
All TSOs' proposal for amending the determination of LFC blocks for the Synchronous Area Continental Europe with regard to LFC Area Denmark West

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Contents

Whereas	3
Article 1 Subject matter and scope.....	3
Article 2 Definitions and interpretation	4
Article 3 Synchronous Area Continental Europe LFC blocks, LFC areas and monitoring area	4
Article 4 Publication and implementation of the LFC blocks determination proposal.....	5
Article 5 Language.....	5

All TSOs of CE, taking into account the following,

Whereas

- (1) To comply with Article 141 (2) of Commission Regulation (EU) 2017/1485 establishing a guideline on electricity transmission system operation (“SO GL”), the Transmission System Operators of Synchronous Area Continental Europe (the “TSOs”) jointly developed “All TSOs proposal for the determination of LFC blocks for the Synchronous Area Continental Europe” of 17/07/2018 (the “LFC blocks determination”).
- (2) The LFC blocks determination was approved by all national regulatory authorities of Continental Europe pursuant to Article 6 (3) g) SO GL. It determines not only LFC block configuration but also LFC areas and monitoring areas within each LFC block.
- (3) This document is a common proposal developed by the TSOs to amend the LFC blocks determination in respect of LFC area configuration within the German-Danish-Luxemburgish LFC block, cf. article 7 (4) SO GL.
- (4) The amendment implies the current DK W monitoring area being separated from the TenneT TSO GmbH LFC area and becoming an LFC area of its own, but will still be a part of the German-Danish-Luxemburgish LFC block.
- (5) According to Article 6 (6) of the SO GL, the expected impact of the amendment proposal on the objectives of the SO GL has to be described. It is presented below.
- (6) As stated in the LFC blocks determination, the current block determination generally contributes toward determining the common load-frequency control processes and control structures required by Article 4 (1)(a) c) of the SO GL. In particular, the LFC blocks determination proposal specifies the LFC blocks, LFC areas and Monitoring areas in Continental Europe, organized in order to improve the performance of the LFC control and the efficiency of the reserves dimensioning process, while it is consistent with the existing bidding zones. The structure contributes to system security and a common control process and structures, and therefore to the achievement of the objectives of Article 4 of the SO GL. The current proposal maintains these benefits and further introduces a minor adjustment, which increases transparency on the DE-DK1 border.
- (7) In conclusion, the current amendment proposal to the LFC blocks determination contributes to the general objectives of the SO GL to the benefit of all market participants and electricity end consumers.

SUBMIT THE FOLLOWING PROPOSAL TO AMEND THE LFC BLOCKS DETERMINATION TO ALL REGULATORY AUTHORITIES:

Article 1 **Subject matter and scope**

1. The determination of LFC blocks as specified in this proposal shall be considered as a common proposal of all TSOs from Continental Europe in accordance with Article 7 (4) SO GL to amend the LFC Blocks determination, established to comply with 141 (2) SO GL.

2. For the LFC blocks encompassing the LFC areas of third country TSOs, the fulfilment of the obligations set out in SO GL towards these LFC blocks shall be subject to the content of an agreement concluded by all Synchronous Area Continental Europe TSOs with the third country TSOs in accordance with Article 13 SO GL.

Article 2 Definitions and interpretation

1. For the purpose of this proposal, terms used in this document shall have the meaning of the definitions included in Article 3 SO GL.
2. In this LFC blocks proposal, unless the context requires otherwise:
 - a) the singular indicates the plural and vice versa;
 - b) the table of contents and headings are inserted for convenience only and do not affect the interpretation of this LFC blocks determination proposal; and
 - c) any reference to legislation, regulations, directive, order, instrument, code or any other enactment shall include any modification, extension or re-enactment of it then in force.

Article 3 Synchronous Area Continental Europe LFC blocks, LFC areas and monitoring area

The synchronous area Continental Europe shall consist of the LFC blocks, LFC areas and monitoring area set out in Table 1. LFC blocks encompassing the LFC areas of third country TSOs shall be subject to re-determination after the entry into force of the agreement mentioned in Article 1 (2) above.

Country	TSO (full company name)	TSO (short name)	Monitoring Area	LFC AREA	LFC Block
Austria	Austrian Power Grid AG	APG	APG	APG	APG
	Vorarlberger Übertragungsnetz GmbH	VUEN			
Belgium	Elia System Operator SA	Elia	ELIA	ELIA	ELIA
Bulgaria	Elektroenergien Sistemena Operator EAD	ESO	ESO	ESO	ESO
Czech Republic	ČEPS a.s.	ČEPS	CEPS	CEPS	CEPS
Germany	TransnetBW GmbH	TransnetBW	TNG	TNG	TNG+TTG+AMP+50HZT+DKW+CREOS
	TenneT TSO GmbH	TenneT GER	TTG	TTG	TNG+TTG+AMP+50HZT+DKW+CREOS
	Amprion GmbH	Amprion	AMP	AMP+CREOS	TNG+TTG+AMP+50HZT+DKW+CREOS
	50Hertz Transmission GmbH	50Hertz	50HZT	50HZT	TNG+TTG+AMP+50HZT+DKW+CREOS
Denmark West	Energinet	Energinet	DKW	DKW	TNG+TTG+AMP+50HZT+DKW+CREOS
Spain	Red Eléctrica de España: S.A.U.	REE	REE	REE	REE
France	Réseau de Transport d'Electricité	RTE	RTE	RTE	RTE
Greece	Independent Power Transmission Operator S.A.	IPTO	IPTO	IPTO	IPTO
Croatia	HOPS d.o.o.	HOPS	HOPS	HOPS	SHB
Hungary	MAVIR Magyar Villamosenergiaipari Átviteli Rendszerirányító	MAVIR ZRt.	MAVIR	MAVIR	MAVIR

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Italy	Terna - Rete Elettrica Nazionale SpA	Terna	TERNA	TERNA	TERNA
Luxembourg	CREOS Luxembourg S.A.	CREOS	CREOS	AMP+CREOS	TNG+TTG+AMP+50HZT+DKW+CREOS
Netherlands	TenneT TSO B.V.	TenneT NL	TTB	TTB	TTB
Poland	PSE S.A.	PSE S.A.	PSE	PSE	PSE
Portugal	Rede Eléctrica Nacional, S.A.	REN	REN	REN	REN
Romania	C.N. Transelectrica S.A.	Transelectrica	TEL	TEL	TEL
Slovenia	ELES, d.o.o.	ELES	ELES	ELES	SHB
Slovak Republic	Slovenska elektrizacna prenosova sustava, a.s.	SEPS	SEPS	SEPS	SEPS

• SHB: Control Block Slovenia, Croatia and Bosnia/Herzegovina

Table 1: List of Monitoring Areas, LFC Areas and LFC Blocks.

Each monitoring area, LFC area and LFC block shall be physically demarcated by accounting points for interconnectors to other monitoring areas, LFC areas and LFC blocks respectively, and therefore each network element is part of only one monitoring area, LFC area and LFC block.

Interconnectors between two monitoring areas, LFC areas or LFC blocks shall be considered as two network elements (each network element shall be delimited from the substation to the accounting point of each of the monitoring area, LFC area or LFC block).

Article 4

Publication and implementation of the LFC blocks determination proposal

1. The TSOs shall publish the LFC blocks determination proposal without undue delay after all NRAs have approved the proposal or a decision has been taken by the Agency for the Cooperation of Energy Regulators in accordance with Article 8(1) of the SO GL and Article 5 (3) of the Regulation (EU) 2019/942.
2. The TSOs shall implement the LFC blocks determination proposal provided no later than two months after the regulatory authorities have approved the proposal in accordance with Article 6(3) SO GL or a decision has been taken by the Agency in accordance with Article 5 (4) of the Regulation (EU) 2019/942.

Article 5 Language

The reference language for this LFC blocks determination Proposal shall be English. For the avoidance of doubt, where TSOs need to translate this LFC blocks determination proposal into their national language(s), in the event of inconsistencies between the English version published by TSOs in accordance with Article 8 of the SO GL Regulation and any version in another language, the relevant TSOs shall, in accordance with national legislation, provide the relevant national regulatory authorities with an updated translation of the LFC blocks determination proposal.