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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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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 establishing  
14 a guideline on electricity transmission system operation (hereafter referred to as “SO GL”). This  
15 proposal is hereafter referred to as “FRR limits on exchange and sharing between SA proposal”.
- 16
- 17 (2) The FRR exchange and sharing limits between synchronous areas proposal takes into account the  
18 general principles and goals set in the SO GL, as well as Regulation (EC) No 714/2009 of the  
19 European Parliament and of the Council of 13 July 2009 on conditions for access to the network for  
20 cross-border exchanges in electricity (hereafter referred to as “Regulation (EC) No 714/2009”). The  
21 goal of the SO GL is the safeguarding of operational security, frequency quality and the efficient use  
22 of the interconnected system and resources. For this purpose, it sets requirements for limits on the  
23 amount of exchange as well as sharing of aFRR and mFRR between synchronous areas.
- 24
- 25 (3) The FRR limits on exchange and sharing between synchronous areas proposal takes into account the  
26 load-frequency control structure of each synchronous area in accordance with Article 139 of SO GL.  
27 The operation of load-frequency control processes is based on operational areas, where every area  
28 has their individual responsibilities with respect to the LFC structure. The superior structure is the  
29 synchronous area in which frequency is the same for the whole area.
- 30
- 31 (4) Article 176(1) and 177(1) of SO GL require all TSOs of each synchronous area to define a method  
32 to determine limits for the exchange and sharing of FRR with other synchronous areas in the  
33 synchronous area operational agreement. In particular:
- 34 • In accordance with Article 176(1), the method to determine limits for the exchange of FRR shall  
35 take into account the operational impact between the synchronous areas; the stability of the FRP  
36 of the synchronous area; the ability of the synchronous area to comply with the frequency quality  
37 target parameters defined in accordance with Article 127 and the FRCE target parameters defined  
38 in accordance with Article 128 of SO GL; and the operational security.
  - 39 • In accordance with Article 177(1), the method for determining the limits for sharing of FRR shall  
40 take into account: the operational impact between the synchronous areas; the stability of the FRP  
41 of the synchronous area; the maximum reduction of FRR that can be taken into account in the  
42 FRR dimensioning rules in accordance with Article 157 as a result of the FRR sharing; the ability  
43 of the TSOs of the synchronous area to comply with the frequency quality target parameters  
44 defined in accordance with Article 127 and the ability of the LFC blocks to comply with the  
45 FRCE target parameters defined in accordance with Article 128; and the operational security.
- 46
- 47 (5) The scope of the FRR limits on exchange and sharing between synchronous areas proposal is to  
48 establish the limits on the amount of exchange and sharing of FRR between synchronous areas in  
49 order to respect operational security. This proposal does not apply to exchange or sharing of FRR  
50 within a synchronous area.
- 51

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

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

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

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

## 72 **Article 1** 73 **Subject matter and scope**

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

## 77 **Article 2** 78 **Definitions and interpretation**

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

## 91 **Article 3** 92 **Limits on the amount of exchange and sharing of FRR between synchronous**

- 93 1. A reserve receiving TSO of a LFC block involved in the exchange of aFRR and mFRR between  
94 synchronous areas, where synchronous area of Continental Europe is the reserve receiving synchronous

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

#### 113 **Article 4**

#### 114 **Publication and implementation of the FRR limits on exchange and sharing between** 115 **synchronous areas proposal**

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

#### 123 **Article 5** 124 **Language**

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