

---

**Proposal for Multiple NEMO Arrangement (MNA) for  
the Austrian bidding zone in accordance with Article  
45 and Article 57 of the Commission Regulation (EU)  
2015/1222 of 24 July 2015 establishing a Guideline on  
Capacity Allocation and Congestion Management**

---

28.08.2018



**Table of Content**

Whereas..... 2

TITLE 1 General Provisions ..... 4

    Article 1 Subject matter and scope ..... 4

    Article 2 Definitions and interpretation..... 4

    Article 3 Compliance of the MNA with the objectives of CACM Regulation..... 5

TITLE 2 Multiple NEMO Arrangements (MNA)..... 6

    Chapter 1 General provisions ..... 6

        Article 4 Basic principles ..... 6

        Article 5 NEMO Trading Hub..... 6

        Article 6 Shipping and Physical Settlement ..... 7

        Article 7 Single Day-Ahead Coupling..... 8

        Article 8 Single Intraday Coupling..... 8

    Chapter 2 Data exchange with the MCO-function..... 8

        Article 9 Date exchange for Single Day-Ahead Coupling ..... 8

        Article 10 Data exchange for Single intraday coupling..... 9

    Chapter 3 Shipping, clearing and settlement arrangements with MNA..... 10

        Article 11 General principles..... 10

        Article 12 Preferred Shipping Agent ..... 11

        Article 13 Scheduled Exchange Calculation ..... 11

        Article 14 Intra-zonal shipping..... 11

        Article 15 Cross-Zonal Shipping for SDAC..... 12

        Article 16 Cross-Zonal Shipping for SIDC ..... 13

    Chapter 4 Fallback arrangements ..... 13

        Article 17 General provisions..... 13

        Article 18 Decoupling cases with MNA..... 14

    Chapter 5 Price Reference for the Austrian Bidding Zone ..... 15

        Article 19 Reference price for SDAC..... 15

    Chapter 6 Contractual arrangements ..... 16

        Article 20 General provisions..... 16

TITLE 3 Final Provisions..... 17

    Article 21 Implementation..... 17

    Article 22 Language ..... 17

THE AUSTRIAN TRANSMISSION SYSTEM OPERATOR, TAKING INTO ACCOUNT THE FOLLOWING,

**Whereas**

- (1) Commission Regulation (EU) 2015/1222 establishes a guideline on capacity allocation and congestion management (hereinafter “CACM Regulation”) which entered into force on 14 August 2015.
- (2) 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 Transmission System Operators (hereinafter “TSO”) to cooperate on a pan-European level and across bidding zone borders. CACM Regulation helps in achieving a fully integrated electricity market for Europe by setting out the rules that will introduce a single approach to cross-border electricity trading in Europe.
- (3) This document is a proposal by Austrian Power Grid AG (hereinafter referred to as “APG”) regarding cross-zonal capacity allocation and other necessary arrangements in case more than one NEMO offers trading services (hereinafter “Multiple NEMO Arrangement”) in the Austrian bidding zone, in accordance with Article 45 and Article 57 of CACM Regulation.
- (4) Congestion management will be implemented on the German/Austria bidding zone border as of 1 October 2018. From this date on, Austria will form its own bidding zone.
- (5) The Multiple NEMO Arrangement for the bidding zone Germany/Luxemburg/Austria, in accordance with Article 45 and Article 57 of CACM Regulation was submitted by APG to E-Control Austria (ECA) on 13 December 2016 and approved by E-Control Austria on 9 February 2017.
- (6) This Multiple NEMO Arrangement will, upon approval by ECA, replace the Multiple NEMO Arrangement for the bidding zone Germany/Luxemburg/Austria as of 1 October 2018.
- (7) According to Recital (14) of CACM Regulation, for efficiency reasons and in order to implement single day-ahead and intraday coupling as soon as possible, single day-ahead and intraday coupling should make use of existing market operators and already implemented solutions where appropriate, without precluding competition from new operators.
- (8) This proposal is therefore built upon the currently known Multi Region Coupling (MRC) project (for the day-ahead timeframe) and Cross Border Intraday (XBID) project (for the intraday timeframe) functionalities.
- (9) TSOs shall, where necessary, establish cross zonal capacity allocation and other arrangements in accordance with Articles 45 and 57.
- (10) According to article 7(1) of CACM Regulation, Nominated Electricity Market Operators (hereinafter “NEMO”) shall act as market operators in national or regional markets to perform in cooperation with TSOs single day-ahead and intraday coupling. Their tasks consists notably of “receiving orders from market participants, having overall responsibility for matching and allocating orders in accordance with the single day-ahead and intraday cou-

pling results, publishing prices and settling and clearing the contracts resulting from the trades according to relevant participant agreements and regulations”.

- (11) All NEMOs have submitted a plan indicating the methods for implementation and joint exercise of the MCO functions according to Article 7(3) of the CACM Regulation, hereinafter “MCO plan”, which was approved by all NRAs in June 2017.
- (12) Article 77(2) of CACM Regulation requires central counter parties (CCPs) and shipping agents to seek efficient clearing and settlement arrangements avoiding unnecessary costs and reflecting the risk incurred. Furthermore the cross-border clearing and settlement arrangements shall be subject to approval by the relevant national regulatory authorities.
- (13) Article 7(1)(g) of CACM Regulation appoints the NEMOs to act as central counter party for the exchange of energy resulting from single day-ahead and intraday coupling.
- (14) Article 68(1) of CACM Regulation requires central counter parties to ensure clearing and settlement of all matched orders in a timely manner and to act as counter party to market participants for all their trades with regard to the financial rights and obligations arising from these trades.
- (15) Article 68(3) of CACM Regulation requires central counter parties to act as counter party to each other for the exchange of energy between bidding zones with regard to the financial rights and obligations arising from these energy exchanges.
- (16) Article 68(6) of CACM Regulation states that a shipping agent may act as a counter party between different central counter parties for the exchange of energy, if the parties concerned conclude a specific agreement to that effect.
- (17) According to Article 77(1) of CACM Regulation all clearing and settlement costs incurred by central counter parties and shipping agents shall be recoverable by means of fees or other appropriate mechanisms if they are reasonable and proportionate.
- (18) In accordance with Article 4 of CACM Regulation, three entities have been designated as NEMOs in Austria.
- (19) In order to ensure efficient implementation and operation of this proposal, alignment between TSOs on at least a regional level was required. The preferred shipper approach, detailed in article 12 of this proposal, is the result of this coordination with the neighbouring TSOs.

SUBMITS THE FOLLOWING PROPOSAL TO E-CONTROL AUSTRIA:

---

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

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

1. This document is the proposal of APG for the involvement of more than one nominated electricity market operator (NEMO) in the Single Day-ahead Coupling (SDAC) and Single Intraday Coupling (SIDC) within the Austrian Bidding Zone (hereafter referred to as “Multiple NEMO Arrangement” or “MNA”). With this proposal APG fulfils the obligations of article 45 and 57 of CACM Regulation to enable the participation of all current and future designated NEMOs operating in the Austrian Bidding Zone in the SDAC and the SIDC.
2. Congestion Management shall be implemented on the German/Austrian bidding zone border as of 1 October 2018. From this date on, Austria will form its own bidding zone.
3. Therefore, APG has to submit a Multiple NEMO Arrangement for the Austrian bidding zone, to be effective as of 1 October 2018. This Multiple NEMO Arrangement will replace the previously approved Multiple NEMO Arrangement for the common bidding zone Germany/Austria/Luxembourg.
4. The Multiple NEMO Arrangement for the Austrian bidding zone is based on the approved Multiple NEMO Arrangement for the common bidding zone Germany/Austria/Luxembourg and aligned with the approved Multiple NEMO Arrangement of the bidding zones France, Belgium and the Netherlands.
5. This proposal is subject to approval in accordance with Article 9(8)(d) of CACM Regulation.
6. In line with the CACM Regulation, this MNA is based on the cooperation with the NEMOs designated in the Austrian Bidding Zone. APG informed the currently designated NEMOs about the MNA and consulted the contents with them.
7. For the avoidance of any doubt, the capitalised terms used in this document which have not been defined in Article 2 shall have the meaning set forth in the CACM Regulation.

**Article 2**  
**Definitions and interpretation**

1. For the purposes of this MNA, terms used in this document shall have the meaning of the definitions included in Article 2 of the CACM Regulation.
2. In addition, the following definitions shall apply:
  - a. “**Austrian NEMO**” means a NEMO either designated in Austria or designated in another Member State and allowed to perform tasks related to single day-ahead and/or single intraday coupling in the Austrian bidding zone.
  - b. “**NEMO Trading Hub**” means for the day-ahead and/or intraday timeframe(s) the place where a NEMO collects the bids of its members, on a bidding zone level (or, if

- applicable, scheduling area).
- c. **“Bidding Zone Reference Day-Ahead Price”** means a reference price for the day-ahead timeframe, calculated by the TSO, in case of different NEMO Hub prices in the Bidding Zone.
  - d. **“Single Day-ahead Price”** means the price resulting from the Market Coupling Operator (MCO)-function for the day-ahead timeframe, i.e. the unrounded price prior to the application of rounding rules to calculate the price for individual NEMO Trading Hubs.
  - e. **“External Commercial Trade Schedule”** means a schedule representing the commercial exchange of electricity between market participants in different Bidding Zones (or Scheduling Areas), as defined in Commission Regulation (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation.
  - f. **“Internal Commercial Trade Schedule”** means a schedule representing the commercial exchange of electricity within a Bidding Zone (or Scheduling Area) between different market participants, as defined in Commission Regulation (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation.

### Article 3

#### Compliance of the MNA with the objectives of CACM Regulation

1. The proposed MNA in the Austrian Bidding Zone contributes to fulfilling the achievement of the objectives of Article 3 of the CACM Regulation.
2. The Regulation aims at:
  - a. *promoting effective competition in the generation, trading and supply of electricity;*
    - i. The implementation of the MNA described in this document will enable several NEMOs to operate in the Austrian Bidding Zone and promote the competition in the generation, trading and supply of energy.
  - b. *ensuring operational security;*
    - i. By choosing a single data exchange point for pre- and post-coupling arrangements, additional interfaces are minimized and thus potential risks of errors are reduced. Apart from that, in line with the approved MCO plan, date 13 April.2017, the proposal foresees the possibility for each NEMO to have access to the Cross Zonal Capacities and Allocation Constraints from a single data exchange point and hence to serve as back up if the responsible NEMO for the transfer of input and output data at the respective point in time is affected by technical issues.
    - ii. Furthermore, the proposed solution for the Physical Settlement ensures the necessary operational security standards in line with Regulation 2017/1485.
  - c. *optimising the calculation and allocation of cross-zonal capacity;*
    - i. The MNA proposal allows for an efficient consideration of several NEMOs in one Bidding Zone without hampering the capacity calculation and allocation processes.
  - d. *ensuring fair and non-discriminatory treatment of TSOs, NEMOs, the Agency, regulatory authorities and market participants;*
    - i. The TSOs consider the proposed solution as a fair and transparent, arrangement, balancing the interests of market parties, NEMOs and APG and facilitating NEMO-competition within the Austrian Bidding Zone. To ensure this during the

drafting process the feedback of the NEMOs has been evaluated by APG and taken into account where reasonable.

- e. *ensuring and enhancing the transparency and reliability of information;*
  - i. Using one single data exchange point for the data exchange provides every NEMO with the possibility to have access to cross zonal capacities and allocation constraints which enhances transparency.
- f. *respecting the need for a fair and orderly market and fair and orderly price formation;*
  - i. The MNA is linked to the MCO plan carried out jointly by all NEMOs. In this respect the present MNA proposal foresees unrestricted price formation within the Bidding Zone. This requirement, together with the fall back solutions, enable a fair and orderly market and price formation.
- g. *creating a level playing field for NEMOs;*
  - i. In order to ensure a level playing field and non-discriminatory treatment of competitors, a flexible solution for MNA has been developed. That ensures a fair and equal treatment of the NEMOs within the operational processes and facilitates their participation in the DA and ID market coupling on equal terms. The proposed solutions allow for one as well as multiple NEMOs being operational in the Austrian Bidding Zone.

## **TITLE 2**

### **Multiple NEMO Arrangements (MNA)**

#### **Chapter 1**

#### **General provisions**

#### **Article 4**

#### **Basic principles**

1. The NEMOs shall ensure an unrestricted price formation between the NEMO Hubs within the Austrian Bidding Zone in the Single Day-ahead Coupling and in the Single Intraday Coupling, taking into account the principle of unlimited transmission capacity. No restrictions are applied for Bidding Zone internal exchange (=Intra-Zonal Shipping Links).
2. In accordance with Article 46(1) and Article 58(1) of CACM Regulation, the Coordinated Capacity Calculators (hereinafter “CCCs”) are responsible to provide cross-zonal capacity and allocation constraints to the relevant NEMOs for SDAC and SIDC processes.
3. In accordance with Article 7(2)(b) of CACM Regulation, NEMOs are responsible for processing input data on cross-zonal capacity and allocation constraints provided by the CCCs.
4. In accordance with Article 48(1)(a) and Article 60(1)(b) of CACM Regulation, NEMOs are responsible to provide the day-ahead and intraday coupling results to all TSOs.
5. Article 68 (6) of the CACM Regulation related to the Clearing and Settlement provides guidance in case a Shipping Agent is involved in the exchange of energy between Bidding Zones.
6. The Shipping solution for SDAC and SIDC proposed by APG in this MNA, follows Article 7(1) (g) of CACM Regulation.

#### **Article 5**

#### **NEMO Trading Hub**

1. In the Austrian Bidding Zone the term NEMO Trading Hub is defined according to the definition in Article 2.
2. A NEMO Trading Hub is therefore defined by the operating NEMO and the balance group of its CCP that constitutes the place of physical fulfilment. Several NEMO Trading Hubs could be operated by different NEMOs in the same Bidding Zone.

### **Article 6** **Shipping and Physical Settlement**

1. In line with Article 7(1) (g) of CACM Regulation, it is a NEMO task to act as Central Counter Party (CCP) and according to its definition, it is a CCP task to organise the exchange of energy resulting from SDAC and SIDC with other CCPs or Shipping Agents.
2. In line with Article 8 (2) (1) of the CACM Regulation, it is a TSOs' task to act as Shipping Agents, where so agreed.
3. Based on Article 68 (6) of CACM Regulation, a Shipping Agent may act as a counter party between different CCPs for the exchange of energy, if the parties concerned conclude a specific agreement to that effect and where this task is not performed according to Article 68 (3) by the CCPs.
4. In accordance with the CACM Regulation, the market coupling operator (MCO) performs an anonymous matching of orders received by the NEMOs, and simultaneously allocates cross-zonal capacity. The volumes of all matched orders therefore have to be balanced within each market time unit.
5. The settlement of any trade requires the transfer of Net Positions by way of NEMOs, or as the case may be, the entity appointed by a NEMO to act as its CCP, making the corresponding nominations to APG ("**Physical Settlement**") and the financial settlement of the trade between the NEMOs, or as the case may be, the entity appointed by a NEMO to act as its CCP.
6. A matched bid entitles the market participant to receive the amount of energy by means of an Internal Commercial Trade Schedule from the NEMO's balance group, or as the case may be, the balance group of the entity appointed by a NEMO to act as its CCP, to its own balance group within the same Bidding Zone (or Scheduling Area).
7. A matched offer obliges the respective market participant to deliver the respective energy by means of an Internal Commercial Trade Schedule from its own balance group to the NEMO's balance group, or as the case may be, the balance group of the entity appointed by a NEMO to act as its CCP, within the same Bidding Zone (or Scheduling Area).
8. Between the following Bidding Zones (and/or Scheduling Areas), Physical Settlement is possible respecting existing capacity restrictions:

<b>Bidding Zone Border</b>	<b>Cross-Zonal Shipping Links (Scheduling Area Border)</b>	
DE/LU – AT	Amprion	APG
	TenneT GmbH	APG
	TransnetBW	APG
HU – AT <sup>1</sup>	Mavir	APG
CZ – AT <sup>1</sup>	CEPS	APG
SI – AT	Eles	APG
IT – AT	Terna	APG
CH – AT <sup>1</sup>	Swissgrid	APG

*Table 1: Cross-Zonal Shipping Links*

### **Article 7**

#### **Single Day-Ahead Coupling**

1. The SDAC must allow for multiple NEMOs operating in the day-ahead market in the same Bidding Zone (and/or Scheduling Area).
2. The day-ahead market coupling algorithm must deliver (at least) the following results per market time unit:
  - a. Single Day-ahead Price and net position for the Austrian bidding zone; and
  - b. Net position and price for each of the NEMO Trading Hubs in the Austrian bidding zone.
3. NEMOs are responsible for implementing the necessary requirements within the single day-ahead market coupling mechanism to enable the functionalities described in Art. 7 (1) and 7 (2).

### **Article 8**

#### **Single Intraday Coupling**

1. The Single Intraday Coupling (SIDC) must allow for multiple NEMOs operating intraday markets in the same Bidding Zone (and/or same Scheduling Area) for the purpose of continuous implicit allocation of cross-zonal capacity.
2. For that purpose, the SIDC solution must consider that there is no exchange limitation for continuous matching of orders from different NEMO Trading Hubs within the Austrian bidding zone.
3. NEMOs are responsible for implementing the necessary requirements within the single intraday market coupling mechanism to enable these functionalities.

## **Chapter 2**

### **Data exchange with the MCO-function**

#### **Article 9**

---

<sup>1</sup> Currently day-ahead market coupling is not implemented on these borders.

---

### **Data exchange for Single Day-Ahead Coupling**

1. The SDAC algorithm is hosted by the Market Coupling Operator Function (MCO-Function). As TSOs are not directly connected to the MCO-Function, input and output data need to be transferred via the NEMO trading systems.
2. The data exchanges between TSOs and the MCO-Function relating to input and output data will be done according to the approved MCO plan pursuant Art. 7(2) of CACM Regulation.
3. TSOs will use one single data exchange point to exchange data with the MCO-Function in the pre- and post-coupling phase. TSOs will specify details of this single data exchange point in the implementation phase.
4. NEMOs shall organize themselves to transfer the input and output data between the single data exchange point and the MCO-Function. TSOs shall organize themselves to transfer the input and output data between the single data exchange point and their individual systems. The single data exchange point shall be accessible to the NEMOs on equal terms.
5. The following steps are performed:
  - a. The CCC shall calculate cross-zonal capacities and allocation constraints (if applicable) and send them to the single data exchange point.
  - b. The NEMOs shall be in charge of transferring the input and output data of relevance for the TSOs on a given day to the MCO-function. The NEMOs shall organize themselves in accordance with provision of the approved MCO-Plan pursuant Art 7(2) of the CACM Regulation. Should the NEMOs not agree two months after one of the NEMOs declared a date when it is ready to start operations, the following rule shall apply: monthly rotations of the NEMOs starting in alphabetical order of the company names of the NEMOs.
  - c. The NEMOs shall retrieve the input data from the single data exchange point and forward them to the NEMOs (MCO-function) for a given day.
  - d. The NEMOs shall retrieve the output data from the MCO-function and forward them to the single data exchange point (e.g. to allow for the necessary validation of results).
  - e. APG does not assume any liability for data inconsistency at the NEMOs. In case data inconsistency is caused by a/the TSOs, a/the TSO(s) will be liable.
6. The NEMOs shall provide the net position for each NEMO Trading Hub of the Austrian Bidding Zone to the TSOs as part of the SDAC results.
7. Details on the different steps as well as back-up circumstances will be specified during the implementation phase.

### **Article 10 Data exchange for Single intraday coupling**

1. The data exchange for the SIDC will be organized in line with the implementation of the Capacity Management Module (CMM) and the Shipping Module (SM) developed by the SIDC solution.

### **Chapter 3** **Shipping, clearing and settlement arrangements with MNA**

#### **Article 11** **General principles**

1. Shipping is a two-part transaction consisting of:
  - a. **Physical Settlement:** The nominations by NEMOs, or as the case may be, the entity appointed by a NEMO to act as its CCP, to TSOs per Market Time Unit based on the Net Positions resulting from the Single Day-Ahead and Single Intraday Coupling, by means of Internal and/or External Commercial Trade Schedules between the NEMOs (or as the case may be, the entity appointed by a NEMO to act as its CCP) and Shipping Agents' Balance Groups.
  - b. **Financial Settlement:** The clearing and settlement of payments in exchange for the exchanged energy among the NEMOs, or as the case may be, the entity appointed by a NEMO to act as its CCP, based on the relevant Market Clearing Price per Market Time Unit resulting from the Single Day-Ahead and Single Intraday Coupling.
2. According to Article 7(1) of CACM Regulation, Shipping is a NEMO task. The Shipping shall comply with the "Preferred Shipping Agent (psA)" model according to Art. 12 of this MNA.
3. NEMOs, or as the case may be, the entity appointed by a NEMO to act as its CCP, and psAs require standard balance group-contracts for Physical Settlement purposes. Due to equal treatment for shipping between NEMOs, or as the case may be, the entity appointed by a NEMO to act as its CCP, no priority for nominations will be applied in case of mismatches except if agreed so by the respective NEMOs, or as the case may be, the entity appointed by a NEMO to act as its CCP.
4. TSOs shall apply standard rules and processes related to Physical Settlement, in particular with regard to nomination deadlines.
5. This MNA distinguishes two layers of Shipping:
  - a. intra-zonal layer: Shipping between NEMO Trading Hubs within the Austrian Bidding Zone; and
  - b. cross-zonal layer: Shipping between the Austrian Bidding Zone and other Bidding Zones.
6. The settlement of energy exchanges within each NEMO Trading Hub remains the same irrespective whether one or more NEMOs are active in the Bidding Zone. With multiple NEMOs today's buy and sell-processes will remain the same.

---

## **Article 12**

### **Preferred Shipping Agent**

1. Within the Austrian Bidding Zone the designated Shipping approach for the SDAC and the SIDC is the “Preferred Shipping Agent” (pSA) model. Under the pSA, it is the responsibility of the selling NEMO to act as an intermediary between the selling NEMO and the buying NEMO (or, as the case may be, the entity appointed by a NEMO to act as its CCP).
2. The Preferred Shipping Agent model is extendible for additional NEMOs/CCPs in the Austrian Bidding Zone. It is a regionally harmonized approach among Austria, the Netherlands, Belgium, France and Germany/Luxembourg.
3. The regionally harmonized approach will be made interoperable in case other shipping approaches will be applied in other Bidding Zones. The coordination will be processed in the upcoming implementation projects.

## **Article 13**

### **Scheduled Exchange Calculation**

1. Scheduled Exchanges could be either calculated by the NEMOs or the TSOs. This will be decided in the implementation phase.
2. In case TSOs intend to calculate Scheduled Exchanges resulting from SDAC, the algorithm for calculating Scheduled Exchanges (e.g. External and Internal Commercial Trade Schedules) will be developed in accordance with the applicable methodologies for the price coupling algorithm, pursuant to Article. 37 of the CACM Regulation and the methodology for calculating Scheduled Exchanges resulting from Single Day-ahead Coupling, pursuant to Article 43 of the CACM Regulation.
3. In case the TSOs intend to calculate Schedules Exchanges resulting from SIDC, the algorithm for calculating the Scheduled Exchanges (e.g. External and Internal Commercial Trade Schedules) resulting from Single Intraday Coupling will be developed in accordance with the applicable methodologies for the price coupling algorithm, pursuant to Article. 37 of the CACM Regulation and the methodology for calculating Scheduled Exchanges resulting from Intraday Coupling, pursuant to Article 56 of the CACM Regulation.
4. For a given market time unit, the sum of all scheduled exchanges between the Austrian Bidding Zone and adjacent bidding zones in SDAC corresponds to the net position of the Austrian Bidding Zone, up to a certain technical tolerance for deviations due to energy rounding.
5. The responsibility for settling rounding imbalances in the context of Article 68 (5) of the CACM Regulation is linked to the responsibility for calculating the Scheduled Exchanges.

## **Article 14**

### **Intra-zonal shipping**

1. The NEMOs operating NEMO Trading Hubs the Austrian Bidding Zone are responsible to enable Shipping between all NEMO Trading Hubs in this Bidding Zone by means of their CCPs and/or pSAs.
2. Intra-zonal shipping shall be performed according to the process described hereafter:
  - a. All NEMOs (or, as the case may be, the CCPs appointed to act on their behalf) have to designate their individual pSA
  - b. The pSA can either be the NEMO itself, or a third party appointed by such NEMO (or, as the case may be, by the CCP appointed to act on such NEMO's behalf) to act as its pSA
  - c. The pSA of the transferring NEMO (or its CCP, as the case may be) performs the Shipping.
  - d. The Physical Settlement requires the following actions:
    - i. An Internal Commercial Trade Schedule from the Balance Group of the transferring NEMO (or its CCP, as the case may be) to the Balance Group of its pSA (only in case the pSA is not identical with the NEMO (or its CCP, as the case may be)).
    - ii. An Internal Commercial Trade Schedule from Balance Group of the pSA to the Balance Group of the receiving NEMO (or its CCP, as the case may be).
  - e. Cross clearing and financial settlement arrangements will be defined and organized between the Austrian NEMOs or, as the case may be, the CCP appointed to act on such NEMO's behalf, without any direct involvement of APG.

### **Article 15** **Cross-Zonal Shipping for SDAC**

1. The NEMOs in the Austrian Bidding Zone are responsible to enable Shipping between all NEMO Trading Hubs of the Austrian Bidding Zone and adjacent Bidding Zones.
2. For the Austrian Bidding Zone, Cross-Zonal Shipping becomes relevant for the borders listed in Table 1, as far as these are operational in the Single Day-ahead Coupling.
3. Cross-zonal shipping shall be performed according to the process described hereafter:
  - a. All NEMOs (or, as the case may be, the CCPs appointed to act on their behalf) have to designate their individual pSA.
  - b. The pSA can either be the NEMO itself, or a third party appointed by such NEMO (or, as the case may be, by the CCP appointed to act on such NEMO's behalf) to act as its pSA.
  - c. The pSA of the transferring NEMO (or its CCP, as the case may be) performs the Shipping.
  - d. The Physical Settlement requires the following actions:
    - i. An Internal Commercial Trade Schedule from the Balance Group of the transferring NEMO (or its CCP, as the case may be) to the Balance Group of its pSA within the source Bidding Zone (or Scheduling Area) (only in case the pSA is not identical with the NEMO or its CCP, as the case may be)
    - ii. An External Commercial Trade Schedule between the Balance Groups of the pSA in both Bidding Zones (or Scheduling Areas)
    - iii. An Internal Commercial Trade Schedule from Balance Group of the pSA to the Balance Group of the receiving NEMO (or its CCP, as the case may be) within the

- sink Bidding Zone (or Scheduling Area) (only in case the pSA is not identical with the NEMO)
- e. External Commercial Trade Schedules across Bidding Zone Borders require:
    - i. A Cross-Zonal Shipping Link
    - ii. A Transmission Right (i.e. Programming Authorization) in favour of the nominating pSA
    - iii. A Cross-Zonal process between the adjacent TSOs to validate the consistency of the nominated External Commercial Trade Schedules and the Transmission Right
  - f. Cross clearing and financial settlement arrangements will be defined and organized between the Austrian NEMOs or, as the case may be, the CCP appointed to act on such NEMO's behalf, without any direct involvement of APG.
4. The TSOs jointly operating a Cross-Zonal Shipping Link are responsible to issue a Transmission Right (i.e. Programming Authorization) in favour of the nominating pSA.
  5. The NEMOs or, as the case may be, the CCP appointed to act on such NEMO's behalf in the Austrian bidding zone performing the Financial Settlement of cross-zonal energy exchanges shall collect congestion income originating from such exchanges, if any, and transfer it to the entity responsible for the distribution of the Congestion Income.

#### **Article 16** **Cross-Zonal Shipping for SIDC**

1. The fundamentals described in Art. 11 to Art. 15 for cross-zonal shipping for SDAC are also valid for SIDC.
2. For SIDC, in contrast to the SDAC, delivering and receiving NEMO, or as the case may be the company appointed by a NEMO to act as its CCP could be located in remote Bidding Zones (Scheduling Areas) not directly adjacent to each other. In this case, the pSA has to perform the Physical Settlement through the intermediate Bidding Zones (Scheduling Areas) for the entire shipping path. The preferred shipping agent of the receiving CCP is not involved in the shipping.
3. In case the physical shipping path passes several Bidding Zones (Scheduling Areas), several External Commercial Trade Schedules are required.
4. Congestion income distribution is not yet applicable for SIDC. Capacity allocation is based on the "first-come-first-serve" principle, therefore no price is attached to the allocated capacity. The pricing of intraday capacity will be developed under the intraday capacity pricing methodology pursuant to Art. 55 of the CACM Regulation.

#### **Chapter 4** **Fallback arrangements**

#### **Article 17** **General provisions**

1. Fallback procedures shall be initiated in accordance with Art. 50 of CACM Regulation.
2. In the case of a decoupling of one, more or all Austrian NEMO Trading Hubs from the SDAC or SIDC, regardless of whether SDAC or SIDC remains coupled with regard to the other NEMO Trading Hubs partially or fully decoupled on the level of Bidding Zones, the following fallback arrangement shall be applied to the decoupled NEMO Trading Hubs within the Austrian Bidding Zone:
  - a. Each NEMO has to be able to match orders of its order books in the Austrian Bidding Zone, which are decoupled from SDAC or SIDC, resulting in a single market clearing price and net position per NEMO Trading Hub.
  - b. Individual Net Positions for these NEMO Trading Hubs have to sum up to zero per associated NEMO in each Market Time Unit (i.e no cross-zonal exchanges and no exchanges with other NEMOs).
  - c. Each NEMO has to enable its CCP and pSA to settle the results of the fallback.

### **Article 18** **Decoupling cases with MNA**

1. With MNA, different coupling or decoupling situations can occur, leading to different consequences. Therefore, a more detailed description of the different cases of decoupling and fallback procedures will have to be defined in the relevant single day-ahead and single intraday market coupling solutions.
2. A “normal coupling” occurs when the Austrian Bidding Zone is coupled on all its bidding zone borders:
  - a. In such case the market coupling algorithm must consider that there is in effect no exchange limitation for matching orders from different NEMO Hubs in the Austrian bidding zone; and
  - b. For day-ahead market coupling it results amongst others in a Single Day-ahead Price for the Austrian bidding zone.
3. A “partial decoupling” occurs when the Austrian Bidding Zone is decoupled on at least one (but not all) of its bidding zone borders:
  - a. In such case the market coupling algorithm must consider that there is in effect no exchange limitation for matching orders from different NEMO Hubs in the Austrian bidding zone;
  - b. For day-ahead market coupling this results amongst others in a Single Day-ahead Price for the Austrian bidding zone; and
  - c. Where applicable, fall-back solutions for explicit allocation of cross-zonal capacity are activated on the decoupled border(s).
4. A “full decoupling” occurs when the Austrian Bidding Zone is decoupled on all of its bidding zone borders:
  - a. Orders of the Austrian bidding zone are no longer matched with orders of other bidding zones;

- b. The price of each NEMO Trading Hub is determined by the respective Austrian NEMOs. This might result in different prices per NEMO Hub in the Austrian bidding zone; and
  - c. Where applicable, fall-back solutions for explicit allocation of cross-zonal capacity are activated on the decoupled borders.
5. A situation in which a subset of the Austrian NEMO Trading Hubs are coupled occurs, if at least one of the Austrian NEMO Trading Hubs cannot participate in the market coupling process, while the other Austrian NEMO Trading Hubs remain coupled:
  - a. The market coupling process will only consider the orders transmitted by NEMO Trading Hubs participating in the market coupling process. This will result in a Single Day-ahead Price for the coupled NEMO Trading Hubs;
  - b. The NEMO Trading Hubs not participating in the market coupling will each determine the price for their NEMO Trading Hub(s); and
  - c. No fall-back solution for explicit allocation of cross-zonal capacity will be activated; all cross-zonal capacity is allocated in the market coupling process to the coupled Austrian NEMO Trading Hub(s).

## **Chapter 5**

### **Price Reference for the Austrian Bidding Zone**

#### **Article 19**

#### **Reference price for SDAC**

1. For the day-ahead timeframe each Austrian NEMO is responsible for the price determined on its NEMO Trading Hub and is responsible for its publication.
2. Except in case of a “full decoupling” situation or a situation with a coupling with a subset of the Austrian NEMO Trading Hubs as defined under Article 18 (4) and 18 (5) of this MNA, the price of all the NEMO Trading Hubs in the Austrian bidding zone for the day-ahead timeframe equals the Single Day-ahead Price for the Austrian bidding zone.
3. In case of different prices for different NEMO Trading Hubs of the Austrian bidding zone, APG will calculate a Bidding Zone Reference Day-Ahead Price for the Austrian bidding zone for each market time unit. This Bidding Zone Reference Day-Ahead Price will be used by APG where required to fulfil its obligations.
4. The Bidding Zone Reference Day-Ahead Price is calculated as the volume weighted average price of the prices of the NEMO Trading Hubs in the Austrian bidding zone per relevant market time unit.
5. The orders of the members on a certain NEMO Trading Hub will be settled at the price of the concerned NEMO Trading Hub.
6. For the day-ahead timeframe each Austrian NEMO must provide APG with the data from its NEMO Trading Hub required for the determination of the Bidding Zone Reference Day-Ahead Price for the Austrian bidding zone per relevant market time unit.

<b>Case</b>	<b>Price on each NEMO Trading Hub</b>	<b>Bidding Zone Reference Day-Ahead Price</b>
<b>Austria coupled on all its bidding zone borders</b>	Single Day-ahead price	Single Day-ahead Price
<b>Austria partly decoupled on a bidding zone border</b>	Single Day-ahead price	Single Day-ahead Price
<b>Austria fully decoupled on all bidding zone borders</b>	Price determined by each Austrian NEMO Trading Hub	Bidding Zone Reference Day-Ahead Price
<b>Market coupling of Austria with a subset of the Austrian NEMO Trading Hubs</b>	For the coupled Austrian NEMOs: price determined by the single day-ahead market coupling algorithm; Else, price determined by each decoupled Austrian NEMO Trading Hub.	Bidding Zone Reference Day-Ahead Price

*Table 2: Decoupling scenarios*

## Chapter 6 Contractual arrangements

### Article 20 General provisions

1. Pursuant to Article 7 (1) of CACM Regulation, NEMOs shall in cooperation with TSOs operate the SDAC and SIDC.
2. It is acknowledged that all European NEMOs and all European TSOs potentially will conclude a Framework Agreement stipulating the respective rights and obligations regarding the establishment, update and further development of the SDAC and the SIDC as well as its operations, which cannot reflect all national MNA aspects.
3. It is therefore suggested that all NEMOs within the Austrian Bidding Zone conclude a contract to confirm their commitment to the Austrian MNA, the delivery commitment towards each other and towards NEMOs of other Bidding Zones and their cooperation in good faith. In this respect all NEMOs, or as the case may be, the entity appointed by a NEMO to act as its CCP, shall perform the Shipping on the basis of its respective standard terms and conditions. However, the establishment of shipping links between NEMOs, or, as the case may be, the entity appointed by a NEMO to act as its CCP, towards each other might require additional contracts potentially involving respective TSOs. Contracts between NEMOs, or, as the case may be, the entity appointed by a NEMO to act as its CCP, as referred to in this paragraph shall be subject to the requirements of Art. 77 (2) of the CACM Regulation.
4. In the course of establishing, updating or further developing the SDAC and SIDC as well as operating it, the necessity might occur to develop and conclude further contracts and agreements. In case, the Austrian Bidding Zone is or might be affected, all NEMOs and/or all TSOs in the Austrian Bidding Zone shall actively contribute to the development of the respective contracts and agreements and each NEMO and/or each TSO shall be a signatory to them.

5. All contracts and agreements shall be based on the principles of non-discriminatory fair and equal treatment and shall allow for the adherence of further NEMOs and/or further TSOs in case such necessity occurs.

### **TITLE 3 Final Provisions**

#### **Article 21 Implementation**

1. The implementation of the MNA for the Austrian bidding zone is subject to:
  - a. regulatory approval by E-Control of this MNA proposal;
  - b. alignment among TSOs and NEMOs concerning data exchange and scheduled exchanges, and
  - c. set-up of the contractual arrangements required for the operation of the single day-ahead coupling and intraday coupling with multiple NEMOs per bidding zone, including agreements between NEMOs to ensure cross-border shipping.
2. The implementation of the MNA and consequently non-discriminatory access to cross-border capacities for all NEMOs active in Austria for both the day-ahead and intraday timeframe shall be granted at the earliest possible date.
3. In case dependencies of this MNA on other terms, conditions and methodologies pursuant to Article 9 (6) – (8) of CACM Regulation cannot be fully resolved until go-live of this MNA, temporary arrangements based on agreements between involved TSOs and NEMOs shall be put in place until these dependencies are fully resolved.

#### **Article 22 Language**

1. The reference language for this MNA shall be English.