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**All CE TSOs' proposal for the dimensioning rules  
for FCR in accordance with Article 153(2) of the  
Commission Regulation (EU) 2017/1485 of 2  
August 2017 establishing a guideline on  
electricity transmission system operation**

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08.08.2018

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All Transmission System Operators of synchronous area Continental Europe are taking into account the following;

### Whereas

- (1) This document is a common proposal developed by all Transmission System Operators of synchronous area CE (hereafter referred to as “TSOs”) regarding the development of a proposal for the dimensioning rules for FCR (hereafter referred to as “FCR dimensioning rules proposal”) in accordance with Article 153 of the Commission Regulation (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation (hereafter referred to as “SO GL”).
- (2) The FCR dimensioning rules proposal takes into account the general principles and goals set in the SO GL as well as Regulation (EC) No 714/2009 of the European Parliament and 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”). The goal of the SO GL is the safeguarding of operational security, frequency quality and the efficient use of the interconnected system and resources. It sets for this purpose rules to determine the reserve capacity for FCR required for the synchronous area CE, which shall cover at least the reference incident, and also set rules to determine the shares of the reserve capacity on FCR required for each TSO of CE as initial FCR obligation.
- (3) The scope of the FCR dimensioning rules proposal is to establish rules to dimension the reserve for FCR required, while respecting the requirements set in Article 153(2) of the SO GL.
- (4) According to Article 6 of the SO GL, the expected impact of the FCR dimensioning rules proposal on the objectives of the SO GL has to be described. It is presented below. The proposed FCR dimensioning rules proposal generally contributes to the achievement of the objectives of the Article 4(1) of the SO GL.
- (5) In particular, the FCR dimensioning rules proposal responds to the objectives of SO GL to determine common operational security requirements, and to ensure the conditions for maintaining operational security and frequency quality level throughout the Union, by establishing rules for the adequate dimensioning capacity for FCR, which is essential to stabilize the system frequency at a stationary value after any imbalance between generation and consumption.
- (6) In conclusion, the FCR dimensioning rules proposal contributes to the general objectives of the SO GL to the benefit of all market participants and electricity end consumers.

SUBMIT THE FOLLOWING FCR DIMENSIONING RULES PROPOSAL TO ALL REGULATORY AUTHORITIES:

### Article 1 Subject matter and scope

The FCR dimensioning rules as determined in this proposal shall be considered as the common proposal of all TSOs of CE in accordance with Article 153(2) of SO GL.

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## Article 2 Definitions and interpretation

- 50 1. For the purposes of the FCR dimensioning rules proposal, terms used in this document shall have the  
51 meaning of the definitions included in Article 3 of the SO GL, Article 2 of Regulation (EC) 714/2009,  
52 Article 2 of Directive 2009/72/EC and Article 2 of Commission Regulation (EU) 543/2013.  
53
- 54 2. In this FCR dimensioning rules proposal, unless the context requires otherwise:  
55 a) the singular indicates the plural and vice versa;  
56 b) the table of contents and headings are inserted for convenience only and do not affect the  
57 interpretation of this FCR dimensioning rules proposal; and  
58 c) any reference to legislation, regulations, directive, order, instrument, code or any other enactment  
59 shall include any modification, extension or re-enactment of it then in force.

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## Article 3 Dimensioning rules for the TSOs of the synchronous area CE

62 The FCR dimensioning for the synchronous area CE in positive and negative direction is equal to the  
63 reference incident of 3000 MW, according to SO GL article 153(2b.i).

64  
65 The shares of the reserve capacity on FCR required for each TSO  $P_i$  as initial FCR obligation for a  
66 considered calendar year  $t$  shall be based on the following expression, according to Article 153(2d) for all  
67 TSOs in SA CE:

$$P_{i,t} = FCR_{dimensioning} \cdot \left( \frac{G_{i,t-2} + L_{i,t-2}}{G_{u,t-2} + L_{u,t-2}} \right)$$

68 With:

- 69 •  $P_{i,t}$  being the initial FCR obligation for TSO  $i$  for the calendar year  $t$  ;  
70 •  $FCR_{dimensioning}$  being the FCR dimensioning value calculated for synchronous area CE;  
71 •  $G_{i,t-2}$  being the electricity generated in the control area  $i$  (including the electricity production for  
72 exchange of reserves and scheduled electricity production from jointly operated units or groups)  
73 during the second last calendar year with respect to the considered year  $t$  ;  
74 •  $L_{i,t-2}$  being the electricity consumption in the control area  $i$  during the second last calendar year  
75 with respect to the considered year  $t$  ;  
76 •  $G_{u,t-2}$  being the total (sum of) electricity production in all control areas of the synchronous area  
77 CE during the second last calendar year with respect to the considered year  $t$  ;  
78 •  $L_{u,t-2}$  being the total consumption in all control areas of the synchronous area CE during the  
79 second last calendar year with respect to the considered year  $t$  .

80  
81 Every year but not later than March 31<sup>th</sup>, each TSO of the synchronous area CE shall provide to each other  
82 the data regarding the generation and consumption in its control area in the previous calendar year.

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## Article 4 Publication and implementation of the FCR dimensioning rules proposal

- 85 1. The TSOs shall publish the FCR dimensioning rules proposal without undue delay after all NRAs have  
86 approved the proposal or a decision has been taken by the Agency for the Cooperation of Energy  
87 Regulators in accordance with Article 6 (1) and (8) of the SO GL.  
88

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- 89 2. The TSOs shall implement the FCR dimensioning rules proposal provided one month after the  
90 regulatory authorities have approved the proposal in accordance with Article 6(3) SO GL or a decision  
91 has been taken by the Agency in accordance with Article 6(8) SO GL.

92 **Article 5**  
93 **Language**

94 The reference language for this FCR dimensioning rules proposal shall be English. For the avoidance of  
95 doubt, where TSOs need to translate this FCR dimensioning rules proposal into their national language(s),  
96 in the event of inconsistencies between the English version published by TSOs in accordance with Article 8  
97 of the SO GL Regulation and any version in another language, the relevant TSOs shall, in accordance with  
98 national legislation, provide the relevant national regulatory authorities with an updated translation of the  
99 FCR dimensioning rules proposal.  
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# Explanatory note for the FCR dimensioning rules proposal

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## Explanatory note

- 1 An appropriate amount of FCR available in the synchronous area is essential to stabilize the system  
2 frequency at a stationary value after any imbalance between generation and consumption.
- 3 The basic criterion used for FCR dimensioning is to withstand the reference incident in the synchronous  
4 area by containing the system frequency within the maximum frequency deviation and stabilizing the  
5 system frequency within the maximum steady-state frequency deviation.
- 6 The reference incident is defined as the maximum expected instantaneous power deviation between  
7 generation and demand in the synchronous area for which the dynamic behaviour of the system is designed.  
8 This expected instantaneous power deviation includes the losses of the largest power generation modules or  
9 loads, loss of a line sector or a bus bar, or loss of a HVDC interconnector. The SO GL (Article 153 (2b.i))  
10 sets the reference incident for CE to 3000 MW in both directions.
- 11 This criterion assumes a balanced situation when the incident occurs. In order to consider prior imbalances  
12 derived from changes in demand, renewable generation or the market-induced imbalances, the  
13 dimensioning of FCR capacity can be calculated by combining the probability of forced instantaneous  
14 outages with the probability of used FCR due to the already existing frequency deviations (not associated  
15 with generation trips).
- 16 The SO GL (Article 153 2(c)) allows the possibility for the synchronous area CE to define and apply a  
17 dimensioning approach to calculate the reserve capacity on FCR that must at least cover the reference  
18 incident, and based on the principle of covering the imbalances in the synchronous area that are likely to  
19 happen once in 20 years. This probabilistic methodology assumes the following starting hypothesis such as  
20 full activation time of automatic FRR, tripping rates of the generation plants, patterns of load, generation  
21 and inertia (including synthetic inertia), which are difficult to estimate and have a strong influence on the  
22 results.
- 23 On the other hand, in the recent past, the FCR capacity dimensioned in CE (equal to the reference incident  
24 3000 MW in both directions) has proven to be enough to ensure the conditions for maintaining the  
25 frequency quality level and respecting the operational security requirements.
- 26 For all these exposed above, the FCR dimensioning capacity in CE shall be equal to the reference incident  
27 for positive and negative directions.
- 28 According to the Article 153(2) of Commission Regulation (EU) 2017/1485 establishing a guideline on  
29 electricity transmission system operation, by 12 months after entry into force of this Regulation, all TSOs  
30 of a synchronous area shall jointly develop a common proposal regarding the dimensioning rules for FCR,  
31 which shall comply with the following requirement:
- 32 • The reserve capacity for FCR required for the synchronous area shall cover at least the reference  
33 incident and, for the CE and Nordic synchronous areas, the results of the probabilistic dimensioning  
34 approach for FCR carried out pursuant to point (c);
  - 35 • For the CE and Nordic synchronous areas, all TSOs of the synchronous area shall have the right to  
36 define a probabilistic dimensioning approach for FCR taking into account the pattern of load, generation  
37 and inertia, including synthetic inertia as well as the available means to deploy minimum inertia in real-  
38 time in accordance with the methodology referred to in Article 39, with the aim of reducing the  
39 probability of insufficient FCR to below or equal to once in 20 years.
- 40 This proposal takes into account all the previous requirements.
- 41 Finally, and according to the Article 6(3) this proposal shall be subject to approval by all regulatory  
42 authorities of the synchronous area CE.

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**All CE TSOs' proposal for the limits on the amount of exchange and sharing of FRR between synchronous areas in accordance with Article 176(1) and Article 177(1) of the Commission Regulation (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation**

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08.08.2018

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All Transmission System Operators of synchronous area Continental Europe are taking into account the following;

8

### Whereas

- 9 (1) This document is a common proposal developed by all Transmission System Operators of  
10 synchronous area CE (hereafter referred to as “TSOs”) regarding the development of the limits on  
11 the amount of exchange and sharing of FRR between synchronous areas involving Continental  
12 Europe (hereafter referred to as “FRR exchange and sharing limits between synchronous areas”) in  
13 accordance with Articles 176(1) and 177(1) of Commission Regulation (EU) 2017/1485  
14 establishing a guideline on electricity transmission system operation (hereafter referred to as “SO  
15 GL”). This proposal is hereafter referred to as “FRR limits on exchange and sharing between SA  
16 proposal”.
- 17
- 18 (2) The FRR exchange and sharing limits between synchronous areas proposal takes into account the  
19 general principles and goals set in the SO GL, as well as Regulation (EC) No 714/2009 of the  
20 European Parliament and of the Council of 13 July 2009 on conditions for access to the network for  
21 cross-border exchanges in electricity (hereafter referred to as “Regulation (EC) No 714/2009”). The  
22 goal of the SO GL is the safeguarding of operational security, frequency quality and the efficient  
23 use of the interconnected system and resources. For this purpose, it sets requirements for limits on  
24 the amount of exchange as well as sharing of aFRR and mFRR between synchronous areas.
- 25
- 26 (3) The FRR limits on exchange and sharing between synchronous areas proposal takes into account  
27 the load-frequency control structure of each synchronous area in accordance with Article 139 of SO  
28 GL. The operation of load-frequency control processes is based on operational areas, where every  
29 area has their individual responsibilities with respect to the LFC structure. The superior structure is  
30 the synchronous area in which frequency is the same for the whole area.
- 31
- 32 (4) Article 176(1) and 177(1) of SO GL require all TSOs of each synchronous area to define a method  
33 to determine limits for the exchange and sharing of FRR with other synchronous areas in the  
34 synchronous area operational agreement. In particular:
- 35 • In accordance with Article 176(1), the method to determine limits for the exchange of FRR  
36 shall take into account the operational impact between the synchronous areas; the stability of  
37 the FRP of the synchronous area; the ability of the synchronous area to comply with the  
38 frequency quality target parameters defined in accordance with Article 127 and the FRCE  
39 target parameters defined in accordance with Article 128 of SO GL; and the operational  
40 security.
  - 41 • In accordance with Article 177(1), the method for determining the limits for sharing of FRR  
42 shall take into account: the operational impact between the synchronous areas; the stability of  
43 the FRP of the synchronous area; the maximum reduction of FRR that can be taken into  
44 account in the FRR dimensioning rules in accordance with Article 157 as a result of the FRR  
45 sharing; the ability of the TSOs of the synchronous area to comply with the frequency quality  
46 target parameters defined in accordance with Article 127 and the ability of the LFC blocks to  
47 comply with the FRCE target parameters defined in accordance with Article 128; and the  
48 operational security.
- 49
- 50 (5) The scope of the FRR limits on exchange and sharing between synchronous areas proposal is to  
51 establish the limits on the amount of exchange and sharing of FRR between synchronous areas in

52 order to respect operational security. This proposal does not apply to exchange or sharing of FRR  
53 within a synchronous area.

54  
55 (6) According to Article 6(2)(d)(ix) of the SO GL, it requires all TSOs to develop methodologies,  
56 conditions and values included in the synchronous area operational agreements in Article 118  
57 concerning the definition of limits on the amount of exchange of FRR between synchronous areas  
58 in accordance with Article 176(1) SO GL and limits on the amount of sharing FRR between  
59 synchronous areas in accordance with Article 177(1) SO GL. The hereafter presented exchange  
60 and sharing between synchronous areas proposal shall define the requested methodologies,  
61 conditions and values.

62  
63 (7) The FRR limits on exchange and sharing between synchronous areas proposal is to respond to the  
64 objective of SO GL pursuant to Article 4(1) to ensure the conditions for maintaining a frequency  
65 quality level of all synchronous areas throughout the Union, by permitting exchange and sharing  
66 between synchronous areas under certain limits in order to avoid detrimental effect on each  
67 synchronous area.

68  
69 (8) In conclusion, the FRR limits on exchange and sharing between synchronous areas proposal  
70 contributes to the general objectives of the SO GL to the benefit of all market participants and  
71 electricity end consumers.

72  
73 **SUBMIT THE FOLLOWING FRR LIMITS ON EXCHANGE AND SHARING BETWEEN**  
74 **SYNCHRONOUS AREAS PROPOSAL TO ALL REGULATORY AUTHORITIES:**

75 **Article 1**  
76 **Subject matter and scope**

77 The FRR limits on exchange and sharing between synchronous areas as determined in this proposal shall be  
78 considered as the common proposal of all TSOs of CE in accordance with Article 176 and 177 of the SO  
79 GL. This proposal does not apply to exchange and sharing of FRR within the synchronous area CE.

80 **Article 2**  
81 **Definitions and interpretation**

82 1. For the purposes of the FRR limits on exchange and sharing between synchronous areas proposal,  
83 terms used in this document shall have the meaning of the definitions included in Article 3 of the SO  
84 GL, Article 2 of Regulation (EC) 714/2009, Article 2 of Directive 2009/72/EC and Article 2 of  
85 Commission Regulation (EU) 543/2013.

86  
87 2. In this FRR limits on exchange and sharing between synchronous areas proposal, unless the context  
88 requires otherwise:

- 89 a) the singular indicates the plural and vice versa;  
90 b) the table of contents and headings are inserted for convenience only and do not affect the  
91 interpretation of this FRR limits on exchange and sharing between synchronous areas proposal; and  
92 c) any reference to legislation, regulations, directive, order, instrument, code or any other enactment  
93 shall include any modification, extension or re-enactment of it then in force.

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### Article 3

#### Limits on the amount of exchange and sharing of FRR between synchronous

- 96 1. A reserve receiving TSO of a LFC block involved in the exchange of aFRR and mFRR between  
97 synchronous areas, where synchronous area of Continental Europe is the reserve receiving synchronous  
98 area, shall ensure that at least 50 % of its total combined FRR capacity resulting from the aFRR and  
99 mFRR dimensioning rules according to the Article 157 of the SO GL and before any reduction due to  
100 the sharing of aFRR and mFRR according to Article 157(2) of the SO GL remains located within its  
101 LFC block.
- 102
- 103 2. Each TSO of a LFC block shall have the right to perform sharing of aFRR and mFRR with a LFC block  
104 in an adjacent synchronous area. In particular:
- 105 a) where the synchronous area CE is the reserve receiving synchronous area, the sharing of aFRR and  
106 mFRR is possible within the limits set by the aFRR and mFRR dimensioning rules in Article  
107 157(1), Article 157(2)(j, k) and Article 158 of the SO GL.
- 108 i. In case of sharing and pursuant to Article 157(2)(j, k) of the SO GL, the reduction of the  
109 positive (resp. negative) reserve capacity on FRR of a LFC block shall be limited to the  
110 difference, if positive, between the size of the positive (resp. negative) dimensioning incident  
111 and the reserve capacity on FRR required to cover the positive (resp. negative) LFC block  
112 imbalances during 99 % of the time, based on the historical records referred to Article  
113 157(2)(a). Additionally, the reduction of the positive reserve capacity shall not exceed 30 % of  
114 the size of the positive dimensioning incident;
- 115 b) where synchronous area CE is the reserve connecting synchronous area, no limits shall apply.

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### Article 4

#### Publication and implementation of the FRR limits on exchange and sharing between synchronous areas proposal

- 119 1. The TSOs shall publish the FRR limits on exchange and sharing between synchronous areas proposal  
120 without undue delay after all NRAs have approved the proposal or a decision has been taken by the  
121 Agency for the Cooperation of Energy Regulators in accordance with Article 6(8) of the SO GL.  
122
- 123 2. The TSOs shall implement the FRR limits on exchange and sharing between synchronous areas  
124 proposal provided one month after the regulatory authorities have approved the proposal in accordance  
125 with Article 6(3) SO GL or a decision has been taken by the Agency in accordance with Article 6(8)  
126 SO GL.

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### Article 5 Language

129 The reference language for this FRR limits on exchange and sharing between synchronous areas proposal  
130 shall be English. For the avoidance of doubt, where TSOs need to translate this FRR limits on exchange and  
131 sharing between synchronous areas proposal into their national language(s), in the event of inconsistencies  
132 between the English version published by TSOs in accordance with Article 8 of the SO GL Regulation and  
133 any version in another language, the relevant TSOs shall, in accordance with national legislation, provide  
134 the relevant national regulatory authorities with an updated translation of the FRR limits on exchange and  
135 sharing between synchronous areas proposal.  
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# **Explanatory note for the limits on the amount of exchange and sharing of FRR between synchronous areas**

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## Explanatory note

### 1 **Regarding Article 3:**

2 The exchange and sharing of aFRR and mFRR between synchronous areas is a process TSOs do not foresee  
3 to be implemented, at least before the implementation of the corresponding balancing platform performing  
4 cross-border activation of aFRR and mFRR, according to EB GL. In this sense, TSOs at a first stage are not  
5 able to perform security assessment of such exchange or sharing. TSOs' intention is not to block any kind  
6 of initiative in future, this is why the only rules considered for exchange or sharing of aFRR or mFRR,  
7 where receiving synchronous area is synchronous area CE, are the same rules applied to LFC Blocks within  
8 the synchronous area CE itself: i.e. at least 50% of the FRR capacity resulting from the FRR dimensioning  
9 rules shall remain located in the LFC block in case of exchange. For the avoidance of doubt this limit is  
10 applicable to the sum of sharing and exchange with TSOs from within and outside the synchronous area.  
11 When synchronous area CE is the reserve connecting synchronous area, no limits are foreseen at this stage.

12 This proposal relies on the fact that if such an exchange or sharing of aFRR and mFRR is going to be  
13 implemented in the future, specific security analysis studies will be needed in any case. Respective  
14 requirements and a corresponding notification process among TSOs as well as procedures for reservation of  
15 cross-border transmission capacities will have to be elaborated. Particularly, the ability of the synchronous  
16 area to comply with the frequency quality target parameters defined and the FRCE target parameters  
17 defined in accordance to Articles 176 and 177 of SO GL shall be considered. In this context additional  
18 requirements in terms of limited amount of mFRR might be necessary, leading to amendments of this  
19 proposal. In such a case, TSOs' concerns would be as anticipated as possible with national regulatory  
20 authorities.

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**All CE TSOs' proposal for the limits on the amount of exchange and sharing of RR between synchronous areas in accordance with Article 178(1) and Article 179(1) of the Commission Regulation (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation**

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All Transmission System Operators of synchronous area Continental Europe are taking into account the following;

8

### Whereas

- 9 (1) This document is a common proposal developed by all Transmission System Operators of  
10 synchronous area CE (hereafter referred to as “TSOs”) regarding the development of the limits on  
11 the amount of exchange and sharing of RR between synchronous areas involving Continental  
12 Europe (hereafter referred to as “RR exchange and sharing limits between synchronous areas”) in  
13 accordance with Article 178(1) and 179(1) of Commission Regulation (EU) 2017/1485 of 2  
14 August 2017 establishing a guideline on electricity transmission system operation (hereafter  
15 referred to as “SO GL”). This proposal is hereafter referred to as “RR limits on exchange and  
16 sharing limits between synchronous areas proposal”.
- 17
- 18 (2) The RR exchange and sharing limits between synchronous areas proposal takes into account the  
19 general principles and goals set in the SO GL/Regulation as well as Regulation (EC) No 714/2009  
20 of the European Parliament and of the Council of 13 July 2009 on conditions for access to the  
21 network for cross-border exchanges in electricity (hereafter referred to as “Regulation (EC) No  
22 714/2009”). The goal of the SO GL is the safeguarding of operational security, frequency quality  
23 and the efficient use of the interconnected system and resources. For this purpose it sets  
24 requirements for limits on the amount of exchange as well as sharing of RR between synchronous  
25 areas.
- 26
- 27 (3) The RR limits on exchange and sharing between synchronous areas proposal takes into account the  
28 load-frequency control structure of each synchronous area in accordance with Article 139 of SO  
29 GL. The operation of load-frequency control processes is based on operational areas, where every  
30 area has their individual responsibilities with respect to the LFC structure. The superior structure is  
31 the synchronous area in which frequency is the same for the whole area.
- 32
- 33 (4) Article 178(1) and 179(1) of SO GL require all TSOs of each synchronous area to define in the  
34 synchronous area operational agreement a method to determine limits for the exchange and sharing  
35 of RR with other synchronous areas. In particular:
- 36 • In accordance with Article 178(1), the method to determine limits for the exchange of RR shall  
37 take into account the operational impact between the synchronous areas; the stability of the  
38 RRP of the synchronous area; the ability of the synchronous area to comply with the frequency  
39 quality target parameters defined in accordance with Article 127 and the FRCE target  
40 parameters defined in accordance with Article 128 of SO GL; and the operational security.
  - 41 • In accordance with Article 179(1), the method for determining the limits for sharing of RR  
42 shall take into account: the operational impact between the synchronous areas; the stability of  
43 the RRP of the synchronous area; the maximum reduction of RR that can be taken into account  
44 in the RR dimensioning rules in accordance with Article 160 as a result of the RR sharing; the  
45 ability of the TSOs of the synchronous area to comply with the frequency quality target  
46 parameters defined in accordance with Article 127 and the ability of the LFC blocks to comply  
47 with the FRCE target parameters defined in accordance with Article 128; and the operational  
48 security.
- 49

- 50 (5) The scope of the RR limits on exchange and sharing between synchronous areas proposal is to  
51 establish the limits on the amount of exchange and sharing of RR between synchronous areas in  
52 order to respect operational security.  
53
- 54 (6) According to Article 6(2)(d)(x) of the SO GL, it requires all TSOs to develop methodologies,  
55 conditions and values included in the synchronous area operational agreement in Article 118  
56 concerning the definition of limits on the amount of exchange of RR between synchronous areas in  
57 accordance with Article 178(1) SO GL and limits on the amount of sharing FRR between  
58 synchronous areas in accordance with Article 179(1) SO GL. The hereafter presented exchange and  
59 sharing between synchronous areas proposal shall define the requested methodologies, conditions  
60 and values.  
61
- 62 (7) The RR limits on exchange and sharing between synchronous areas proposal responds to the  
63 objective of SO GL to ensure the conditions for maintaining a frequency quality level of all  
64 synchronous areas throughout the Union, by permitting exchange and sharing between synchronous  
65 areas under certain limits in order to avoid detrimental effects on each synchronous area.  
66
- 67 (8) In conclusion, the RR limits on exchange and sharing between synchronous areas proposal  
68 contributes to the general objectives of the SO GL and to the benefit of all market participants and  
69 electricity end consumers.  
70

71 SUBMIT THE FOLLOWING RR LIMITS ON EXCHANGE AND SHARING BETWEEN  
72 SYNCHRONOUS AREAS PROPOSAL TO ALL REGULATORY AUTHORITIES:

73 **Article 1**  
74 **Subject matter and scope**

75 The RR limits on exchange and sharing between synchronous areas as determined in this proposal shall be  
76 considered as the common proposal of all TSOs of CE, in accordance with Article 178 and 179 of the SO  
77 GL. This proposal does not apply to exchange or sharing of RR within the synchronous area CE.

78 **Article 2**  
79 **Definitions and interpretation**

- 80 1. For the purposes of the RR limits on exchange and sharing between synchronous areas proposal, terms  
81 used in this document shall have the meaning of the definitions included in Article 3 of the SO\_GL,  
82 Article 2 of Regulation (EC) 714/2009, Article 2 of Directive 2009/72/EC and Article 2 of Commission  
83 Regulation (EU) 543/2013.  
84
- 85 2. In this RR limits on exchange and sharing between synchronous areas proposal, unless the context  
86 requires otherwise:  
87 a) the singular indicates the plural and vice versa;  
88 b) the table of contents and headings are inserted for convenience only and do not affect the  
89 interpretation of this RR limits on exchange and sharing between synchronous areas proposal; and  
90 c) any reference to legislation, regulations, directive, order, instrument, code or any other enactment  
91 shall include any modification, extension or re-enactment of it then in force.

92 **Article 3**  
93 **Limits on the amount of exchange and sharing of RR between synchronous areas**

- 94 1. A reserve receiving TSO of a LFC block involved in the exchange of RR between synchronous areas,  
95 where synchronous area CE is the reserve receiving synchronous area, shall ensure that at least 50 % of  
96 its total RR capacity resulting from the RR dimensioning rules according to the Article 160 of the SO  
97 GL and before any reduction due to the sharing of RR according to Article 160(5) of the SO GL,  
98 remains located within its LFC block.  
99
- 100 2. Each TSO of a LFC block shall have the right to perform sharing of RR with a LFC block in an  
101 adjacent synchronous area. In particular:
- 102 a) in case the synchronous area CE is the reserve receiving synchronous area, the sharing of RR is  
103 performed within the limits set by the RR dimensioning rules in Article 160(4,5) and in Article 161  
104 of the SO GL.
- 105 b) in case the synchronous area of CE is the reserve connecting synchronous area, no limits shall  
106 apply.

107 **Article 4**  
108 **Publication and implementation of the RR limits on exchange and sharing between**  
109 **synchronous areas proposal**

- 110 1. The TSOs shall publish the RR limits on exchange and sharing between synchronous areas proposal  
111 without undue delay after all NRAs have approved the proposal or a decision has been taken by the  
112 Agency for the Cooperation of Energy Regulators in accordance with Article 6(8) of the SO GL.  
113
- 114 2. The TSOs shall implement the RR limits on exchange and sharing between synchronous areas proposal  
115 provided one month after the regulatory authorities have approved the proposal in accordance with  
116 Article 6(3) SO GL or a decision has been taken by the Agency in accordance with Article 6(8) SO GL.

117 **Article 5**  
118 **Language**

119 The reference language for this RR limits on exchange and sharing between synchronous areas proposal  
120 shall be English. For the avoidance of doubt, where TSOs need to translate this RR limits on exchange and  
121 sharing between synchronous areas proposal into their national language(s), in the event of inconsistencies  
122 between the English version published by TSOs in accordance with Article 8 of the SO GL Regulation and  
123 any version in another language, the relevant TSOs shall, in accordance with national legislation, provide  
124 the relevant national regulatory authorities with an updated translation of the RR limits on exchange and  
125 sharing between synchronous areas proposal.  
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# **Explanatory note for the limits on the amount of exchange and sharing of RR between synchronous areas**

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08.08.2018

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## Explanatory note

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### 2 **Regarding Article 3:**

3 The exchange and sharing of RR between synchronous areas is a process TSOs do not foresee to be  
4 implemented at least before the implementation of the corresponding balancing platform performing cross-  
5 border activation of RR according to EB GL. In this sense TSOs, at a first stage are not able to perform  
6 security assessment of such exchange or sharing. TSOs' intention is not to block any kind of initiative in  
7 future, this is why the only rules considered for exchange or sharing of RR where receiving synchronous  
8 area is synchronous area CE are the same rules applied to LFC blocks within the synchronous area CE  
9 itself: i.e. at least 50% of the RR capacity resulting from the RR dimensioning rules shall remain located in  
10 the LFC block in case of exchange.

11 When synchronous area CE is the reserve connecting synchronous area, no limits are foreseen at this stage.

12 This proposal relies on the fact that if such an exchange or sharing of RR is going to be implemented in the  
13 future, specific security analysis studies will be needed in any case and respective requirements and a  
14 corresponding notification process among TSOs as well as procedures for reservation of cross-border  
15 transmission capacities will have to be elaborated. Particularly, the ability of the synchronous area to  
16 comply with the frequency quality target parameters defined and the FRCE target parameters defined in  
17 accordance to articles 178 and 179 of SO GL shall be considered. In this context, additional requirements in  
18 terms of limited amount of RR might be necessary leading to amendments of this proposal. In such a case,  
19 TSOs' concerns would be as anticipated as possible with national regulatory authorities.