
**All TSOs proposal for amending the
determination of LFC blocks for the Synchronous
Area Continental Europe with regard to the
additional Baltic LFC block**

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Whereas

- (1) To comply with Article 141(2) of Commission Regulation (EU) 2017/1485 establishing a guideline on electricity transmission system operation as amended by Commission Implementing Regulation (EU) 2021/280 of 22 February 2021 amending Regulations (EU) 2015/1222, (EU) 2016/1719, (EU) 2017/2195 and (EU) 2017/1485 in order to align them with Regulation (EU) 2019/943 (“SO GL”), the Transmission System Operators of Synchronous Area Continental Europe (the “CE TSOs”) jointly developed “All TSOs proposal for the determination of LFC blocks for the Synchronous Area Continental Europe” of 15/07/2018 (the “LFC blocks determination”).
- (2) The Load-Frequency Control blocks (the “LFC blocks”) determination was approved by all regulatory authorities of Continental Europe pursuant to Article 6(3)(g) of SO GL. It determines not only LFC block configuration but also LFC areas and monitoring areas within each LFC block.
- (3) The LFC-block determination generally contributes towards determining the common load-frequency control processes and control structures required by Article 4(1)(a)(c) of SO GL. In particular, the LFC blocks determination 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 SO GL.
- (4) With the synchronization of the Baltic TSOs forming one LFC block in the Continental Europe Synchronous Area (CE SA), the Baltic TSOs will become a part of the CE SA.
- (5) In conclusion, the new determination of the LFC blocks contributes to the general objectives of the SO GL to the benefit of all market participants and electricity end consumers.
- (6) Furthermore, it contributes to the general objectives of the Commission Regulation (EU) 2017/2195 establishing a guideline on electricity balancing (“EB GL”), as it will allow the Baltic TSOs to directly participate on the European platform for imbalance netting process (according to Article 22 of EB GL) and the European platform for the exchange of balancing energy from frequency restoration reserves with manual (according to Article 20 of EB GL) and with automatic activation (according to Article 21 of EB GL), which is to the benefit of all market participants and electricity end consumers, as it will reduce energy costs, increases competition between market participants and increases the security of supply.

Article 1
Subject matter and scope

1. The determination of LFC blocks as specified in this document shall be considered as a methodology developed in accordance with Article 7(4) of SO GL to amend the LFC Blocks determination, established to comply with Article 141(2) of 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 CE TSOs with the third country TSOs in accordance with Article 13 of 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 of SO GL.
2. In this LFC blocks determination, 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.

Determination of LFC blocks for the Synchronous Area Continental Europe

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 Sistemen 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
Estonia	Elering AS	Elering	ELR	ELR	ELR+AST+LG
France	Réseau de Transport d'Electricité	RTE	RTE	RTE	RTE
Greece	Independent Power Transmission Operator S.A.	IPTO	IPTO	IPTO	IPTO
Croatia	HOPS d.d.	HOPS	HOPS	HOPS	SHB
Hungary	MAVIR Magyar Villamosenergia-ipari Átviteli Rendszerirányító Zártkörűen Működő Részvénytársaság	MAVIR ZRT.	MAVIR	MAVIR	MAVIR
Italy	Terna - Rete Elettrica Nazionale SpA	Terna	TERNA	TERNA	TERNA
Latvia	AS "Augstsprieguma tīkls"	AST	AST	AST	ELR+AST+LG
Lithuania	LITGRID, AB	Litgrid	LG	LG	ELR+AST+LG
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 CE TSOs shall publish the LFC blocks determination without undue delay after all regulatory authorities of the synchronous area Continental Europe have approved it.
2. The CE TSOs shall implement the LFC blocks determination proposal no later than two months after the regulatory authorities of the synchronous area Continental Europe have approved it in accordance with Article 6(3) of SO GL.

Article 5

Language

The reference language for this LFC blocks determination shall be English. For the avoidance of doubt, where TSOs need to translate this LFC blocks determination into their national language(s), in the event of inconsistencies between the English version published by TSOs in accordance with Article 8 of SO GL 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..