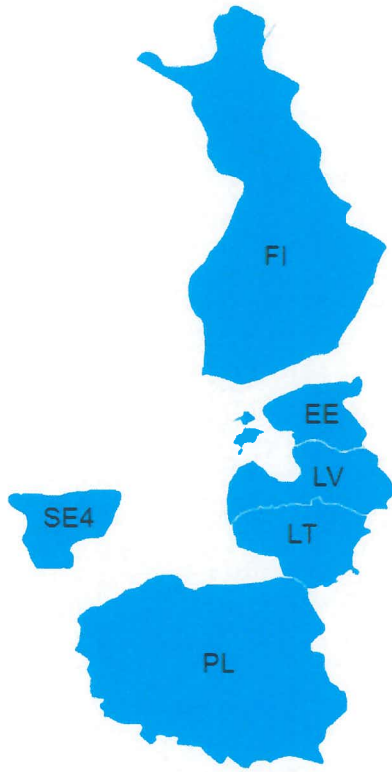
7. Capacity Calculation Region 7: Ireland and United Kingdom (IU)



8. Capacity Calculation Region 8: Channel



9. Capacity Calculation Region 9: Baltic (SE4-PL bidding zone border is not part of this CCR)



10. Capacity Calculation Region 10: South-east Europe (SEE)

