



aFRR-Platform Accession roadmap

| Version | Description | Date |
|---------|------------------------|------------|
| V1 | Initial version | 24/4/2020 |
| V2 | 1 st update | 27/10/2020 |
| V3 | 2 nd update | 27/4/2021 |
| V4 | 3 rd update | 26/10/2021 |
| V5 | 4 th update | 26/4/2022 |
| V6 | 5 th update | 25/10/2022 |
| V7 | 6 th update | 28/4/2023 |
| V8 | 7 th update | 25/10/2023 |
| V9 | 8 th update | 27/02/2024 |

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

The accession of member TSOs to aFRR-Platform (PICASSO) is planned in accordance with the following accession roadmap. PICASSO member TSOs and ENTSO-E Share this accession roadmap for informative purposes only and it does not, in any case, represent a firm, binding or definitive position of PICASSO on the content. The content is subject to change as the implementation progresses and new information becomes available. In particular, the 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 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 aFRRIF:

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 aFRR-Platform. In practice, the updated T&C may be applied in advance.

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

- The interoperability tests between each TSO and the aFRR-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 aFRR-Platform

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

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

- Member TSOs see as one part of this aspect testing of the aFRR-Platform functions and another part of the act of making the aFRR-Platform Go-live itself. That is why it was split in the accession roadmap to give stakeholders a 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



aFRR-Platform Accession Roadmap

Last updated on 27/02/2024 based on latest information available.

| Country | Derogation deadline | TSO: | 2023 | 2024 | | | | | | | | | | | | 2025 | | | | | | |
|--------------------------|---------------------|------------------|-------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| EU: | | | 10 | 11 | 12 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | Q1 | Q2 | Q3 | Q4 | |
| Czech republic | | ČEPS | [Green bar] | | | | | | | | | | | | | | | | | | | |
| Austria | | APG | [Green bar] | | | | | | | | | | | | | | | | | | | |
| Germany | | 50Hz,AMP,TNG,TTG | [Green bar] | | | | | | | | | | | | | | | | | | | |
| Italy | 24.07.2023 | Terna | [Green bar] | | | | | | | | | | | | | | | | | | | |
| Bulgaria | 30.06.2024 | ESO | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Finland ¹ | 24.07.2024 | Fingrid | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| France ² | 24.07.2024 | RTE | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Romania | 24.07.2024 | Transelectrica | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Greece | 24.07.2024 | ADMIE | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Croatia | 24.07.2024 | HOPS | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Spain | 24.07.2024 | REE | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Belgium ³ | 24.07.2024 | Elia | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Netherlands | 24.07.2024 | Tennet BV | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Denmark ¹ | 24.07.2024 | Energinet | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Portugal | | REN | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Slovakia ⁶ | 24.07.2024 | SEPS | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Lithuania | | LITGRID | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Latvia | | AST | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Estonia | | ELERING | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Slovenia | 24.07.2024 | ELES | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Poland | 24.07.2024 | PSE | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Hungary ⁷ | 24.07.2024 | MAVIR | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| Sweden ⁴ | 24.07.2024 | SVK | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |
| EEA: | | | | | | | | | | | | | | | | | | | | | | |
| Norway ⁴ | 24.07.2024 | Statnett | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] | [Yellow] |
| Non-EU: | | | | | | | | | | | | | | | | | | | | | | |
| Switzerland ⁵ | | Swissgrid | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] | [Green] |

1) The plan presented in this roadmap shall be regarded as a preliminary, non-binding estimate. The planned connection time is expected in Q2 2024.
 2) RTE aims for implementation and go live by June 2024 provided risks related to balancing energy high prices observed on the PICASSO platforms are mitigated.
 3) A first version of the T&C has entered into force early May 2022 when local bidding has been adapted and a second one will enter into force when ELIA will connect to PICASSO.
 4) The plan presented in this roadmap shall be regarded as a preliminary, non-binding estimate. The planned connection time is expected in 2026.
 5) The technical readiness of Swissgrid has been acknowledged. The participation of Switzerland in the aFRR-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.
 6) SEPS observed the risk related to the regulatory and technical developments which may influence SEPS' accession date.
 7) A derogation has been granted by the NRA until 24.07.2024 for both MARI and PICASSO. MAVIR preliminary expects to connect to the platform by Q1 2026.