



Explanatory Note on Elia's methodology to determine the required balancing capacity

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INTRODUCTION

This document determines the the methodology to determine for each of the balancing services, the balancing capacity that has to be reserved within the Elia LFC block, in line with Article 213(1) of the Code of conduct (Defined by CREG by decision B2409 of the 20st of October 2022).

Article 213(1) of the Code of conduct specifies that the transmission system operator shall submit, after a public consultation, a proposal for approval (hereafter referred to as "LFC Means") containing the methodology to determine for each of the balancing services, the balancing capacity that has to be reserved within the Elia LFC block.

This proposal has to be read together with the LFC block operational agreement (hereafter referred to as LFCBOA) as specified in Article 6(3)e of the Commission Regulation (EU) 2017/1485 of 2 August 2017 establishing a guideline on electricity transmission system operation (hereafter referred to as "SOGL").

The LFCBOA determines the methodology to determine the needs for reserve capacity other than FCR. It is developed by the Transmission System Operator of the LFC block in accordance with Article 119 of the SOGL. The LFCBOA is submitted by Elia Transmission Belgium (hereafter referred to as "ELIA") for approval in accordance with Articles 6(3)e and 119(2) of the SOGL.

The methodology in this proposal shall be based on an analysis of the optimal provision as specified in Article 32(1) of Commission Regulation (EU)2017/2195 of 23 November 2017 establishing a guideline on electricity balancing (hereafter referred to as "EBGL"). This article specifies that "all TSOs of the LFC block shall regularly and at least once a year review and define the reserve capacity requirements for the LFC block or scheduling areas of the LFC block pursuant to dimensioning rules as referred in Articles 127, 157 and 160 of Regulation (EU) 2017/1485. Each TSO shall perform an analysis on optimal provision of reserve capacity aiming at minimisation of costs associated with the provision of reserve capacity. This analysis shall take into account the following options for the provision of reserve capacity:

- (a) procurement of balancing capacity within control area and exchange of balancing capacity with neighbouring TSOs, when applicable;
- (b) sharing of reserves, when applicable;

(c) the volume of non-contracted balancing energy bids which are expected to be available both within their control area and within the European platforms taking into account the available cross-zonal capacity."

The balancing capacity for FCR to be reserved by Elia is determined by all TSOs of the synchronous zone in application of the provisions of Article 153 of the European guidelines SOGL for which the methodology specified in the Synchronous Area Operational Agreement (hereafter referred to as SAOA)¹. The balancing capacity for FCR to be reserved by Elia is notified to the CREG as soon as communicated by ENTSO-E.

¹ When drafting the SAOA for RG CE, the TSOs considered that it was advantageous to extend the minimum content of the SAOA required by the SOGL with additional content based on the previous operational handbook of ENTSO-E, the Network Code on Electricity Emergency and Restoration and



Pursuant Article 213(2) of the Code of conduct, Elia will immediately notify to the CREG the volumes of aFRR and mFRR balancing capacity following the application of the dimensioning rules and allocation methodology specified respectively in the LFCBOA and the LFC Means. The positive mFRR balancing capacity is, in line with the FRR and mFRR needs, calculated every day for each period of 4 hours and the results for the next day are published on the website of Elia, before 7 AM.

In contrast to mFRR, the aFRR balancing capacity is until October 1, 2024 still based on a proposal for a fixed 'static' volume following the application of the dimensioning rules and allocation methodology specified respectively in the LFCBOA and the LFC Means, approved by CREG. As from October 1, 2024, a new dynamic methodology will enter into force as specified in the latest version of the LFCBOA approved on July 19, 2023. The positive and negative aFRR balancing capacity is, in line with the aFRR needs, calculated every day for each period of 24 hours and the results for the next day are published on the website of Elia, before 7 AM.

1. Introduction

Pursuant to Article 213(1), this document is a proposal developed by Elia regarding the methodology for determining the volumes of balancing capacity for aFRR and mFRR for the Elia LFC block. The calculation of the volumes of balancing capacity takes into account the volume of reserve sharing and non-contracted balancing energy bids.

This document describes how the required aFRR/ mFRR needs, determined for each period of 24 hours (aFRR) or 4 hours (mFRR) of the next day, are covered with a volume of aFRR / mFRR balancing capacity to be procured by Elia for each period of 4 hours of the next day.

2. General provisions

By determining the balancing capacity to be reserved, the LFC Means contributes to the general objectives as defined in Article 3 of the EBGL.

For the purposes of this LFC Means, the terms used have the meaning of the definitions included in Article 3 of the SOGL and in Article 2 of the EBGL. All references to other legislation is explicitly defined. All articles without explicit reference to other legislation concern articles in this LFC Means.

3. Methodologies

3.1. Dimensioning of reserve capacity

Each day, Elia determines the value for positive and negative reserve capacity for FRR needs for the next day following the dynamic dimensioning methodology specified in the LFCBOA. This reserve capacity is determined for 6 periods of 4 hours. Elia thereafter determines the value for positive and negative reserve capacity for aFRR and mFRR following the methodologies specified in Article 8 and Article 9 of the LFCBOA:

EBGL. The extended SAOA, as described above, shall be referred to as the Synchronous Area Framework Agreement (SAFA). https://transparency.entsoe.eu/system-operations-domain/operational-agreements-of-synchronous-areas/show



- Elia determines in this document the positive and negative aFRR needs based on the dimensioning methodology specified in the LFCBOA. As explained in the whereas:
 - Until October 1, 2024, Elia determines the positive and negative aFRR needs based on the dimensioning methodology as specified in the version of the LFCBOA approved on July 14, 2022.
 - As from October 1, 2024, Elia determines for each period of 24 hours one value for positive and one value for negative aFRR needs for the next day based on the dynamic dimensioning methodology as specified in the last approved version of the LFCBOA.
- Elia determines the methodology to calculate for each of the 6 periods of 4 hours of the next day a value for positive and negative mFRR needs based on the dynamic dimensioning methodology specified in the LFCBOA.

Next sections will describe the methodology to determine the volume of aFRR and mFRR balancing capacity needed for each period of 4 hours of the day, also referred to as CCTU, to ensure that the aFRR and mFRR needs will be covered, taking into account reserve sharing and non-contracted balancing energy bids.

3.2. Sharing of reserve capacity

In line with Article 32(1) of the EBGL and Article 10 of the LFCBOA, Elia takes into account the sharing of reserve capacity with neighbouring TSOs in the dimensioning of its balancing capacity. This only concerns sharing agreements on mFRR as Elia does not have sharing agreements on aFRR. Elia disposes of agreements with RTE, TENNET, NGESO and the German TSOs that facilitate the sharing of mFRR. Each of these agreements facilitates a positive and negative shared capacity of 350 MW. It is however to be stressed that these contracts are voluntary, and can be subject to modifications on request of the counter-party.

Pursuant to Article 157(2)g of the SOGL, and Article 10(3) of the LFCBOA, Elia takes into account the restrictions defined in the mFRR sharing agreements due to possible violations of operational security and the mFRR availability requirements as specified in Article 157(2)b:

- these reserves may only be activated under exceptional conditions described in the
 operational agreements governing the sharing of the mFRR reserve to maintain the balance
 in the LFC block for a limited number of hours and thus cover part of the mFRR needs. They
 are generally activated after using all the other available balancing services (the noncontracted balancing energy bids and the contracted balancing capacity);
- these reserves are never guaranteed as the availability of cross-border capacity is not ensured and are therefore subject to the operational availability of interconnection capacity at borders, as well as internal network operating constraints such as congestions;
- These reserves are subject to service availability. The service availability observed and reported in 2021 was 91.9% (RTE), 98.4% (Tennet) and 98.4% (NGSO) and 98.4% (German TSOs).

The maximum shared volume for positive and negative reserve on mFRR that can be taken into account is calculated pursuant Article 10(1) of the LFC BOA, in accordance with Article 157(2) of the



SOGL. Following this methodology, the maximum capacity which can be taken into account in the calculation of the mFRR balancing capacity to be procured is:

- for positive reserve capacity: 312 MW, i.e. 30% of the positive dimensioning incident;
- for negative reserve capacity: 0 MW (if Nemo Link is predicted to be scheduled in import or foreseen to be in maintenance) or the value specified in the LFC BOA limited to the difference, if positive, between the maximum capacity on Nemo Link and the reserve capacity on FRR required to cover the negative LFC block imbalances during 99.0% of the time (if Nemo Link is predicted to be scheduled in export or when the prediction is considered to be indecisive).

However, taking into account the above-mentioned constraints, and following the reliability rate (as specified in Article 8 of the LFCBOA) decreased from 99.9% (in 2018) to 99.0% (in 2019), Elia determines as an act of prudence and in order to limit the planned activations, as the activation of the sharing reserves must remain an exceptional measure:

- the positive sharing capacity included in the dimensioning to 250 MW;
- the negative sharing capacity included in the dimensioning to 350 MW.

Note that the positive sharing capacity included in the dimensioning was increased from 50 MW to 250 MW in the previous proposal of the LFC Means (2021) due to the observation of an increasing available transmission capacity after the latest intra-day gate closure. This is an important indicator towards the availability of the capacity that can be activated through the sharing agreements. An analysis of the 99.0%-percentiles shows that over a period between July 2019 to June 2020, 250 MW of remaining transmission capacity after the latest intra-day gate closure was observed to be available during at least 99.0% of the time.

A recent analysis presented in the Working Group balancing of June 29, 2023 has shown that the availability transmission capacity for import after the latest intra-day gate closure has shown that:

- tight market conditions are typically occurring as a regional event and that the probability of losing availability of the sharing capacity on multiple borders at once is high;
- while the situation seems to have recovered in the first part of 2023, 'the ATC after ID' on the four borders was relatively low in 2022 (below targeted 99% levels)
- an assessment on the effect of losing one or two borders shows that the 250 MW sharing contribution mainly relies on GB and FR;
- availability of ATC after ID are substantially reduced during tight market conditions.

Despite the observed reduction of ATC availability in 2022, Elia currently justifies maintaining the 250 MW contribution under normal conditions following the observed recovery in 2023, as well as the prevalence of the UK contribution being unaffected by the uncertainty of new CORE IDCC methodology foreseen in 2024. With similar trends on the downward side, the contribution is also maintained at 350 MW (although this does not impact balancing capacity procurements due to absence of downward mFRR procurement).

As these reserves are made available by the foreign TSOs on a voluntary basis and subject to local activation requirements, it is expected that these neighboring reserves would not be available to Elia



in case of tight market conditions in Western Europe. As the contribution of these reserve sharing agreement in the dimensioning is determined via a statistical method, taking into account the availability of transmission capacity after the intra-day timeframe, the unavailability of the reserve sharing volumes with one or more countries would compromise the firmness of the 250 MW taken into account in the dimensioning. To mitigate this risk and ensure that our reserves needs remain covered in exceptional circumstances, Elia will temporary reduce the contribution of reserve sharing in the dimensioning to 0 MW (and hereby increase the balancing capacity requirement with 250 MW).

Note that the 'all or nothing' mechanism is justified by the fact that:

- during tight market conditions, with Critical Grid Situations in neighbor countries, Elia cannot engage in 'ad hoc' real time bilateral discussions and analysis with other TSOs which explains the 'all or nothing' nature of the proposed mechanism;
- the analysis presented in the Working Group balancing of June 29, 2023 in which it was
 concluded that it is currently not possible to pre-define the potential impact of losing one or
 more border on the contribution of sharing. This follows the above-mentioned observations,
 and the uncertainty on the outcome of the escalation process on the CORE IDCC
 methodology foreseen in 2024.

Elia proposes to maintain the current 'all or nothing' approach and consider potential modifications after return of experience after implementation of the IDCC methodology. Elia foresees to be able to determine the impact on the contribution of sharing in a more dynamic way when capable of forecasting the balancing energy and network capacity for cross-border energy for the next day as foreseen in its dynamic procurement roadmap presented in the study on procurement strategies for a dynamic allocation of FRR means².

The reduction of the contribution of reserve sharing in the dimensioning to 0 MW will be triggered via the CGS (Critical Grid Situation)-process. This process is based on regional adequacy assessment processes conducted by the regional coordination centers. After identifying an adequacy problem in the region, it further assesses the problem while taking into account remedial actions with the concerned TSOs. As from three days before real-time (D-3) until real-time, regional adequacy problems with insufficient remedial actions will result in the communication of a CGS to the TSOs. The communication specifies which country is impacted by the potential shortage.

In case a CGS is received for a country with which Elia has a sharing agreement, and this before 7 AM D-1 (i.e. when the reserve capacity needs and balancing capacity to be procured are communicated to the market), Elia will inform the market as from D-3 or as soon as reasonable feasible of the reduction of the positive sharing capacity to 0 MW. Communications will include a message via its via its inside information platform, Elia Group IIP. Note that Elia can update the decision on the reduction of the positive sharing capacity to 0 MW until 7 AM D-1, based on updates received from the RCC. Elia will limit the reduction of the positive sharing capacity to 0 MW to the CCTUs of day D related to the periods identified as being at risk. Elia will provide the communications received from the regional coordination center to the CREG.

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² https://www.elia.be/en/public-consultation/20220914 study-on-procurement-strategies-for-adynamic-calculation-of-frr-means



3.3. Non-contracted balancing energy bids

Elia determined the volume of non-contracted balancing energy bids that can be taken into account to cover the required reserve capacity for FRR based on an analysis of the historical availability of these non-contracted balancing energy bids for a period of 2 years (July 1, 2018 to June 30, 2020). The available energy bids are only based on the local market as ELIA has currently no access to the European platforms for the exchange of non-contracted balancing energy bids for aFRR or mFRR (the platforms are still under developments).

Elia determined the availability of all non-contracted balancing energy bids for aFRR (Figure 2). Over the period studied, the availability of such bids was equal to 0 MW for 61% (for incremental aFRR bids) or 20% (for decremental aFRR bids) of the observed quarter-hours. These results show that no volumes can be considered as sufficiently firm to be accounted in the dimensioning of the aFRR means.

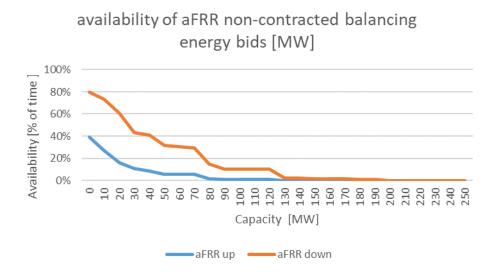


Figure 1: available incremental (aFRR+) and decremental (aFRR-) non-contracted balancing energy bids

Elia determined the availability of all non-contracted balancing energy bids for mFRR. However, ELIA will only take into account non-contracted balancing energy bids for mFRR in the dimensioning if the volume of non-contracted balancing energy bids for mFRR can, together with the volume of reserve sharing for mFRR, entirely cover the entire mFRR needs.

Elia did not conduct further updates of these 'static' calculations at this point as it does not expect new trends or evolutions impacting the procurement of balancing capacity. As explained in its study on dynamic procurement strategy, Elia does not expect any volumes to be firmly available as long as applying 'static' calculations. For this reason, Elia proposed to implement dynamic procurement strategies as from 2027 based on a prediction of the available local and cross-border balancing energy for the next day.

3.3.1. Positive non contracted balancing energy bids

The total available upward non-contracted reserve capacity is calculated by means of a summation of available upward capacity of non-contracted balancing energy bids in each quarter-hour. A first



category taken into account are 'coordinable' power plants³: this category excludes units with a 'limited coordinability' (e.g. nuclear generation units, combined-heat and power). An additional filter is applied to remove units providing contracted mFRR balancing capacity to take into account that these units might leave the balancing market when losing their remuneration for contracting mFRR as explained in Elia's study on daily procurement¹.

Pumped-hydro storage is taken into account but only between 4 AM and 8 AM due to operational and technical constraints which can limit their availability in real-time. These units with energy limitations are not taken into account as there is currently no view on the availability of the energy in the energy reservoir. Increasing generation or reducing off-take may furthermore not be acceptable for BRPs as such an activation may prevent the BRP from following its program the rest of the day. Elia will investigate a methodology to determine and publish the available capacity. However, available upward capacity following bids conducted on 'Bidladder' are taken into account in the analysis⁴.

This results in a time series depicted by means of a duration curve in Figure 3. In order to take into account possible correlations between the availability of non-contracted balancing energy bids and mFRR sharing service, the available ATC after intra-day for each quarter-hour is added. This concerns the Dutch, French and British borders where the maximum capacity shared is:

- 350 MW for each border individually (standard contractual values of each mFRR sharing agreement) as explained in Section 3.2;
- 250 MW for the total shared capacity as explained in Section 3.2.

Note that next analyses should allow to take into account the border with Germany. Indeed, currently, no data is available to draw any conclusions on availability.

³ Coordinable' refers to characteristic of a Delivery Point DP_{SU} which is technically capable of modifying its power injection on the Elia Grid upon request by ELIA, within 15 minutes.

⁴ 'Bidladder' refers to non-contracted balancing energy bids on delivery points without bidding obligation specified in Article 242 of the Code of conduct;



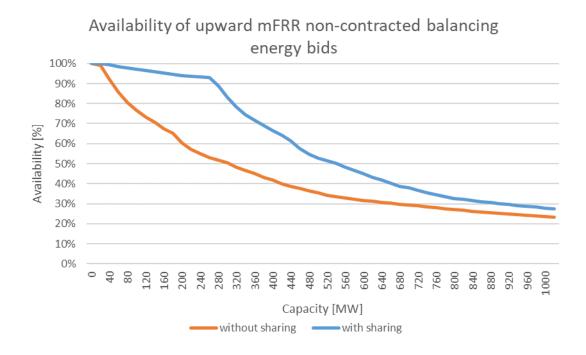


Figure 2: available positive mFRR non-contracted balancing energy bids with and without mFRR sharing

It can be seen in Figure 3 that no substantial volume can be considered sufficiently firm and can be taken into account as available capacity. As this is far below the mFRR needs, and a partial procurement is not feasible, no volume of non-contracted energy bids is taken into account as available capacity. Note that this figure 3 is based on figures data observations from July 1, 2018 to June 30, 2020, which also takes into account periods before the commissioning of Nemo Link. This explains why the 250 MW of positive sharing capacity put forward in Section 3.2 is not yet available at a reliability level of 99%.

3.3.2. Negative non contracted energy bids

The total available downward non-contracted reserve capacity is calculated by means of a summation of available decremental non-contracted energy balancing bids on 'coordinable' power plants per quarter-hour. This includes the bids from bids from pump hydro storage units. Such bids are taken into account unless they relate to the period 04h00– 08h00. It is found that during these hours, BRPs face energy reservoirs which are full, or are filling the energy reservoirs resulting in energy limitations. It is assumed that besides this period, it is acceptable for BRPs to increase off-take or decrease injections. Similar to incremental capacity, units with 'limited coordinability' (e.g. nuclear generation units, combined-heat and power) are not taken into account except from the expected downward bids from wind power in 2021 are taken into account based on current production nominations, taking into account the incremental wind power capacity installed between 2018-2020 and 2021 (based on the figures published in the Elia's adequacy and flexibility study 2019).

This results in a final time series depicted by means of a duration curve in Figure 4. Again, the available mFRR sharing is accounted by means of adding the hourly available ATC after intra-day (similar as calculated as in Section 3.3.1), taking into account:



- 350 MW for each border individually (standard contractual values of each mFRR sharing agreement) as explained in Section 3.2;
- 350 MW for the total shared capacity as explained in Section 3.2.

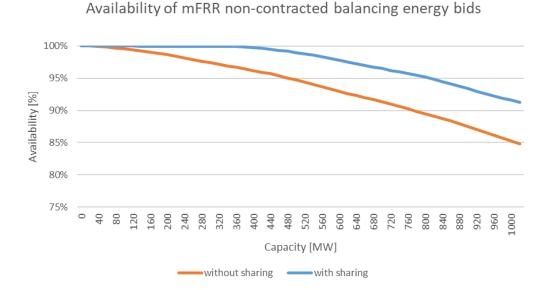


Figure 3: available negative non-contracted balancing energy bids with and without mFRR sharing

It can be seen that substantial decremental volumes are expected to be available: 800 MW - 900 MW were available 94.8 % - 93.0% of the time, which availability is expected to further increase, particularly following the implementation of the reserve sharing agreement with AMPRION.

3.4. Balancing capacity

Elia does not dispose of reserve sharing for aFRR and the availability of non-contracted balancing energy bids for aFRR has not been sufficient to cover part of the required reserve capacity. Therefore, the volume of positive and negative aFRR balancing capacity is determined equal to the required positive and negative aFRR reserve capacity needs calculated according to the method specified in the LFC BOA. The daily procurement process and product requirements are specified in the T&C BSP aFRR. This contracted capacity will be available in up- and downward direction.

Elia will cover the required remaining positive reserve capacity for mFRR (after taking into account reserve sharing and non-contracted balancing energy bids if applicable) by contracting a volume of "mFRR balancing capacity / tertiary reserve" equal to the value of remaining required reserve capacity. The procurement process and product requirements are specified in T&C BSP mFRR. The mFRR balancing capacity can be provided with two products:

- "mFRR Standard" the mFRR Capacity Product characterized by an unlimited activation time and no neutralization time;
- "mFRR Flex" the mFRR Capacity Product characterized by a limited activation time and a neutralization time between two successive activations.



Elia has currently no mechanisms for the exchange of balancing capacity for aFRR or mFRR with neighboring TSOs. ELIA considers all contracted aFRR and mFRR balancing capacity products to have a 100% guaranteed availability.

3.4.1. Positive FRR balancing capacity

As no substantial volumes of non-contracted balancing energy bids are available for positive mFRR, Elia will only cover the mFRR needs with mFRR reserve sharing and mFRR balancing capacity. Elia will cover the required positive reserve capacity for mFRR with a minimum capacity of the "mFRR Standard" product determined by the minimum of a threshold of 640 MW (as from July 1, 2020) and the required mFRR balancing capacity. This means that if the total required mFRR balancing capacity would be lower as 640 MW, this minimum level is adapted accordingly in order to never contract more mFRR balancing capacity than the required mFRR balancing capacity. This minimum level is determined by means of an interpolation in two steps from the minimum level in 2019, i.e. 314 MW and the total contracted mFRR balancing capacity in that same year, i.e. 844 MW. The remaining required positive reserve capacity, if positive, is procured by means of "mFRR Standard" or "mFRR Flex" products in proportions that will depend on the offered prices of the products.

Table 1 provides an example of the aFRR and positive mFRR balancing capacity to be contracted where the FRR needs are determined based on the dimensioning incident, i.e. 1039 MW (installed maximum capacity the largest nuclear generation unit). Of course, these values are subject to daily changes, with a resolution of 4 hours, depending on the results of dynamic dimensioning.

Table 1: illustration of positive FRR needs and positive FRR means where FRR needs are determined by the dimensioning incident

FRR needs = 1039 MW (dimensioning incident)	FRR means = 1039 MW	
aFRR needs = 145 MW	aFRR balancing capacity = 145 MW	
mFRR needs = 894 MW	FRR reserve sharing = 250 MW	
The first field of the field of the first field of the field of the first field of the fi	mFRR balancing capacity = 644 MW	

^{*}Note that the aFRR needs have been fixed to 117 MW as from July 21, 2022 and will be calculated on a daily basis following a new dynamic aFRR dimensioning method as from October 1, 2023.

3.4.2. Negative FRR balancing capacity

Elia will not procure any negative balancing capacity other than aFRR. The required negative reserve capacity for mFRR is expected to be covered with reserve sharing and non-contracted balancing energy bids with an acceptable probability. Given the recent improvements in the balancing market and the implementation of a new reserve sharing agreement for the German border begin 2021, it is expected that the capacity on mFRR reserve sharing and non-contracted balancing energy will be sufficient, i.e. available with an acceptable probability. As it cannot currently be demonstrated that it is necessary to contract balancing capacity from mFRR downwards, Elia proposes to set the balancing capacity contracted in mFRR downwards at 0 MW.

Table 2 provides illustrative figures of the negative aFRR and mFRR balancing capacity to be contracted where the FRR needs are determined based on the dimensioning incident (DET N-1 method specified in the LFCBOA), when Nemo Link is predicted to be scheduled in export, or if the prediction of the schedule is uncertain, or the historic and expected LFC block imbalances (HIST99 and PROB99 as specified in the LFCBOA) when Nemo Link is predicted to be scheduled in import, or if the interconnector is scheduled in maintenance. Of course, these values are subject to daily changes, with a resolution of 4 hours, depending on the results of dynamic dimensioning.



Note that between February 1, 2019 and January 31, 2020, the result of DET N-1 method was determined by maximum export power of Nemo Link, which never exceeded 1046 MW, at least if Nemo Link was expected to be scheduled in export (or if the prediction is uncertain). In all other cases, the result of the DET N-1 method was equal to 0 MW. Over the same period, when Nemo Link was expected to be in import (or maintenance), the result of the PROB99 and HIST99 never exceeded 535 MW.

Table 2: illustration of negative FRR needs and negative FRR means in situations where Nemo Link is expected to be scheduled in import, export, maintenance or if the prediction is uncertain

[MW]	Nemo Link in export (or undefined)	Nemo Link in import (or maintenance)
FRR needs	1046	535
aFRR needs	145	145
mFRR needs	927	381
aFRR balancing capacity	117	117
Available mFRR reserve sharing and mFRR non contracted balancing energy bids	≥ 901	≥ 381

^{*}Illustration relevant for period February 1, 2019 – January 31, 2020.

Elia will carry out a yearly ex-post analysis in the first quarter of the year based on historical data from the precedent year on and assess whether FRR needs have been sufficiently covered by the resources available. For the purposes of this analysis, Elia will compare the results of the FRR needs based on the methodology in the LFCBOA with the available resources of aFRR and mFRR (non-contracted balancing energy offers and sharing of FRR reserves), based on the methodology to determine the mFRR sharing capacity (Section 3.2) and non-contracted balancing energy bids (Section 3.3). The results of the latest analyses were presented in the Working Group Balancing of May 5, 2022⁵.

4. Final Provisions

The new version of the LFC Means will enter into force after being approved by the national regulatory authority, i.e. CREG.

- The modifications related to the new aFRR dimensioning methodology approved in the LFCBOA will not enter into force before October 1, 2024 (i.e. calculation on September 30 for delivery on October 1, 2024).
- The modifications related to the reduction of the sharing contribution during critical grid situations in neighboring countries will not enter into force before November 1, 2023 (i.e. calculation on October 30 for delivery on November 1, 2023).

⁵ https://www.elia.be/en/users-group/wg-balancing/20200619-meeting



The LFC means is published in English, Dutch and French. In case of discussion on interpretation of the methodologies presented in the LFCBOA, the French and Dutch versions prevail over the English version.