

Postbus 718, 6800 AS Arnhem, Nederland
Autoriteit Consument en Markt
T.a.v. de heer dr. F.J.H. Don
Postbus 16326
2500 BH DEN HAAG

DATUM 12 juli 2016
UW REFERENTIE
ONZE REFERENTIE REC-N 16-030
BEHANDELD DOOR
TELEFOON DIRECT
E-MAIL



BETREFT Methodologie op basis van artikel 73 van de Verordening (EU) 2015/1222 (CACM)

Geachte heer Don,

Hierbij ontvangt u een voorstel voor de methodologie die door de gezamenlijke Europese TSO's in ENTSO-E verband is opgesteld op basis van de Verordening (EU) 2015/1222 van 24 juli 2015 tot vaststelling van richtsnoeren betreffende capaciteitstoeewijzing en congestiebeheer (afgekort: CACM).

Het betreft:

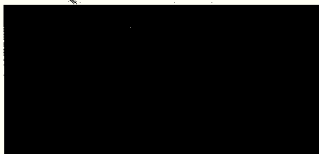
"All TSOs' Proposal for a Congestion Income Distribution (CID) methodology in accordance with Article 73 of the Commission Regulation (EU) 2015/1222 of 24 July 2015 establishing a Guideline on Capacity Allocation and Congestion Management" (afgekort: CID) d.d. 29 juni 2016.

U wordt verzocht dit voorstel vast te stellen krachtens artikel 9, vijfde lid, van de CACM.

Het voorstel bevat geen vertrouwelijke gegevens en kan integraal door u gepubliceerd worden.

Daarnaast ontvangt u ter informatie een "explanatory note" bij deze methodologie.

Hoogachtend,
TenneT TSO B.V.



Jan-Paul Dijkmans
Senior Manager Regulation NL

**All TSOs' Proposal for a Congestion Income
Distribution (CID) methodology in accordance with
Article 73 of the Commission Regulation (EU)
2015/1222 of 24 July 2015 establishing a Guideline on
Capacity Allocation and Congestion Management**

29 June 2016

Contents

Whereas.....	3
TITLE 1 General Provisions.....	4
Article 1 Subject matter and scope.....	4
Article 2 Definitions and interpretation.....	4
Title 2 Collection and distribution of Congestion Income to the Bidding Zone Borders.....	5
Article 3 Process and calculation of Congestion Income.....	6
TITLE 3 Congestion Income Distribution on the Bidding Zone border.....	6
Article 4 Sharing keys.....	6
Article 5 General Provisions for specific sharing keys and additional rules.....	7
Article 6 Specific sharing keys.....	7
Article 7 Additional rules for Congestion Income Distribution.....	8
TITLE 4 Final provisions.....	9
Article 8 Publication and Implementation of the CID Methodology.....	9
Article 9 Language.....	9

All TSOs, taking into account the following,

Whereas

- (1) This document is a common proposal developed by all Transmission System Operators (hereafter referred to as "TSOs") regarding a methodology for Congestion Income distribution (hereafter referred to as "CID Methodology") in accordance with Article 73 of Commission Regulation (EU) 2015/1222 establishing a guideline on Capacity Allocation and Congestion Management (hereafter referred to as the "CACM Regulation"). This proposal is hereafter referred to as "CID Methodology Proposal".
- (2) The CID Methodology Proposal takes into consideration the provisions on general principles of Congestion Income in Article 16 (6) of Regulation (EC) No 714/2009 of the European Parliament and of the Council of 13 July 2009 on conditions for access to the network for cross-border exchanges in electricity (hereafter referred to as "Regulation (EC) No 714/2009").
- (3) This CID Methodology Proposal takes into account the general principles, goals and other methodologies set in the CACM Regulation. The goal of the CACM Regulation is the coordination and harmonisation of capacity calculation and Capacity Allocation in the day-ahead and intraday cross-border markets, and it sets requirements for the TSOs to co-operate on the level of capacity calculation regions (hereinafter referred to as "CCRs"), on a pan-European level and across bidding zone borders. The CACM Regulation sets also rules for establishing capacity calculation methodologies based either on the Coordinated Net Transmission Capacity Approach ("Coordinated NTC Approach") or the Flow-Based Approach ("FB Approach").
- (4) According to Article 9 (9) of the CACM Regulation, the expected impact of the proposed CID Methodology on the objectives of the CACM Regulation has to be described and is presented below.
- (5) The proposed CID Methodology generally contributes to the achievement of the objectives of Article 3 of CACM Regulation or the usage principles for Congestion Income set in Regulation (EC) No 714/2009. In particular, the CID Methodology serves the objective of promoting effective competition in the trading and supply of electricity, non-discriminatory access to cross-zonal capacity as it lays down objective criteria and solutions for the distribution of Congestion Income to be applied by all involved TSOs, thus, creating a solid basis for Congestion Income distribution for the first time at European level. One default solution is provided for all bidding zone borders whereas the CID Methodology allows for specific sharing keys in limited specific cases under the conditions described herein. This limited room for flexibility under certain conditions allows capturing appropriately the specificities of different Interconnectors and national frameworks (e.g. legal framework on congestion management for exempted Interconnectors).
- (6) Congestion Income indicates how much market participants value the possibility for cross-border trade, how Interconnections are used and where capacity should be increased. Via the possibility to consider investment costs in the specific sharing keys, more certainty can be achieved for a more optimal sharing key for future investments and thus, long-term operation and development of the electricity transmission system and electricity sector in the European Union is supported.

- (7) Furthermore, the CID Methodology ensures fair and non discriminatory treatment of all affected parties, as it sets rules to be applied by all parties. Further, the methodology takes into account Congestion Income derived by Interconnections on bidding zone borders owned by legal entities other than TSOs, preventing exclusion of such Congestion Income from the application of the CID Methodology as long as these Interconnections are operated by certified TSOs.
- (8) Regarding the objective of transparency and reliability of information, the CID methodology clearly provides clear rules and a solid basis for Congestion Income distribution in a transparent and reliable way. In addition, the CID Methodology, as well as the specific sharing keys, will be published by TSOs increasing transparency and reliability of information.
- (9) In conclusion, the proposed CID Methodology contributes to the general objectives of the CACM Regulation to the benefit of all market participants and electricity end consumers.

SUBMIT THE FOLLOWING CID METHODOLOGY TO ALL REGULATORY AUTHORITIES:

TITLE 1

General Provisions

Article 1

Subject matter and scope

1. The CID Methodology shall be considered as the common proposal of all TSOs in accordance with Article 73 of CACM Regulation and shall cover the Congestion Income distribution for:
 - a. all existing and future Bidding Zone borders and Interconnectors within and between Member States, to which the CACM Regulation applies and where Congestion Income is collected;
 - b. Interconnectors which are owned by TSOs or by other legal entities;
 - c. Congestion Income derived from Capacity Allocation based on Coordinated NTC Approach and FB Approach; and
 - d. Congestion Income derived from Capacity Allocation in the Day-Ahead and Intraday Market Timeframes.
2. Where Congestion Income derives from transmission assets owned by legal entities other than TSOs, these parties shall be treated in a transparent and non-discriminatory way. The TSOs operating these assets shall conclude the necessary agreements compliant with this CID Methodology with the relevant transmission asset owners to remunerate them for the transmission assets they operate on their behalf.

Article 2

Definitions and interpretation

1. For the purpose of the CID Methodology, terms used in this document shall have the meaning of the definitions included in Article 2 of the CACM Regulation, of Regulation (EC) 714/2009, Directive 2009/72/EC and Commission Regulation (EU) 543/2013.
2. In addition, in this CID Methodology, unless the context requires otherwise, the following terms shall have the meaning below:

- a. "Long Term Transmission Right" means a Physical transmission right or a FTR-option or a FTR – obligation acquired in the forward Capacity Allocation;
 - b. "Commercial Flow" means the flow over a Bidding Zone border resulting from Single Day-Ahead Coupling or Single Intraday Coupling where it is distinguished as follows:
 - i. for CCRs applying Coordinated NTC Approach it means the schedules exchanged over the Bidding Zone border; and
 - ii. for CCRs applying the FB Approach it means:
 - a) either the additional aggregated flow (AAF) between two adjacent Bidding Zones where the AAF means the flow between two Bidding Zones and is calculated based on the FB parameters and the results of the Capacity Allocation within respective day-ahead or intraday market timeframe; or
 - b) a calculated value per Bidding Zone border where the sum of these values per Bidding Zone are equal to the respective net position of the same Bidding Zone to the extent this net position is a result of the Capacity Allocation based on the FB Approach;
 - c. External Flow means the flow resulting from exchanges within a CCR from the Single Day-Ahead Coupling and Single Intraday Coupling that cannot be directly assigned to a Bidding Zone border of that CCR and is calculated as the flow needed in order to balance the net position resulting from exchanges within the CCR and the sum of AAFs over each Bidding Zone border within the CCR in case where:
 - i. AAF is used within a CCR applying the FB Approach; and
 - ii. at least two Bidding Zones are connected to an alternative current ("AC") Interconnector which, as indicated by the FB Approach, carries flows over Bidding Zone borders not included in the same CCR.
 - d. External Flow Value means the Congestion Income allocated to the External Flow or the External Flow times the Market Spread and it equals the difference between the Congestion Income available for the entire CCR and the Congestion Income allocated to each Bidding Zone border;
 - e. "Interconnector" means an interconnector as defined in Regulation (EC) No 714/2009.
 - f. "Net Border Income" means the Congestion Income allocated per side of a Bidding Zone Border less the corresponding remuneration of Long Term Transmission Rights per Market Time Unit (MTU); and
 - g. "Market Spread" means the difference between the hourly day-ahead prices of the two concerned bidding zones for the respective market time unit in a specific direction.
3. In addition, in this CID Methodology, unless the context requires otherwise:
- a. a Bidding Zone border may consist of one or more Interconnector(s) for the purposes of the Congestion Income distribution;
 - b. the singular indicates the plural and vice versa;
 - c. the table of contents and headings are inserted for convenience only and do not affect the interpretation of this CID Methodology; and
 - d. any reference to legislation, regulations, directives, orders, instruments, codes or any other enactment shall include any modification, extension or re-enactment of it when in force.

Title 2

Collection and distribution of Congestion Income to the Bidding Zone Borders

Article 3

Process and calculation of Congestion Income

1. In accordance with Article 68(7) and (8) of CACM Regulation, the relevant Central Counter Parties or Shipping Agents shall collect the Congestion Income arising from the Single Day-Ahead Coupling and from the Single Intraday Coupling and shall ensure that collected Congestion Incomes are transferred to the TSOs no later than two weeks after the date of the settlement.
2. For the Day-Ahead Market Time-frame the Congestion Income generated on a Bidding Zone border shall be calculated as the absolute values of the product of the Commercial Flow times the Market Spread. For the Intraday Market Time-Frame the Congestion Income shall be calculated as the sum of all revenues from the Capacity Allocation per MTU.
3. Before the Congestion Income is distributed to each Bidding Zone border any remunerations of Long Term Transmission Rights (LTRs) to be paid by the relevant TSOs in accordance with relevant legislation shall be deducted from the Congestion Income of the relevant Bidding Zone border and relevant TSOs taking into account any additional rule in accordance with Article 7 (3).
4. The relevant Central Counter Parties or Shipping Agents shall distribute the Congestion Income to the TSOs or to an entity appointed by the TSOs, which shall distribute the Congestion Income to the TSOs based on the rules set forth in this document and within the timeframe set in Article 73 (3) of CACM Regulation.

TITLE 3

Congestion Income Distribution on the Bidding Zone border

Article 4

Sharing keys

1. After the distribution of Congestion Income to each Bidding Zone border, the TSOs on both sides of the Bidding Zone borders shall assign the Congestion Income first to the respective Interconnectors on that Bidding Zone border based on the respective share in installed capacity of the concerned Interconnectors or, in case of HVDC Interconnectors, based on the allocated capacity. Upon agreement by the TSOs on the Bidding Zone border and approval by the relevant national Regulatory Authorities (hereafter referred to as "NRAs") where they are competent to do so according to national legislation, another parameter may apply which takes into account the Interconnectors' contribution to the allocated capacity. The Congestion Income assigned to each Interconnector shall then be shared based on the respective applicable sharing key as described in the following provisions.
2. After the assignment of Congestion Income to each Interconnector, the TSOs on each side of the Bidding Zone border shall receive their share of this Congestion Income based on:
 - a. either as default:
 - i. a 50%-50% sharing key taking into account any additional rules in accordance with Article 7; or
 - ii. a 100% sharing key in the cases of paragraphs 3 and 4 of this Article; or
 - b. a specific sharing key for a certain Interconnectors in accordance with Articles 5 to 7 of this CID Methodology.

3. If an Interconnector is 100% owned by a single TSO the TSO shall retain 100% of the Congestion Income assigned to that Interconnector.
4. If an Interconnector is 100% owned by another legal entity and is operated by a TSO or if this Interconnector has an exemption in accordance with Article 17 of Regulation (EC) No 714/2009, the owner of such an Interconnector shall retain 100% of the Congestion Income assigned to that Interconnector.

Article 5

General Provisions for specific sharing keys and additional rules

1. Under the conditions described in Articles 6 and 7 the relevant TSOs may agree on an additional rule or a specific sharing key for MTU and for Capacity Allocation timeframe for the distribution of Congestion Income which shall apply to (a) certain Interconnector(s).
2. The relevant TSOs shall agree and submit specific sharing keys and additional rules to the relevant NRAs. The NRAs shall approve such an agreement where they are competent to do so according to national legislation, unless these agreements have been subject to regulatory consideration.
3. The TSOs may agree to limit the duration of the application of an additional rule or a specific sharing key.
4. For Interconnectors on a Bidding Zone border to which a specific sharing key does not apply, the default sharing key in accordance with Article 4 shall remain applicable.

Article 6

Specific sharing keys

In accordance with Article 5, the relevant TSOs may agree on a specific sharing key if one or more of the following conditions are met:

1. Specific sharing key reflecting the investment costs or the ownership share upon agreement between the relevant TSOs and the owners of an Interconnector.
If there is a difference in the investment costs borne by the owners of an Interconnector or the ownership share, the Congestion Income assigned to the respective Interconnector may be distributed to the owners of the Interconnector proportionate to their share in investment costs or ownership.
2. Specific sharing key reflecting the benefits upon agreement between the TSOs within the same Bidding Zone.
If a new Interconnector is overall socio-economic efficient, but the socio-economic net benefit is unequally distributed between the affected TSOs of the relevant Bidding Zones the Congestion Income assigned to the respective Interconnector may be distributed to the affected TSOs of the relevant Bidding Zones based on a justified specific sharing key which shall:
 - a. reflect the distribution of the net benefits; and

- b. apply for a limited period which may be prolonged subject to a reassessment of the net benefits.
3. Specific sharing key reflecting Capacity Allocation constraints used for capacity calculation and Capacity Allocation upon agreement by all TSO within a CCR.
If a Capacity Allocation constraint, which covers the interdependencies of Capacity Allocation across different Bidding Zone borders is taken into account in the Capacity Allocation of cross zonal capacity, the Congestion Income, collected on the concerned Bidding Zone border(s), shall be distributed amongst the impacted TSOs reflecting the relative impact of this Capacity Allocation constraint.
4. Specific sharing key reflecting future principles related to cross-zonal Capacity Allocation.
All TSOs of one or more CCRs may agree on additional specific sharing key(s) for the distribution of Generated Congestion Income addressing interdependencies within and between CCR(s) due to future principles to be developed related to cross-zonal Capacity Allocation. The relevant TSOs shall include a reasoning about the need for such additional specific sharing key(s) in their proposal to be submitted to the NRAs.

Article 7

Additional rules for Congestion Income Distribution

In addition to the rules described in Article 4, TSOs within a CCR may agree to apply the following rules when distributing the Congestion Income to the Bidding Zone borders of the respective CCR:

1. Rule addressing the External Flow Value: where an External Flow Value exists, a share of 50% of the External Flow Value shall be allocated to the TSOs of the CCR which are hosting the respective External Flows. These TSOs shall allocate this External Flow Value proportionally (pro rata) to the External Flows hosted by each TSO (in MW). The remaining 50% of the External Flow Value shall be shared among all Bidding Zone borders within the CCR, proportionally (pro rata) to the Commercial Flow on each Bidding Zone border within the CCR and the External Flow.
2. Rule addressing Commercial Flows in opposite direction of the market spread (hereafter referred to as "non-intuitive Commercial Flows"): In case of non-intuitive Commercial Flows the TSOs within the same CCR shall redistribute the Congestion Income on each Bidding Zone border as follows:
 - a. under the FB Approach, where the AAF has been used to determine the Commercial Flow the absolute values of all Congestion Incomes for all Bidding Zone borders and External Flow Values shall be proportionally adjusted to ensure that their sum matches the Congestion Income which is available for distribution within entire CCR;
 - b. under Coordinated NTC approach or when the FB Approach is used and the AAF has not been used to determine the Commercial Flow the involved TSOs shall proportionally adjust all absolute values of all Congestion Incomes for each Bidding Zone border to ensure that their sum matches the Congestion Income which is available for distribution within the entire CCR.

3. Rule addressing non-negative Net Border Income: in case that the remuneration for Long Term Transmission Rights exceed the Congestion Income assigned to a side of a Bidding Zone border the TSOs within the same CCR shall share the amount of the remuneration of Long Term Transmission Rights which exceeds the Congestion Income of a side of a Bidding Zone border among themselves, proportionally to their Net Border Income from the respective CCR in order to ensure that all Net Border Incomes within the same CCR are non-negative under the conditions that:
 - a. the determination of offered long term cross-zonal capacity had been coordinated and agreed by the TSOs within the CCR; and
 - b. the amount of long term cross-zonal capacity which is subject to remuneration (e.g. FTRs or PTRs with UIOSI) does not exceed the day ahead capacity for the respective MTU.

TITLE 4

Final provisions

Article 8

Publication and Implementation of the CID Methodology

1. The TSOs shall publish the CID Methodology without undue delay after all NRAs have approved the proposed CID Methodology or a decision has been taken by the Agency for the Cooperation of Energy Regulators in accordance with Article 9(11) and 9(12) of the CACM Regulation.
2. The TSOs shall implement it in accordance with the applicable national regulatory regime and at the latest within six (6) months after the approval as referred to in paragraph 1.
3. In case TSOs agree on another parameter in accordance with Article 4(1) or a specific sharing key or an additional rule in accordance with Articles 5, 6 and 7 they shall submit such an agreement to the relevant NRAs within six (6) months after the approval as referred to in paragraph 1.
4. Where NRAs decide, in accordance with national legislation, that a parameter in accordance with Article 4(1) or a CID specific sharing key or an additional rule does not comply with the CID Methodology, the relevant TSOs shall amend the CID specific sharing key or additional rule respectively and re-submit it to the relevant NRAs within two (2) months upon the decision of the relevant NRAs.
5. The implementation dates mentioned in paragraphs 2 and 3 of this Article shall be postponed and existing CID sharing keys between the relevant TSOs shall remain applicable on Bidding Zone borders until the capacity calculation and Capacity Allocation takes place based on the Coordinated NTC Approach or the FB Approach in accordance with the CACM Regulation.

Article 9

Language

The reference language for this CID Methodology shall be English. For the avoidance of doubt, where TSOs need to translate this CID Methodology 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 relevant TSOs shall, in

accordance with national legislation, provide the relevant NRAs with an updated translation of the CID Methodology.

CID Methodology Explanatory note

29 June 2016

Disclaimer

This explanatory document is submitted by all TSOs to all NRAs for information and clarification purposes only accompanying the “All TSOs’ proposal for methodology for congestion income distribution (CID Methodology) in accordance with Article 73 of the Commission Regulation (EU) 2015/1222 of 24 July 2015 establishing a Guideline on Capacity Allocation and Congestion Management”.

Contents

Contents.....	2
I. Introduction	3
1. Purpose and Structure of the Methodology	3
2. Levels of Congestion Income collection and distribution	3
II. Requirements and Common Criteria for Congestion Income Distribution	4
1. Legal framework	4
2. Interpretation	5
III. Definitions	7
1. Commercial Flow	7
2. External Flow and External Flow Value	8
3. Net Border Income	9
IV. Collection and distribution of Congestion Income to the Bidding Zone Borders	9
V. Congestion Income Distribution on the Bidding Zone border under Coordinated NTC Approach and Flow-Based Approach	11
1. General rules and default sharing keys.....	11
2. Specific sharing keys.....	13
3. Additional rules for Congestion Income Distribution	16
a) Rule addressing the External Flow Value	16
b) Rule addressing “non-intuitive Commercial Flows”	17
c) Rule addressing non-negative Net Border Income.....	19

I. Introduction

1. Purpose and Structure of the Methodology

Article 73 of the Commission Regulation 2015/1222 establishing a Guideline on Capacity Allocation and Congestion Management (hereinafter referred to as “CACM Regulation”) requires that by 12 months after the entry into force of the CACM Regulation all Transmission System Operators (“TSOs”) propose a methodology for congestion income distribution (“CID Methodology”) to all National Regulatory Authorities (“NRAs”) for approval pursuant to Article 9(6)(m) of CACM Regulation. According to Article 9(9) of CACM Regulation the CID Methodology proposal needs to be submitted to ACER as well, who may issue an opinion on the proposal only if requested by the NRAs.

This document is an explanatory note accompanying the CID Methodology and describing the technical background which forms the basis for the all TSOs CID Methodology. The document is structured as follows. The legal requirements for the CID Methodology and their implications are presented in chapter 2. Chapter 3 provides an explanation of some definitions introduced in the proposal. In Chapter 4 the collection and distribution of Congestion Income to the Bidding Zone borders is described. Finally, chapter 5 depicts the Congestion Income distribution on the Bidding Zone borders as the final step of the process. Where relevant, examples are provided to better illustrate the application of the methodology.

The CID Methodology neither addresses the way Congestion Income is generated (e.g. capacity calculation and allocation mechanisms) nor the use of Congestion Income (e.g. for investments, etc.) by the individual TSO. These aspects are regulated and defined by other legal provisions and methodologies.

Capitalised terms used in this document are understood as defined in CACM Regulation, Regulation (EC) No 714/2009 of the European Parliament and of the Council of 13 July 2009 on conditions for access to the network for cross-border exchanges in electricity (hereafter referred to as “Regulation (EC) No 714/2009”), Commission Regulation (EU) 543/2013 and the CID Methodology Proposal.

2. Levels of Congestion Income collection and distribution

In the CACM Regulation, Congestion Income is defined as “*the revenues received as a result of capacity allocation*”. In particular, Congestion Income originates in the situation where transmission capacity between Bidding Zones or on Critical Network Elements is not sufficient enough to fulfil the demand. Congestion Income indicates how much market participants value the possibility for cross-border trade. Thus, it is one suitable criterion to determine at which Interconnector or Critical Network Element capacity should be increased.

Congestion Income can be generated from different Capacity Allocation timeframes, e.g. forward, day-ahead, intraday, and different capacity allocation mechanisms, i.e. explicit or implicit. For the Day-Ahead and Intraday Market Timeframes according to the CACM Regulation (Article 68(8)) Congestion Income will be collected by Central Counter Parties or Shipping Agents (in case of implicit allocation) or by allocation platforms (in case of explicit allocation where applicable). After the collection by the above mentioned entities, based on the rules described in the CID Methodology, the Congestion Income is assigned to each Bidding Zone border and then, it is distributed to the TSOs on each side of a Bidding Zone border or, via the relevant TSOs, to third party asset owners.

Until the implementation of the CID Methodology the sharing of the Congestion Income between the TSOs is based on joint agreements among the TSOs and with the relevant entities collecting the Congestion Income.

II. Requirements and Common Criteria for Congestion Income Distribution

1. Legal framework

The legal requirements for the CID Methodology are set out by **Article 73 (2) of CACM Regulation** as follows:

“2. The methodology developed in accordance with paragraph 1 shall:

(a) facilitate the efficient long-term operation and development of the electricity transmission system and the efficient operation of the electricity market of the Union;

(b) comply with the general principles of congestion management provided for in Article 16 of Regulation (EC) No 714/2009;

(c) allow for reasonable financial planning;

(d) be compatible across timeframes;

(e) establish arrangements to share congestion income deriving from transmission assets owned by parties other than TSOs.”

Moreover, **Article 16 of Regulation (EC) No 714/2009** states:

“General principles of congestion management

(1) Network congestion problems shall be addressed with non-discriminatory market-based solutions which give efficient economic signals to the market participants and transmission system operators involved. Network congestion problems shall preferentially be solved with non-transaction based methods, i.e. methods that do not involve a selection between the contracts of individual market participants.

(2) Transaction curtailment procedures shall only be used in emergency situations where the transmission system operator must act in an expeditious manner and re-dispatching or countertrading is not possible. Any such procedure shall be applied in a non-discriminatory manner.

Except in cases of force majeure, market participants who have been allocated capacity shall be compensated for any curtailment.

(3) The maximum capacity of the interconnections and/or the transmission networks affecting cross-border flows shall be made available to market participants, complying with safety standards of secure network operation.

(4) Market participants shall inform the transmission system operators concerned a reasonable time in advance of the relevant operational period whether they intend to use allocated capacity. Any allocated capacity that will not be used shall be reattributed to the market, in an open, transparent and non-discriminatory manner.

(5) Transmission system operators shall, as far as technically possible, net the capacity requirements of any power flows in opposite direction over the congested interconnection line in order to use that line to its maximum capacity. Having full regard to network security, transactions that relieve the congestion shall never be denied.

(6) Any revenues resulting from the allocation of interconnection shall be used for the following purposes:

(a) guaranteeing the actual availability of the allocated capacity; and/or

(b) maintaining or increasing interconnection capacities through network investments, in particular in new interconnectors.

If the revenues cannot be efficiently used for the purposes set out in points (a) and/or (b) of the first subparagraph, they may be used, subject to approval by the regulatory authorities of the Member States concerned, up to a maximum amount to be decided by those regulatory authorities, as income to be taken into account by the regulatory authorities when approving the methodology for calculating network tariffs and/or fixing network tariffs.

The rest of revenues shall be placed on a separate internal account line until such time as it can be spent on the purposes set out in points (a) and/or (b) of the first subparagraph. The regulatory authority shall inform the Agency of the approval referred to in the second subparagraph.”

Article 9(9) of CACM Regulation provides as follows:

“The proposal for terms and conditions or methodologies shall include a proposed timescale for their implementation and a description of their expected impact on the objectives of this Regulation. Proposals on terms and conditions or methodologies subject to the approval by several or all regulatory authorities shall be submitted to the Agency at the same time that they are submitted to regulatory authorities. Upon request by the competent regulatory authorities, the Agency shall issue an opinion within three months on the proposals for terms and conditions or methodologies.”

2. Interpretation

The CID Methodology complies with the requirements set out by Article 73 (2) of CACM Regulation and also serves the general objectives of the CACM Regulation. In particular, the CID Methodology is transparent, stable and does not provide any disincentives for TSOs to optimize capacity given to the market within accepted Operational Security Limits and within the applicable framework of TSO coordination. For example, it does not distort the provision of interconnection capacity to market participants, nor does it lead to an allocation process in favor of any party requesting capacity or energy nor provide a disincentive to reduce congestion. In addition, the CID Methodology does not negatively affect the processes and regulations under which TSOs fulfil their responsibility to allocate capacity to the market. The CID Methodology does not give inefficient economic signals to market participants or TSOs regarding the operation and development of the transmission system and the electricity market functioning. For example, it does not distort the market signals for network investments.

The CID Methodology is likewise compatible with the creation or removal of Bidding Zones and compatible with shifting the location of Bidding Zone borders between existing Bidding Zones and CCRs. The same rules should apply to all allocation timeframes within the scope of the CID Methodology, while different specific sharing keys could be applied to different timeframes, where respective conditions are met.

To ensure the above, a default sharing key for Congestion Income Distribution is suggested. This CID Methodology determines the 50/50 sharing key as the default sharing key in cases where Capacity Allocation takes place based on the Coordinated Net Transmission Capacity Approach (“Coordinated NTC Approach”) or the Flow-Based Approach (FB Approach) in accordance with the CACM Regulation. This default sharing key is proposed for the following reasons:

- a. it is widely applied, simple to understand and easy to administrate;
- b. the disadvantages of taking a wrong decision with the 50/50 default solution versus the risk of having an unknown but eventually more optimal solution are reasonably low; and

- c. when there is a lack of strong and clear justification for a specific sharing key, the 50/50 rule is deemed appropriate.

In addition, the 50/50 default sharing key avoids the contestable and challenging exercise of a mandatory cost benefit analysis (CBA) for the sharing of Congestion Income. Performing a CBA for CID would have the following concrete disadvantages:

- a. complexity: using CBA for CID would add tremendous complexity and could even hamper the development of new Interconnectors. It seems more convenient to opt for a simple approach for CID and let other sharing mechanisms (e.g. agreements between TSOs on cost sharing, inter transmission system operators compensation (ITC), cross border cost allocation (CBCA for PCIs)) as closing variables for the efficient allocation of costs and benefits at European level;
- b. lack of proportionality: it is questionable whether the results of a CBA for CID would justify the heavy work load for TSOs and NRAs connected to such CBA. Moreover, CBA uncertainties are likely to be higher than the potential imbalances due to the application of the 50/50 default sharing key; and
- c. requirement for very frequent updates of the CBA in order to guarantee that it is really representing the current situation.

The application of the default sharing key when an interconnector is 100% owned by a single TSO or legal entity results in the owner of the interconnector retaining 100% of the Congestion Income assigned to that interconnector.

Besides the above default sharing key, some room for flexibility is deemed necessary when determining the CID Methodology. In limited cases, specific sharing keys or additional rules to the default sharing key agreed by the relevant TSOs and, where relevant, approved by NRAs, may be justified by already existing infrastructure regimes or facilitate new investments. Therefore, if circumstances exist that justify it, TSOs should be given the possibility to agree on specific sharing keys different from the default one. Such specific sharing keys will ensure, for example, the investment on future Interconnectors and will take into account the specific benefits of the investments for the different investors or potential allocation constraints that may occur in the Capacity Allocation.

For both Coordinated NTC and FB Approach specific sharing keys may be justified based on the ownership status of the interconnectors, the sharing of the investment costs and the impact of the benefits of the investment or the implications of the Allocation Constraints. The determination of such specific sharing keys will lead to fair treatment of owners of Interconnectors, increase of incentives for investments in Interconnectors and will reflect external constraints impacting the Congestion Income.

Apart from the specific sharing keys, CID rules, additional to the default sharing key, may be required to tackle specificities within a CCR. Such rules are described in the CID methodology and, when relevant, they may be agreed by TSOs and, if necessary, approved by the relevant NRAs.

As this CID Methodology Proposal takes into account the current Flow-Based capacity calculation approach in the Central West Europe region and the experience from current NTC approaches, changes may be proven necessary when the Coordinated NTC or Flow-Based Approach, in accordance with the CACM Regulation, is implemented in each capacity calculation region. All TSOs already commit with this CID Methodology Proposal to reassess the CID Methodology upon request by all TSOs of a CCR without prejudice to the amendment procedure of terms and methodologies according to the CACM Regulation.

The requirement of Article 73(2)(e) of CACM Regulation is interpreted to imply that the CID Methodology and its implementation should also apply to third party transmission asset owners. Third party assets could be, for example, interconnectors which are not certified as TSOs but generate Congestion Income that has to be shared with one or more TSOs according to the CID Methodology.

III. Definitions

Article 2 of the CID Methodology introduces a number of definitions related to Congestion Income distribution. Below some newly introduced definitions are explained.

1. Commercial Flow

The definition of Commercial Flow is introduced in order to calculate the Congestion Income per Bidding Zone border as used in Title 3. The Commercial Flow is the flow over a Bidding Zone border resulting from commercial exchanges (i.e. the Single Day-Ahead Coupling or the Single Intraday Coupling). We distinguish between different capacity calculation methodologies, as the result from allocation based on the FB Approach more accurately represents the impact of commercial exchanges on each tie line on a Bidding Zone border.

Under the Coordinated NTC Approach the scheduled exchanges are used to determine the Commercial Flow over each Bidding Zone border within the CCR.

Under the Flow Based Approach, the result from market coupling will be net positions of hubs within a CCR applying the Flow Based Approach. These net positions will only be the net positions of exchanges between the respective hubs of that CCR.

The net positions resulting from allocation based on Flow Based Approach need to be translated to flow between Bidding Zone borders within the respective CCR, which is the Commercial Flow. Two methodologies are proposed to calculate the Commercial Flow over a Bidding Zone border.

- additional Aggregated Flow (AAF); or
- a calculated value per Bidding Zone border.

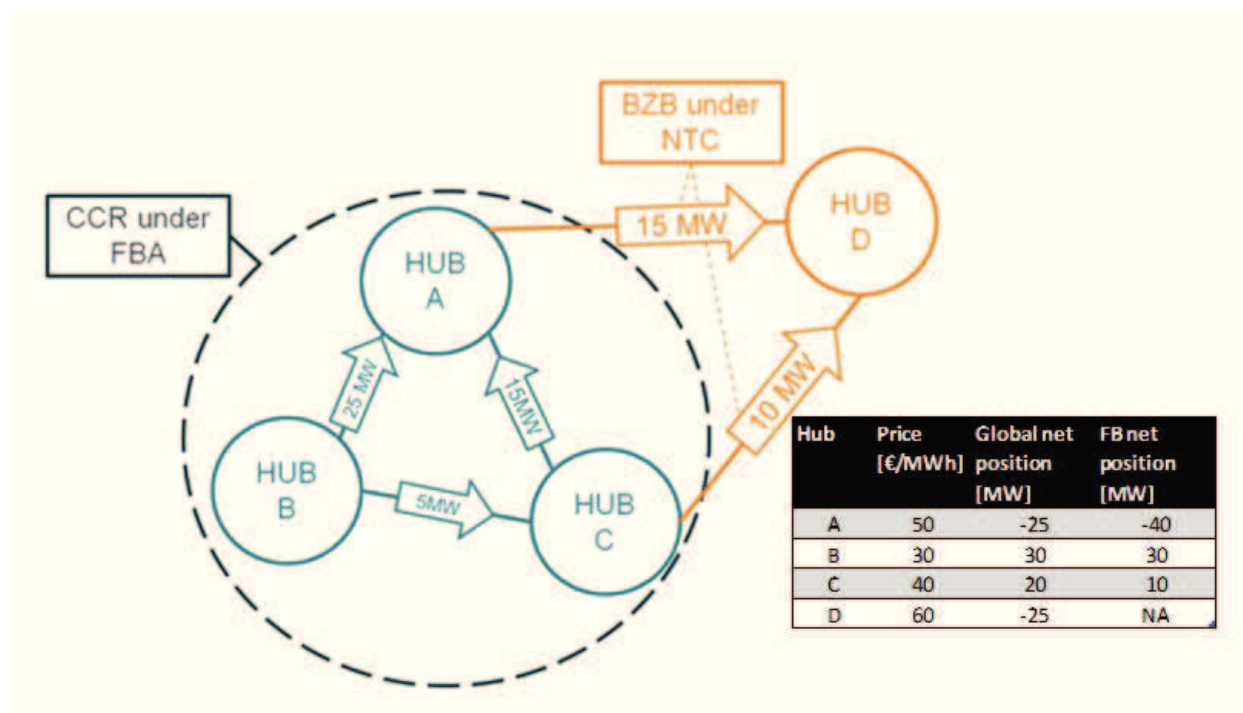
The calculation of AAF uses the Flow Based parameters and the results of the Flow Based Approach (net positions of exchanges within the CCR using the Flow Based Approach). The second proposal would allow TSOs to agree upon a different methodology for calculating the Commercial Flow within a CCR under the condition that the total sum of Commercial Flow on the Bidding Zone Borders of each respective hub equals the net position resulting from allocation based on the Flow Based Approach within the respective CCR. Which methodology will each time be used depends on the capacity calculation methodology to be prepared and developed by the respective CCR.

Example

Considering that:

- one CCR with 3 hubs (A, B, C) and 3 Bidding Zone borders (BZB_{AB} , BZB_{BC} and BZB_{CA}) apply allocation based on the FB Approach; and
- a fourth hub D has two Bidding Zone borders (BZB_{AD} and BZB_{CD}) which would form (part of) a second CCR applying allocation based on the Coordinated NTC Approach,

from market coupling only the flow over BZB_{BC} and BZB_{CA} and the global net positions of all hubs and prices are derived. In order to obtain the net positions of hubs A, B and C resulting from allocation based on the FB Approach, the exchanges of Bidding Zone borders outside the CCR need to be subtracted, as presented below:



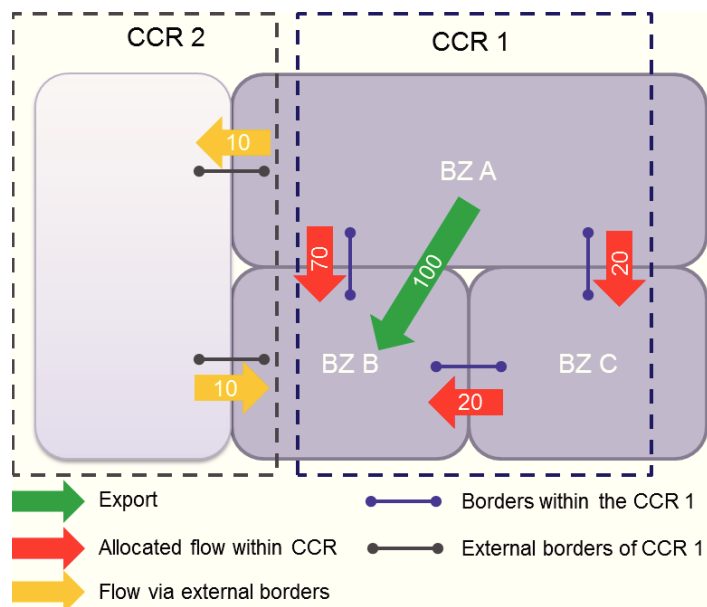
It is clear that from the market coupling the flow over Bidding Zone borders within the CCR applying the Flow Based Approach is unknown. By using the Flow Based parameters or another calculated value, the Commercial Flow over all Bidding Zone borders can be calculated.

2. External Flow and External Flow Value

The “External Flow Value” is only applicable under the Flow Based Approach using AAF to determine the Commercial Flow. Under the Flow Based Approach only the grid of the CCR applying this methodology is modelled for capacity allocation. The result from the physical representation of the grid is that, as in real life, not all flows generated by exchanges between the hubs of a CCR will flow over the Bidding Zone borders within that CCR. The concept of “External Flow” is introduced to model this concept.

The “External Flow” is, thus, the flow [in MW] passing outside the CCR resulting from exchanges between hubs within that CCR. Because the External Flow is the result from exchanges between two hubs and the result from a calculation, it is not to be confounded with the concept of loop flows but needs to be denoted as a transit flow.

The “External Flow” is calculated as the remainder of the flow resulting from an exchange after the AAF is calculated for each Bidding Zone border within the CCR. In the example below an exchange of 100 MW between Bidding Zone A and Bidding Zone B will result in a flow over all Bidding Zone borders within the CCR of 90 MW. The remainder of the exchange is then considered to pass outside the CCR and will be modelled as External Flow.



The “External Flow Value” is the congestion income [in €] assigned to the External Flow. However since the Congestion Income is generated due to exchanges within the CCR, **no Congestion Income is generated through the External Flow** and it is only **assigned** to the External Flow for calculation purposes.

3. Net Border Income

The “Net Border Income” can be expressed as the Congestion Income minus the remuneration for Long Term Transmission Rights per side of the Bidding Zone border. In order to calculate the Net Border Income, first the Congestion Income needs to be split per side of the Bidding Zone border according to the rules in of the CID Methodology. Secondly, the remuneration of Long Term Transmission Rights per Bidding Zone border needs to be split per side of the Bidding Zone border. The reason for defining the Net Border Income not per Bidding Zone border, but per side of the Bidding Zone border is that in case of using AAF to determine the Commercial Flow and in case an External Flow is present, the Congestion Income and remuneration of Long Term Transmission Rights for each side of a Bidding Zone border can be different.

IV. Collection and distribution of Congestion Income to the Bidding Zone Borders

This section sets out the process followed by the entities responsible for the collection of the Congestion Income arising from the Single Day-Ahead Coupling and from the Single Intraday Coupling, i.e. Central Counter Parties or Shipping Agents. This process applies to collection of Congestion Income in Title 2 of the CID Methodology proposal, which sets out some common rules for CID from the moment Congestion Income is generated and collected by the responsible entity and until CID takes place on a border or within a CCR.

For Congestion Income distribution under both the Coordinated NTC Approach and the FB Approach, the Congestion Income to be assigned to each Bidding Zone border is calculated differently for each timeframe:

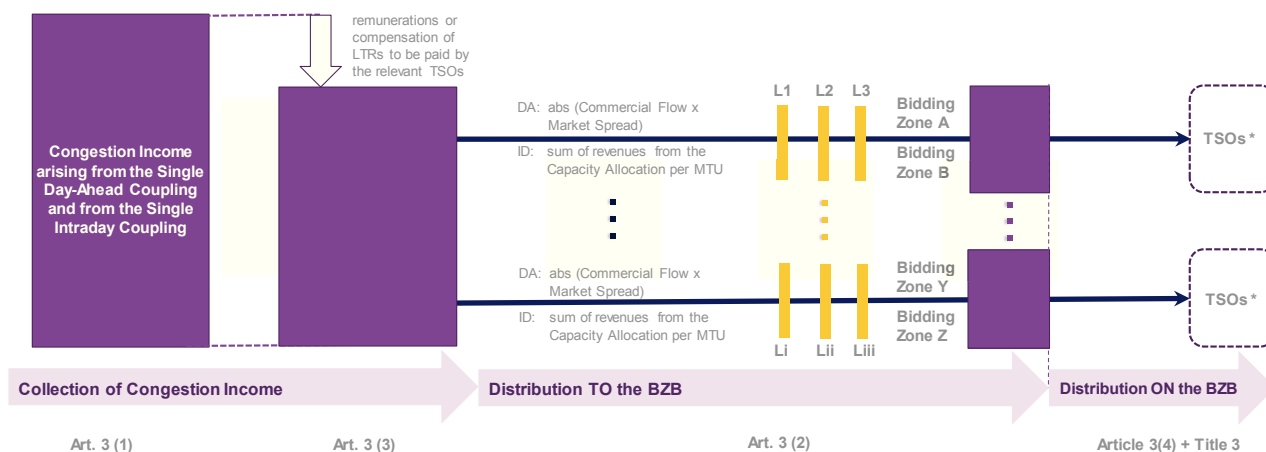
- a. for the Day-Ahead Market Time-frame the Congestion Income generated on a Bidding Zone border will be calculated as the absolute value of the product of the Commercial Flow times the Market Spread; whereas
- b. for the Intraday Market Time-Frame the Congestion Income will be calculated as the sum of all revenues from the capacity allocation per MTU.

Due to the obligations of TSOs to pay any remuneration to Long Term Transmission Rights (LTRs) holders in accordance with the applicable legislation and the Harmonised Allocation Rules, any remuneration of LTRs have to be deducted from the Congestion Income to be assigned to each Bidding Zone border.

It has to be made clear that the remuneration to LTRs holders which is deducted from the Congestion Income to be assigned to each Bidding Zone border only considers the return of those LTRs to the Day Ahead timeframe. The reimbursement paid to LTRs holders for curtailment of those LTRs is not in scope of the CID methodology and is fully covered under the EU HAR.

The Central Counter Parties, Shipping Agents, or entities assigned to distribute the Congestion Income within the timeframes of Article 73 (3) of the CACM Regulation: no more than a week.

The following picture summarizes the whole CID process: (i) the collection of Congestion Income by the relevant Central Counter Parties or Shipping Agents, (ii) the distribution to the Bidding Zone borders, and finally (iii) the distribution of Congestion Income on each Bidding Zone Border. The latter is covered in the next section of the document and mainly in Title 3 of the CID Methodology proposal. All references are to articles within the CID Methodology proposal.



(*) through the example, "TSO" includes TSOs and other legal entities owning an interconnector, including exempted interconnectors

V. Congestion Income Distribution on the Bidding Zone border under Coordinated NTC Approach and Flow-Based Approach

1. General rules and default sharing keys

This section provides further explanation of the rules for sharing the Congestion Income among the relevant TSOs on both sides of a Bidding Zone border. These rules apply to the Congestion Income generated based on both the Coordinated NTC Approach and FB Approach (Title 3 of CID Methodology).

After the distribution of Congestion Income to each Bidding Zone border as explained above (section IV), the TSOs on both sides of the Bidding Zone borders have to share the Congestion Income. This will take place:

- a) by firstly assigning the Congestion Income to the respective Interconnectors on that Bidding Zone border based on the respective share in installed capacity of the concerned Interconnectors or, in case of HVDC Interconnectors, based on the allocated capacity. Upon agreement by the TSOs on the Bidding Zone border and approval by the relevant NRAs, another parameter may apply which takes into account the Interconnectors' contribution to the allocated capacity; and then,
- b) by sharing the Congestion Income assigned to each Interconnector based on the respective applicable sharing key as described in the following provisions.

This process is necessary to cover situations where there are more than one owner of Interconnectors on at least one side of the border, or where there is a special sharing key in use for one of the Interconnectors.

After the assignment of Congestion Income to each interconnector, the TSOs on each side of the Bidding Zone border will receive their share of this Congestion Income based on:

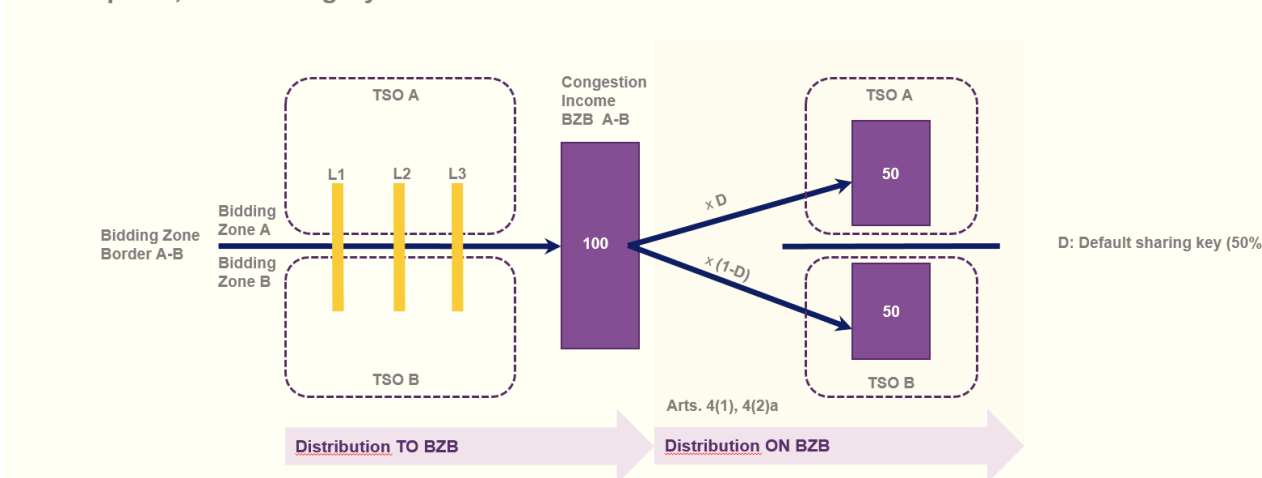
- a) either a default sharing key (50%-50% sharing key or a 100% sharing key if an Interconnector is 100% owned by a single TSO or another legal entity); or
- b) a specific sharing key for a certain interconnector.

Default sharing keys have been set in the CID Methodology as follows:

By default, Congestion Income shall be distributed equally (i.e. with a 50%-50% sharing key) between the TSOs at each side of the Bidding Zone border per MTU for each allocation timeframe.

According to the default solution, the CID Methodology provides that TSOs on each side of the Bidding Zone Border distribute the Congestion Income equally, i.e. with a default sharing key of 50% - 50%. No further action is needed by the TSOs nor the national regulatory authorities to implement the default sharing key. The following picture describes the application of the default sharing key when there is one TSO at each side of the Bidding Zone border.

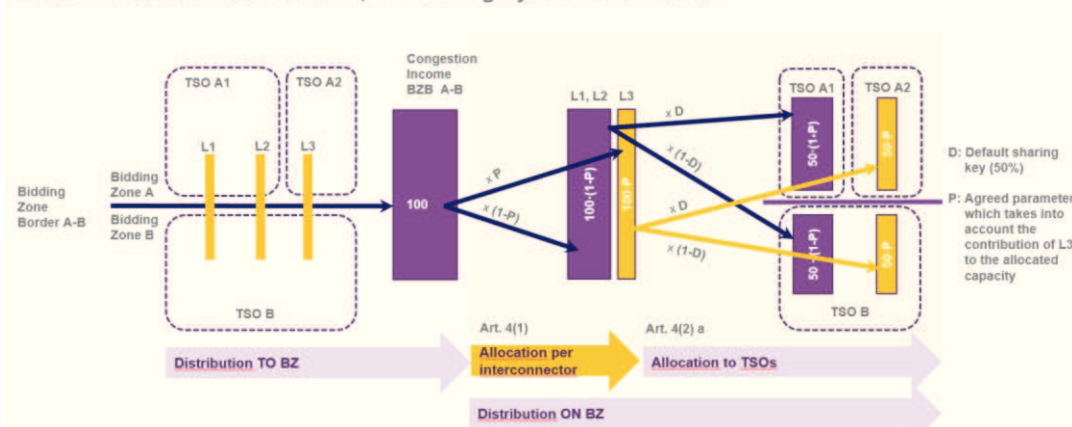
One TSO per BZ, default sharing key for all interconnectors



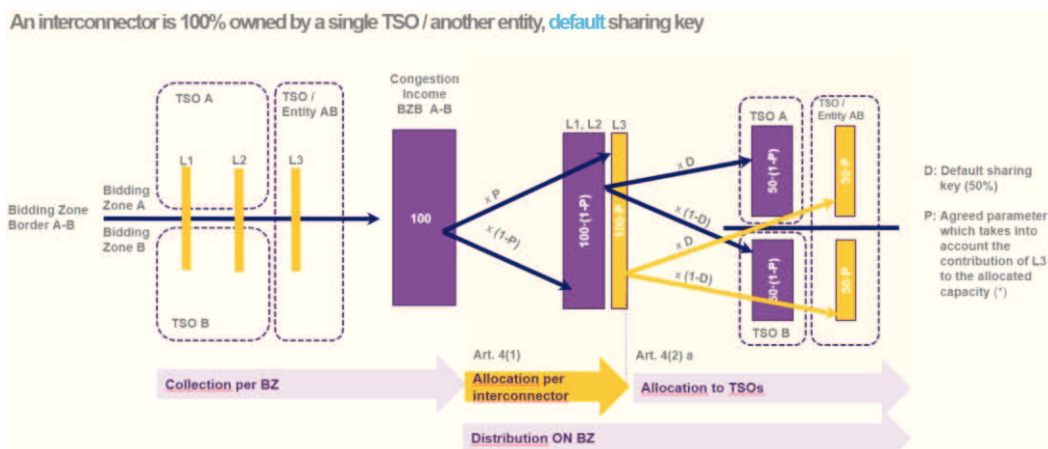
Still when applying the default sharing key some specific situations may appear that are covered in the CID Methodology Proposal:

- If there is more than one TSO on at least one side of the Bidding Zone border, the congestion income will be shared first between the interconnectors. Secondly, 50% of the total Congestion Income for that Interconnector is allocated to each side of the Bidding Zone Border.

More than one TSO at one side of the BZB, default sharing key for all interconnectors



- If an interconnector is 100% owned by a single TSO or another legal entity or if this interconnector has an exemption in accordance with Article 17 of Regulation 714/2009, the owner of such Interconnector shall retain 100% of the congestion income assigned to that interconnector.



If circumstances exist that so justify it, TSOs on both sides of a Bidding Zone Border should be allowed to agree on a specific sharing key per timeframe different from the default sharing key. These keys are further explained in the following section.

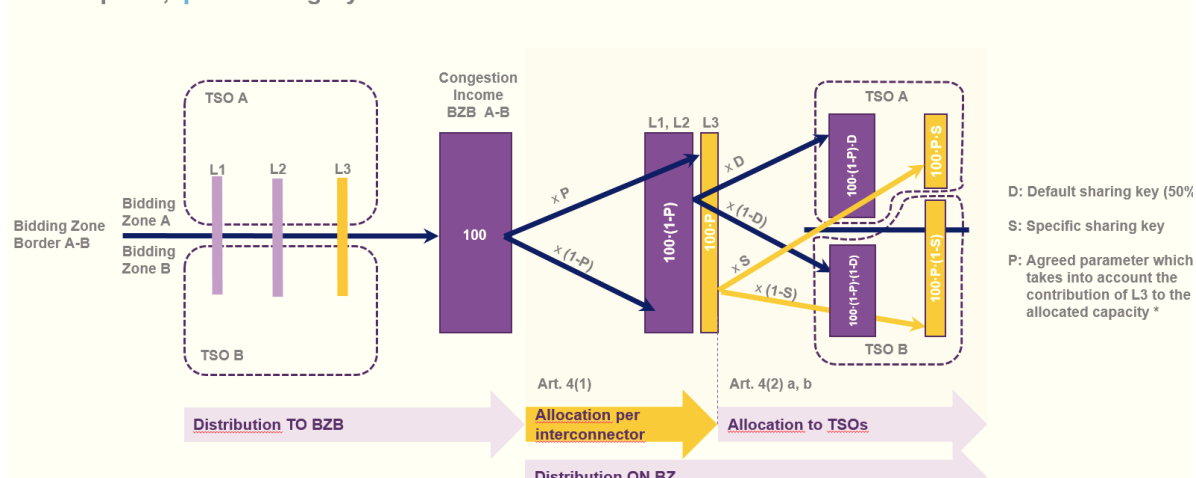
2. Specific sharing keys

Articles 5 and 6 of the CID Methodology provide some room for flexibility for TSOs when specific conditions are met. In these specific cases, TSOs are given the possibility to agree on specific sharing keys different from the default sharing key for certain interconnector(s). As described in section V.1, for the application of a specific sharing key the involved TSOs assign the Congestion Income on the respective Bidding Zone border first to the respective Interconnectors on that Bidding Zone border. Secondly, the total Congestion Income for an Interconnector subject to a specific sharing key is allocated to each side of the Bidding Zone Border according to the applicable specific sharing key.

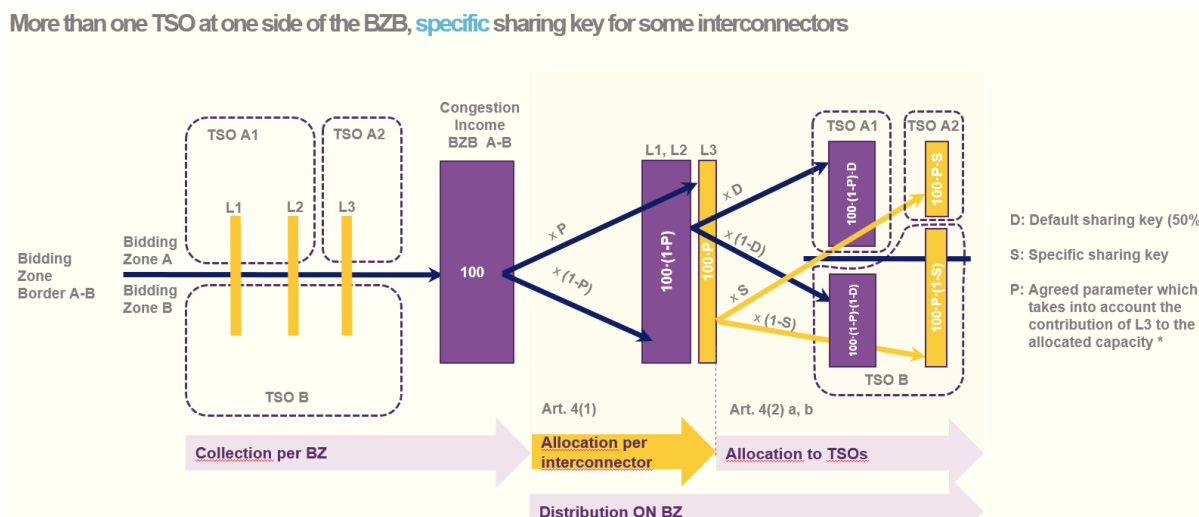
The examples below illustrate how the distribution of Congestion Income shall be done in cases where a specific sharing key is in use.

- One TSO at each side of the Bidding Zone border:

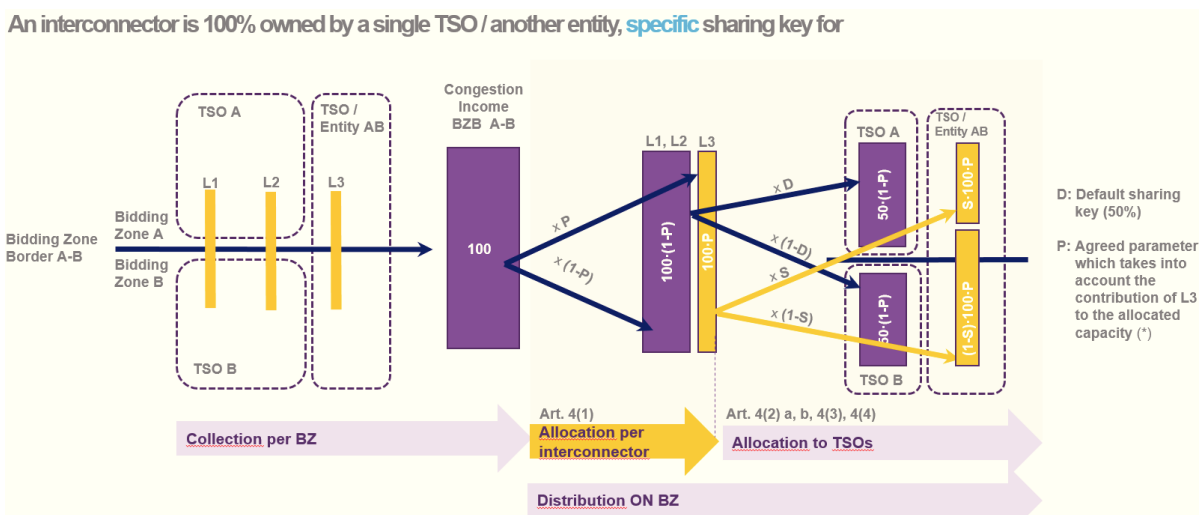
One TSO per BZ, specific sharing key for some interconnectors



- More than one TSO on at least one side of the Bidding Zone border:



- If an interconnector is 100% owned by a single TSO or another legal entity or if this interconnector has an exemption in accordance with Article 17 of Regulation 714/2009, the owner of such Interconnector shall retain 100% of the congestion income assigned to that interconnector.



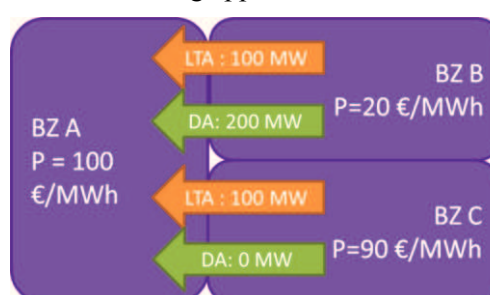
Specific sharing keys replacing the default sharing key are applicable only when specific conditions are met in accordance with Articles 5 and 6 of the CID Methodology proposal which relate to investment costs, benefits and allocation constraints.

Article 5 sets the general conditions which apply when TSOs agree and NRAs approve a specific sharing key. In addition to the general conditions of Article 5, specific sharing keys may replace the default sharing key and may apply when (at least one of) the following conditions apply:

- there is a difference in the investment costs borne by the owners of an interconnector or the ownership share. In such case the Congestion Income assigned to the respective interconnector may be distributed to the owners of the interconnector in proportion to their share in investment costs or ownership;
- the socio-economic net benefit of an interconnector is unequally distributed between the affected TSOs of the relevant Bidding Zones. In such case the Congestion Income assigned to the respective interconnector may be distributed to the affected TSOs of the relevant Bidding Zones based on a justified specific sharing key reflecting the distribution of the net benefits. This specific sharing key will apply for a limited period which may be prolonged subject to a reassessment of the distribution of net benefits.
- an allocation constraint, which covers the interdependencies of capacity allocation across different Bidding Zone Borders, is taken into account in the allocation of cross zonal capacity. In such case the Congestion Income collected on the concerned Bidding Zone Border(s) may be distributed amongst the impacted TSOs reflecting the relative impact of this allocation constraint. The following example illustrates a situation in which there is a need for a specific sharing key due to Allocation Constraints.

Example

In this example a situation is considered where Bidding Zone (BZ) A has a maximum import of 200 MW (allocation constraint) and the following applies:



In case there is an Allocation Constraint impacting the Capacity Allocation across different Bidding Zone borders, then a sharing mechanism across those Bidding Zone borders could be envisaged. Considering the example above where three Bidding Zones exist with two Bidding Zone borders (not necessarily constituting a CCR), Bidding Zone A has a maximum import value of 200 MW, i.e. the allocation constraint. On the two Bidding Zone borders AB and AC, 100 MW of LTRs have been allocated. In this simplified example the assumption is that all LTRs return to the Day Ahead (DA) market, where they merit the DA market spread.

Assuming that the DA market results in a flow of 200 MW over BZB AB, while there is no flow over BZB AC. The market spread between BZ A and B is significantly higher than between A and C, so trades executed between A and B generate more welfare than between A and C.

In the case described above, the CI over BZB AB would be 16000€, while no CI would be generated over BZB AC. However, since there is a price difference between BZ A and BZ C, the remuneration for the return of LTRs would amount to 1000€, resulting in a negative CI for BZ C (since the remuneration of LTRs is also equally shared).

It could be necessary that a sharing key between the two BZBs is introduced which ensures a fair distribution of the Congestion Income.

This example shows that indeed there could be a need for a specific sharing key due to Allocation Constraints. Additionally, these Allocation Constraints could not only impact the CID within a CCR, but as well between different CCRs. Therefore, this example also differs from the additional sharing key introduced later in the CID methodology (see below under 3), as the additional key specifies a number of prerequisites such as being applied within one CCR.

CWE NRAs required the TSOs to investigate the implementation of advanced hybrid coupling. This concept imposes FB properties on borders outside the CCR applying FB by taking into account the impact of a trade over the Coordinated NTC BZB in the FB allocation, i.e. trades over a Coordinated NTC BZB would be put into competition with trades within the FB area for the scarce capacity of network elements (critical branches). In turn, this would allow a reduction of flow on a BZB applying Coordinated NTC when more welfare can be generated by executing a competing trade. The result could be that the flow over Coordinated NTC BZB is reduced, while a positive market spread is present, risking a negative net congestion for the Coordinated NTC BZB.

CWE TSOs are currently investigating the feasibility of such mechanism and the potential impact on CID. Given that this analysis is still ongoing, impacts are not mapped yet and CCRs are currently unknown, it is of key importance to include some flexibility for CID such as addressed in Article 6. Otherwise the restrictions laid down in the CID Methodology Proposal risk to compromise potential improvements and further evolutions to capacity allocation mechanisms.

3. Additional rules for Congestion Income Distribution

a) Rule addressing the External Flow Value

Where an External Flow Value exists, a share of 50% of the External Flow Value shall be allocated to the TSOs of the CCR which are hosting the respective External Flows. These TSOs shall allocate this External Flow Value proportionally (pro rata) to the External Flows hosted by each TSO (in MW). The remaining 50% of the External Flow Value shall be shared among all Bidding Zone borders within the relevant CCR, causing the external flow, proportionally (pro rata) to the Commercial Flow on each Bidding Zone border within the CCR and the External Flow.

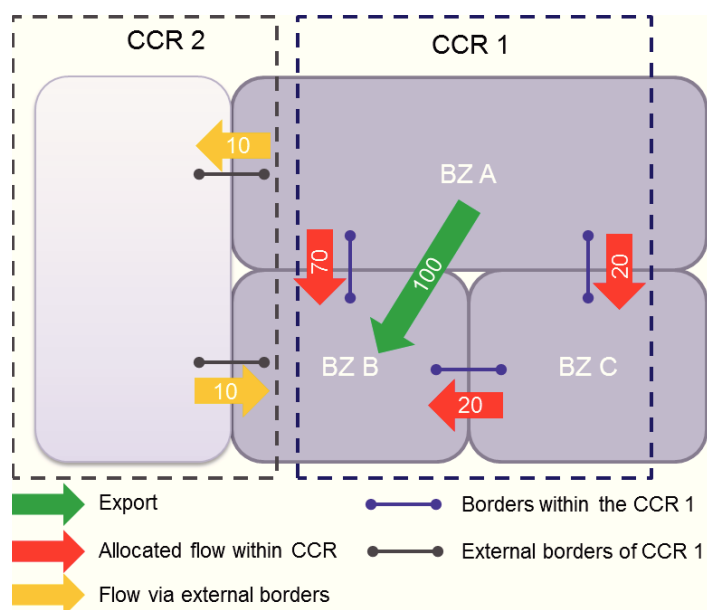
Example

Assuming we have the example below:

- a market spread between BZ A and BZ B of 20 €/MWh,
- an External Flow of 10 MW; and
- an External Flow Value of 200€,

the default sharing key and the additional rule apply as follows:

- i. “a share of 50% of the External Flow Value shall be allocated to the TSOs of the CCR which are hosting the respective External Flows”, i.e.
 - o Half of the External Flow Value shall be allocated to the TSOs of BZ A and BZ B.
- ii. “These TSOs shall allocate this External Flow Value proportionally (pro rata) to the External Flows hosted by each TSO (in MW)”, i.e.
 - o since both TSOs (assuming only one TSO per BZ) are hosting an equal External Flow, both receive 50€.
- iii. The remaining 50% of the External Flow Value shall be shared among all Bidding Zone borders within the relevant CCR, causing the external flow, proportionally (pro rata) to the Commercial Flow on each Bidding Zone border within the CCR and the External Flow, i.e.
 - o the sum of Commercial Exchanges and External Flow is 120 MW;
 - o the remaining External Flow Value equal to €100 shall be assigned to each Bidding Zone border in following manner:
 - a. BZB AB: 58.3€;
 - b. BZB BC: 16.6€;
 - c. BZB AC: 16.6€;
 - d. External border (BZB AB): 8.3€
- iv. Assuming the default sharing keys applies for all borders within the CCR, the share of the External Flow Value per Bidding Zone can be calculated as:
 - a. $BZ A = 50€ (2) + 29.15€ (3.i) + 8.3€ (3.iii) + 4.15€ (3.iv) = 91.6€$
 - b. $BZ B = 50€ (2) + 29.15€ (3.i) + 8.3€ (3.ii) + 4.15€ (3.iv) = 91.6€$
 - c. $BZ C = 8.3€ (3.ii) + 8.3€ (3.iii) = 16.6€$



b) Rule addressing “non-intuitive Commercial Flows”

Rule addressing Commercial Flows in opposite direction of the Market Spread (hereafter referred to as “non-intuitive Commercial Flows”): In case of non-intuitive Commercial Flows the TSOs within the same CCR shall redistribute the Congestion Income on each Bidding Zone border as follows:

- i. under the FB Approach, where the AAF has been used to determine the Commercial Flow the absolute values of all Congestion Incomes for all Bidding Zone borders and External Flow Values shall be proportionally adjusted to ensure that their sum matches the Congestion Income which is available for distribution within entire CCR;
- ii. under Coordinated NTC Approach or when the FB Approach is used and the AAF has not been used to determine the Commercial Flow the involved TSOs shall proportionally adjust all absolute values of all Congestion Incomes for each Bidding Zone border to ensure that their sum matches the Congestion Income which is available for distribution within the entire CCR.

In case non intuitive Commercial Flows are allowed in the Single Day-Ahead and Single Intraday coupling algorithm, an adjustment of the Congestion Income per border is needed in order to align the total Congestion Income generated within the CCR with the sum of Congestion Income per border.

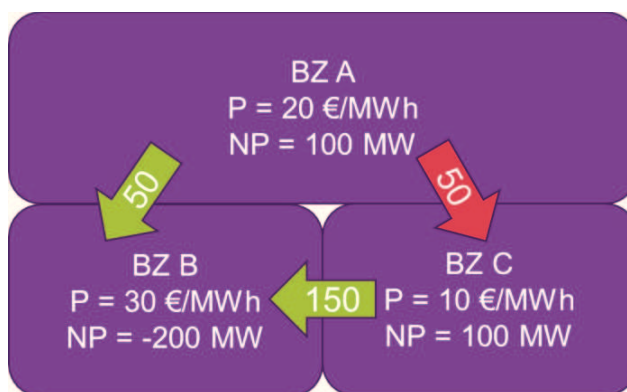
Example

The example below shows a Commercial Flow from a high priced area to a low priced area indicated by the red arrow. Would the Congestion Income in the CCR be calculated by summing the Commercial Flow times the Market Spread for each Bidding Zone border, at the result would be a Congestion Income of 4000€:

- i. BZB AB: 500€
- ii. BZB AC: 500€ (border with counter intuitive flows)
- iii. BZB BC: 3000€

However, when calculating the Congestion Income generated within the CCR, the total Congestion Income equals to 3000€. In order to align the Congestion Income for each Bidding Zone border with the Congestion Income generated within the CCR a pro rata adjustment is needed. This results in a Congestion Income of:

- i. BZB AB: $500/4000 * 3000€ = 375€$
- ii. BZB AC: $500/4000 * 3000€ = 375€$
- iii. BZB BC: $3000/4000 * 3000€ = 2250€$

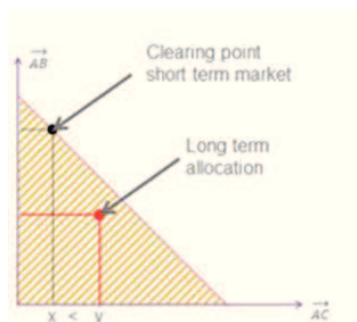


c) Rule addressing non-negative Net Border Income

In case that the remuneration for Long Term Transmission Rights exceed the Congestion Income assigned to a side of a Bidding Zone border the TSOs within the same CCR shall share the amount of the remuneration of Long Term Transmission Rights which exceeds the Congestion Income of a side of a Bidding Zone border among themselves. The sharing shall take place proportionally to their Net Border Income from the respective CCR in order to ensure that all Net Border Incomes within the same CCR are non-negative under the conditions that:

- i. the determination of long term Offered Capacity had been coordinated and agreed by the TSOs within the CCR; and
- ii. the amount of long term Cross-Zonal Capacity which is subject to remuneration (e.g. FTRs or PTRs with UIOSI) does not exceed the day ahead Offered Capacity for the respective MTU.

This additional rule addresses the revenue adequacy for each TSO by ensuring that the net congestion income over all timeframes is non negative. Because two different allocation methods are used in the DA and LT time frame it could happen that the Commercial Flow resulting from DA FB is smaller than the Long Term Allocated values. Although the Long Term Allocated values were included in the FB domain, i.e. all combinations of LTA were feasible in the DA market time frame.



The result would be that the remuneration of LTRs is higher than the congestion income generated over a specific border within the CCR. The CCR can therefore implement a rule that the negative net border income is shared proportionally between the TSOs. This rule can only be applied when revenue adequacy for the entire CCR is guaranteed, or when the LTA domain is included in the FB domain.