
**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**

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.
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- 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 .

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81 Every year but not later than March 31th, 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.
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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

08.08.2018

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.

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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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 the limits on the amount of exchange and sharing of FRR between synchronous areas involving Continental Europe (hereafter referred to as “FRR exchange and sharing limits between synchronous areas”) in accordance with Articles 176(1) and 177(1) of Commission Regulation (EU) 2017/1485 establishing a guideline on electricity transmission system operation (hereafter referred to as “SO GL”). This proposal is hereafter referred to as “FRR limits on exchange and sharing between SA proposal”.
- (2) The FRR exchange and sharing limits between synchronous areas 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 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”). The goal of the SO GL is the safeguarding of operational security, frequency quality and the efficient use of the interconnected system and resources. For this purpose, it sets requirements for limits on the amount of exchange as well as sharing of aFRR and mFRR between synchronous areas.
- (3) The FRR limits on exchange and sharing between synchronous areas proposal takes into account the load-frequency control structure of each synchronous area in accordance with Article 139 of SO GL. The operation of load-frequency control processes is based on operational areas, where every area has their individual responsibilities with respect to the LFC structure. The superior structure is the synchronous area in which frequency is the same for the whole area.
- (4) Article 176(1) and 177(1) of SO GL require all TSOs of each synchronous area to define a method to determine limits for the exchange and sharing of FRR with other synchronous areas in the synchronous area operational agreement. In particular:
 - In accordance with Article 176(1), the method to determine limits for the exchange of FRR shall take into account the operational impact between the synchronous areas; the stability of the FRP of the synchronous area; the ability of the synchronous area to comply with the frequency quality target parameters defined in accordance with Article 127 and the FRCE target parameters defined in accordance with Article 128 of SO GL; and the operational security.
 - In accordance with Article 177(1), the method for determining the limits for sharing of FRR shall take into account: the operational impact between the synchronous areas; the stability of the FRP of the synchronous area; the maximum reduction of FRR that can be taken into account in the FRR dimensioning rules in accordance with Article 157 as a result of the FRR sharing; the ability of the TSOs of the synchronous area to comply with the frequency quality target parameters defined in accordance with Article 127 and the ability of the LFC blocks to comply with the FRCE target parameters defined in accordance with Article 128; and the operational security.
- (5) The scope of the FRR limits on exchange and sharing between synchronous areas proposal is to 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.

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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

08.08.2018

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.

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.
126

Explanatory note for the limits on the amount of exchange and sharing of RR between synchronous areas

08.08.2018

Explanatory note

1

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.