

mFRR-Platform Accession roadmap

Version	Description	Date
V11	11th Update of Accession Roadmap	6/07/2024

According to Implementation Framework for a European platform for the exchange of balancing energy from frequency restoration reserves with manual activation (mFRRIF), Article 5, Paragraph 4 (b) member TSOs shall develop accession roadmap within three months after approval of mFRRIF (date of approval 24/1/2020)

The accession of member TSOs to mFRR-Platform (MARI) is planned in accordance with the following accession roadmap. MARI member TSOs and ENTSO-E share this accession roadmap for informative purposes only and does not, in any case, represent a firm, binding or definitive position of MARI on the content. The content is subject to change as the implementation progresses and new information becomes available. In particular, feasibility of the present accession roadmap may depend on final detailed accession planning and possible operational and/or technical constraints that would result in the maximum number of parallel accessions.

This accession roadmap will be updated at least twice a year to give stakeholders current information on the development.

Explanatory notes

Member TSOs below include an explanation for all aspects in the accession roadmap according to the mFRRIF:

5.4.(b)(i) the adaptation and implementation of terms and conditions for BSPs by each member TSO

- Member TSOs deemed relevant to split the development of T&C and their entry into force to provide clarity to stakeholders. Entry into force of T&C in some TSOs does not have to be adherent to the connection and Go-live of such TSOs in mFRR-Platform. In practice, the updated T&C may be applied in advance.

5.4.(b)(ii) the development of the functions of the mFRR-Platform

- Member TSOs provide further detail by splitting this point into the Activation Optimization Function (AOF) development and the TSO-TSO Settlement Function development.

5.4.(b)(iii) the interoperability tests between each TSO and the mFRR-Platform

- The interoperability tests between each TSO and the mFRR-Platform (end-to-end integration tests) start as soon as part of the platform and TSOs are ready and finish by the Go-Live.

5.4.(b)(iv) the operational tests

- The operational tests provide a period for the TSOs to get acquainted with the new operational paradigm.

5.4.(b)(v) the connection of each TSO to the mFRR-Platform

- The connection of a TSO to the mFRR-Platform indicates the effective TSO business Go-Live after successful performance of the interoperability and operational test.

5.4.(b)(vi) making the mFRR-Platform operational

- Member TSOs see as one part of this aspect testing of the mFRR-Platform functions and another part of the act of making the mFRR-Platform Go-live itself. That is why it was split in the accession roadmap to give stakeholders better overview. The legal deadline for the Go-Live is set to 24/7/2022.

5.4.(b)(vii) the connection of all TSOs that have been granted a derogation by their respective regulatory authorities in accordance with Article 62 of EB Regulation

- TSOs have the possibility to request a derogation to their respective authorities – in the roadmap TSOs that are considering such option or already did request are marked in the accession roadmap.

mFRR-Platform Accession Roadmap			Last updated on 6th July 2024 based on latest information available.																	
Country	Derogation deadline ¹	TSO	2023			2024								2025						
			10	11	12	1	2	3	4	5	6	7	8	9	10	11	12	Q1	Q2	Q3
Germany		50Hz/AMP/ TTG/TNG																		
Czech Republic		CEPS																		
Austria		APG																		
Portugal	24.07.2024	REN																		
Latvia	24.07.2024	AST ³																		
Lithuania	24.07.2024	LITGRID ³																		
Estonia	24.07.2024	ELERING ³																		
Slovakia	24.07.2024	SEPS ¹²																		
Belgium	24.07.2024	Elia ⁴																		
Spain	24.07.2024	RE ¹⁰																		
Bulgaria	30.06.2024	ESO ⁶																		
Netherlands	24.07.2024	TenneT BV ¹³																		
Poland	24.07.2024	PSE ⁹																		
Italy	24.07.2024	Terna ¹⁴																		
Hungary	24.07.2024	MAVIR ⁸																		
Slovenia	24.07.2024	ELES ¹⁶																		
France	24.07.2024	RTE ¹¹																		
Greece	24.07.2024	IPTO ²																		
Romania	24.07.2024	Transelectrica ¹⁷																		
Denmark	24.07.2024	Energinet ⁵																		
Finland	24.07.2024	Fingrid ⁵																		
Sweden	24.07.2024	SVK ⁵																		
Croatia	24.07.2024	HOPS ⁷																		
EEA																				
Norway	24.07.2024	Statnett ⁵																		
Non-EU Member State																				
Switzerland		Swissgrid ¹⁵																		

	5.4.(b)(i)	National terms and conditions development
	5.4.(b)(i)	National terms and conditions entry into force
	5.4.(b)(iii)	Interoperability tests between TSO and mFRR-Platform
	5.4.(b)(v)	TSO connection to mFRR-platform / Go-live
	5.4.(b)(vii)	EBGL Article 62 Derogation considered / requested / granted

1 The technical Go Live of the MARI platform was 15 September 2022, while the first TSOs connected 5 October.

2 IPTO was granted a derogation until 24.07.2024. However, IPTO expects to connect to the mFRR-platform within 2026. IPTO has recently informed the Greek NRA regarding the delay.

3 Derogation request submitted by Baltic TSOs is approved by the Baltic NRAs. According to the NRAs decision, the planned connection time will not be later than 24.07.2024

4 Elia targets to connect to MARI a quarter after connecting to Picasso

5 The Nordic TSOs' planned connection time is expected in 2026. The plan presented in this roadmap shall be regarded as a preliminary, non-binding estimate.

6 ESO - derogation was granted by local NRA until 30.06.2024. Planned connection to MARI was postpone due to technical challenges and difficulties on SCADA/MMS systems discovered during the preparations for simultaneous implementation of PICASSO and MARI project. Taking into account the complexity of the changes,

that are to be made and the previous experience, we consider that 6-8 months after joining the POICASSO

project will be needed for separate development, implementation and tests.

7 HOPS - planning connection after derogation deadline 24.07.2024.

8 MAVIR - derogation was granted by local NRA until 24.07.2024. MAVIR preliminary expects to connect to the platform by Q1 2026.

9 PSE preliminary expect to connect to the platform in December 2025.

10 RE - Due to the design and architecture of the IT systems, before connecting the Spanish electrical system to MARI, it is necessary to adapt the national aFRR market to the European standard aFRR product (SRS project, delayed until November 2024, due to operational technical issues). Once the IT system has been stabilized after the implementation of SRS (currently foreseen in 3 months), the connection of Red Eléctrica to MARI can be carried out. Meanwhile, Red Eléctrica is already connected to MARI testing environment and actively performing test since March 2024.

11 RTE was granted a derogation by the French NRA until 24/07/24. However, at least one additional year will be required for RTE to connect to the MARI platform in order to ensure the operational security of the French electrical system. RTE will make its best effort to share its ATC before 24/07/24.

12 SEPS - the go-live date was adjusted to be in line with the entry into force of local T&C.

13 TenneT NL aims for technical compliance with the Mari Platform by Q1 2025 and go-live by December 2025 and has requested a derogation until 24-07-2024.

14 TERNA – derogation was granted by local NRA until 24.07.2024. However, Terna is re-evaluating the planned connection time.

15 The technical readiness of Swissgrid has been acknowledged. The participation of Switzerland in the mFRR-Platform is regulated based on article 1.6 and 1.7 of the EB Regulation and currently the subject of litigation by Swissgrid at the Court of Justice of the European Union.

16 ELES - planning connection after derogation deadline 24.07.2024.

17 Transelectrica - derogation granted 24.07.2024. The local NRA has been informed that the accession has been postponed to 2026, when the conditions for participation to the European mFRR market will be fulfilled