

ENTSO-E

Electricity Balancing Cost Report 2026

June 2026



CONNECTING EUROPE,
ELECTRIFYING THE FUTURE

Mission Statement

ENTSO-E – the European Network of Transmission System Operators for Electricity – brings together 40 electricity Transmission System Operators (TSOs) from 36 countries. ENTSO-E members are responsible for the secure and coordinated operation of Europe’s electricity system. Together, they operate a system of around 500,000 km of power lines – **the largest interconnected electrical grid in the world** – and serve about 520 million citizens.

Electricity is not merely a market commodity, it is an essential service, and TSOs are fully regulated public service entities whose work is essential to powering Europe. The grid is the backbone of the electricity system and has extended over the whole Continent, beyond the borders of the EU. TSOs working together guarantee a functioning infrastructure that makes the trade of electricity possible, contributes to decarbonisation goals, and ensures a reliable and efficient power supply for all members of society.

These shared public service responsibilities need close cooperation beyond national borders, which led to the creation of ENTSO-E. Today, the association serves two main complementary purposes:

1. Cooperation of European TSOs

The foundations of this cooperation date back to the 1950s with the creation of electrical synchronous areas and interconnections, which laid the groundwork for today’s interconnected European power system. TSOs established associations to work together on their own mandates and missions, that came together into what today is ENTSO-E. The European electricity system is one of the most stable and reliable grids in the world and is supported by the cooperation and coordination of TSOs both within the European Union and closely interconnected European countries. ENTSO-E strives to build consensus for decision-making amongst its member TSOs as this forms the strongest foundation for cooperation.

2. Fulfilling EU legal mandates

With the adoption of the Third Energy Package in 2009, ENTSO-E’s role was formally recognised by European institutions. ENTSO-E was granted legally mandated tasks to further develop the European interconnected grid and to facilitate the integration of European electricity markets. These mandates cover a large spectrum of tasks, including system operation, system development, market integration, information technologies, R&D and innovation.

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1 Introduction

All transmission system operators (TSOs) report to the regulatory authorities on the costs of establishing, amending and operating the European balancing energy platforms for the exchange of balancing energy from frequency restoration reserves and replacement reserves and for the imbalance netting process (“EB Cost Report”), in accordance with Article 23(1) of Commission Regulation (EU) 2017/2195 of 23 November 2017 establishing a guideline on electricity balancing (“EB Regulation”). These European balancing energy platforms are the RR-Platform, the mFRR-Platform, the aFRR-Platform and the IN-Platform, in accordance with Articles 19 – 22 of the EB Regulation.

This report will cover the detailed reporting of the respective year 2025 while keeping an overview of cumulative costs since the previous reports (i. e., 2018 – 2024).

Costs directly related to each European balancing energy platform shall be clearly and separately identified and auditable.

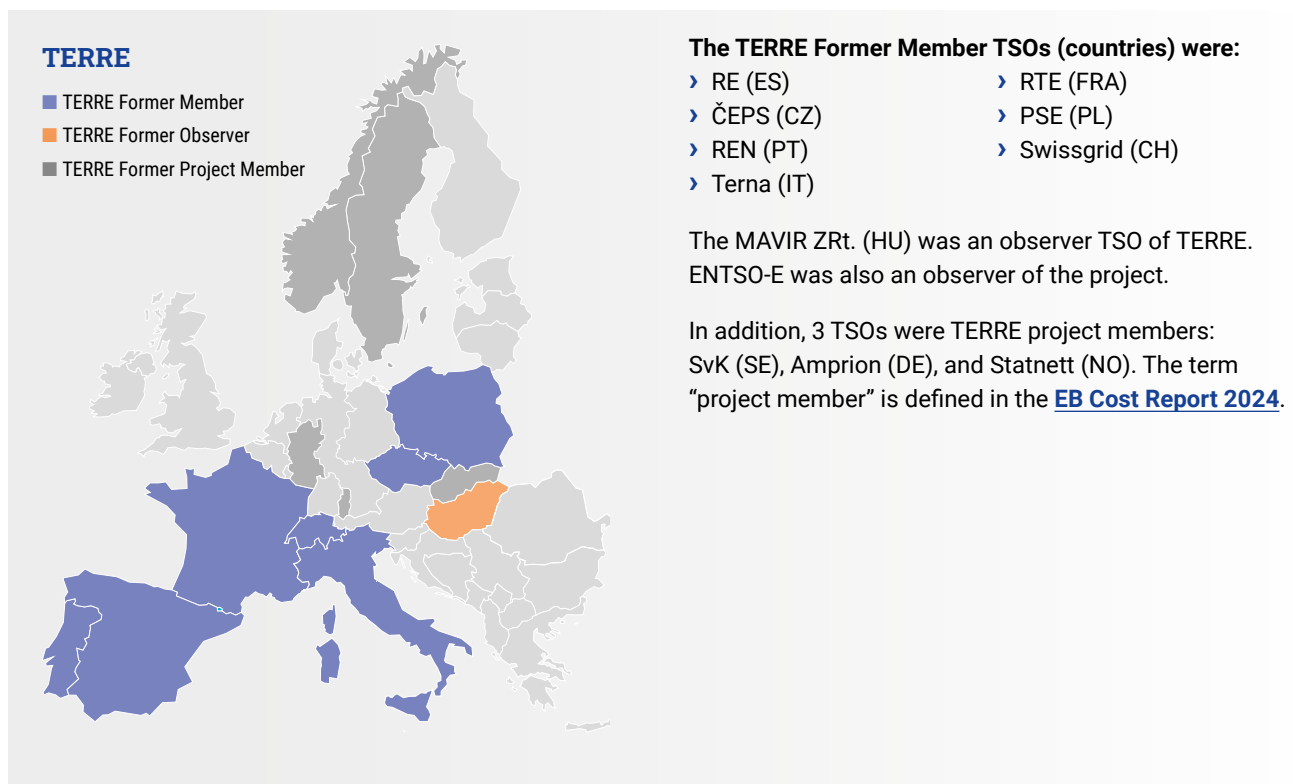
ENTSO-E has endorsed four implementation projects to establish the European balancing energy platforms pursuant to the EB Regulation.

The main targets of the projects are:

- › To design, implement and operate the European balancing energy platforms in compliance with the relevant regulation, including the Electricity Regulation, the EB, SO and CACM Regulations, and methodologies pursuant to those regulations, including the implementation frameworks for the European balancing energy platforms;
- › To enhance the efficiency of balancing in Europe and integrate balancing markets, promoting the possibilities for exchanging replacement reserves (RR), frequency restoration reserves with manual activation (mFRR) and frequency restoration reserves with automatic activation (aFRR) balancing energy, or for performing the imbalance netting process, while contributing to operational security.

1.1 Description of the RR-Platform: the TERRE project

The Trans European Replacement Reserves Exchange (TERRE) project was the European implementation project for exchanging Replacement Reserves in line with [EB Regulation](#) (Article 19). This fundamental regulation provides the technical and operational framework and defines the market rules to govern the functioning of balancing markets. It also sets out rules for the procurement of balancing capacity and for the allocation of cross-zonal transmission capacity for cross-border trades, for the activation of balancing energy and the financial settlement of balance responsible parties. Due to a particular context detailed in ENTSO-E Market Report 2025 and 2026, operations in TERRE were be stopped on the 30th of December 2025. The project was be closed at end Q1 2026.



Other relevant TERRE information

The TERRE Cooperation Agreement is the agreement between all TERRE member TSOs and entered into force on 18 October 2019.

In terms of costs, as specified in the implementation framework for the RR-Platform (“RRIF”), the costs associated with the establishing, amending and operation of the RR-Platform are broken down into:

Common costs resulting from RR-Platform development, costs required for external support to the project and the Project Management Office (PMO) costs. These costs are required for establishing, amending and operating the RR-platform.

The historical costs will include all the common costs incurred from January 2017, excluding the PMO costs.

The most important events involving TERRE during 2025 were:

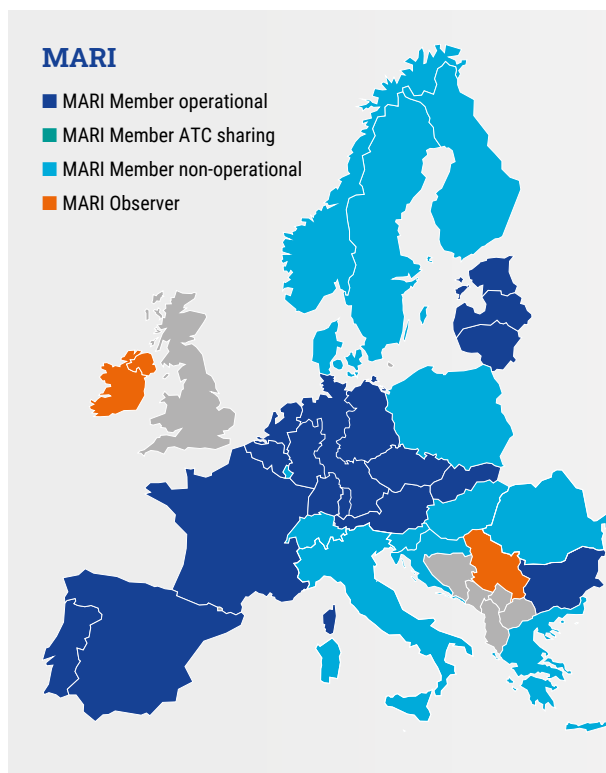
Because of the context of the upcoming end of the TERRE project not any major implementation was conducted in the platform. TSOs decided to reduce their investments for new functionalities in the platform. Nevertheless, operations in 2025 were stable, and TERRE TSOs worked on the following topics:

- › **Disconnections of RTE, Swissgrid, Red Electrica and REN**
- › **Planning for the end of the project:** end of operations, decommissioning of the platform, solution for re-simulation, saving project data, closing of the settlement, closing of all project's costs.

- › **KPIs reports:** since Q1 2024, all Performance Indicators reports are published on TERRE section of the [ENTSO-E website](#).
- › **CM IT implementation for TERRE:** the TERRE platform is connected to CM IT and TERRE TSOs ensured the stability of operation at each change of CM IT version or TSO connection.

1.2 Description of the mFRR-Platform: the MARI project

The Manually Activated Reserves Initiative (“MARI”) is the implementation project endorsed by all TSOs through ENTSO-E’s Market Committee on 7 September 2017 to establish the European platform for the exchange of balancing energy from frequency restoration reserves with manual activation, i.e. the “mFRR-Platform” pursuant to Article 20 of the EB Regulation. MARI went in operation in 2022 by starting a dry-run (connection of ČEPS only) on 18 July 2022 and achieving market go-live on 5 October 2022 (connection of ČEPS and German TSOs). Since then, several TSOs successfully accessed MARI.



All MARI member TSOs (countries) are:

- | | |
|--|-------------------------|
| › APG (AT) | › HOPS (HR) |
| › Elia (BE) | › MAVIR ZRt. (HU) |
| › ESO (BG) | › Terna (IT) |
| › Swissgrid (CH) | › Litgrid (LT) |
| › ČEPS (CZ) | › Creos Luxembourg (LU) |
| › 50Hertz, TenneT DE, Amprion, TransnetBW (DE) | › AST (LV) |
| › Energinet (DK) | › TenneT NL (NL) |
| › Elering (EE) | › Statnett (NO) |
| › RE (ES) | › PSE S.A. (PL) |
| › Fingrid (FI) | › REN (PT) |
| › RTE (FR) | › Tranelectrica (RO) |
| › IPTO (GR) | › SvK (SE) |
| | › ELES (SI) |
| | › SEPS (SK) |

In addition, the following TSOs (countries) are observers: Eirgrid (IE), SONI (NI) and EMS (SRB). ENTSO-E is also an observer.

In terms of costs, as specified in the implementation framework for the mFRR-Platform (“mFRRIF”):

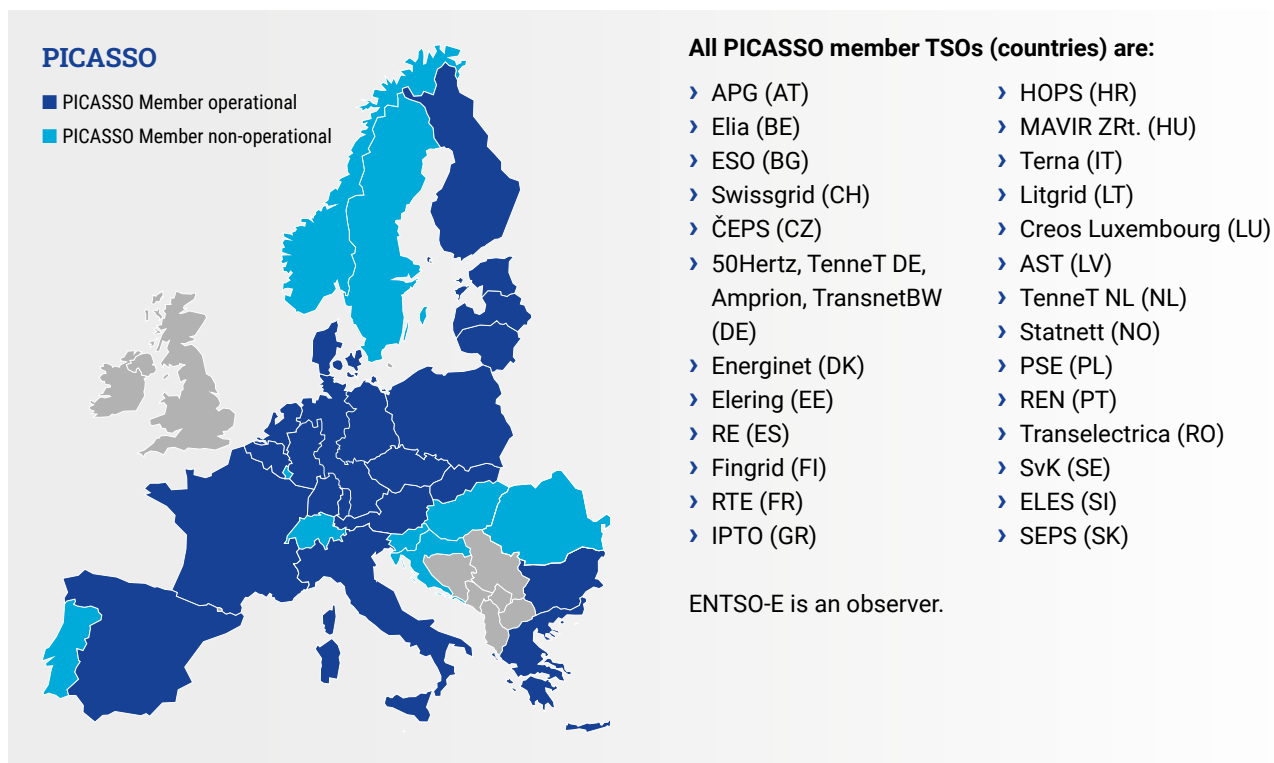
- › Each member TSO shall bear its own national costs and is solely responsible (i. e., no joint and several liability) for the due payment of all the costs related to the technical infrastructure necessary for the successful usage of the mFRR-Platform.
- › The cost sharing principle may apply to costs incurred since 1 January 2018 and shall apply to costs incurred after the approval of the mFRRIF. Any costs incurred before 1 January 2018 shall not be considered as historical costs.
- › The cost sharing key is for 1/8th attributed to membership, 5/8th to consumption and 2/8th to participation in the project.
- › In the event that several TSOs are operating in a Member State (as is the case in Germany), the Member State’s share of the costs shall be distributed among those TSOs proportionally to the consumption in the TSOs control areas.
- › Per January 2025, the Cost Sharing Key for MARI common costs for establishment and amendment as well as for operating costs was adjusted to reflect the latest available consumption data.

The most important events involving MARI during 2025 were:

- › Continuation of the technical upgrade of libraries, databases and software to improve stability and performance of the system core.
- › Work on three minor releases with improved and new functionalities: testing and deployment of version 7.3, design, development, testing and deployment of version 7.4 and design and development of version 7.5.
- › Development and deployment of a data extraction tool for MARI TSOs.
- › During 2025, two TSOs joined the mFRR platform. In May, the Belgian TSO Elia and in December the Dutch TSO TenneT.
- › Jointly with PICASSO, TERRE and IGCC, one minor CM IT release (version 3.2) was tested and deployed, and one major release (version 4) started to be designed and developed.
- › Jointly with PICASSO and IGCC, the balancing platform’s agreements revision took place and in total seven agreement amendments and one new agreement were drafted, approved and undersigned. Consequently, on 1 November 2025 the joint Balancing Platform’s governance structure entered into force.
- › Stakeholder workshop together with PICASSO, TERRE and IGCC has been organised in November 2025, informing stakeholders of project planning and progress, as well as giving detailed explanations of the business process and market results.

1.3 Description of the aFRR-Platform: the PICASSO project

The Platform for the International Coordination of Automated Frequency Restoration and Stable System Operation (“PICASSO”) is the implementation project endorsed by all TSOs through ENTSO-E’s Market Committee on 9 November 2017 to establish the European platform for the exchange of balancing energy from aFRR, i.e. the “aFRR-Platform” pursuant to Article 21 of the EB Regulation. PICASSO went in operation in 2022 with the first connection of ČEPS on 1 June 2022. German and Austrian TSOs connected on 22 June 2022 resulting in first energy exchanged. Since then, several TSOs successfully accessed PICASSO.



In terms of costs, as specified in the implementation framework for the aFRR-Platform (“aFRRIF”):

- › Each member TSO shall bear its own national costs and is solely responsible (i.e., no joint and several liability) for the due payment of all the costs related to the technical infrastructure necessary for the successful usage of the aFRR-Platform.
- › The cost sharing principle may apply to costs incurred since 1 January 2018 and shall apply to costs incurred – after the approval of the aFRRIF. Any costs incurred before 1 January 2018 shall not be considered as historical costs.
- › The cost sharing key is for 1/8th attributed to membership, 5/8th to consumption and 2/8th to participation in the project.
- › In the event that several TSOs are operating in a Member State (as is the case in Germany), the Member State’s share of the costs shall be distributed among those TSOs proportionally to the consumption in the TSOs control areas.
- › Per January 2025, the Cost Sharing Key for PICASSO common costs for establishment and amendment as well as for operating costs was adjusted to reflect the latest consumption data.

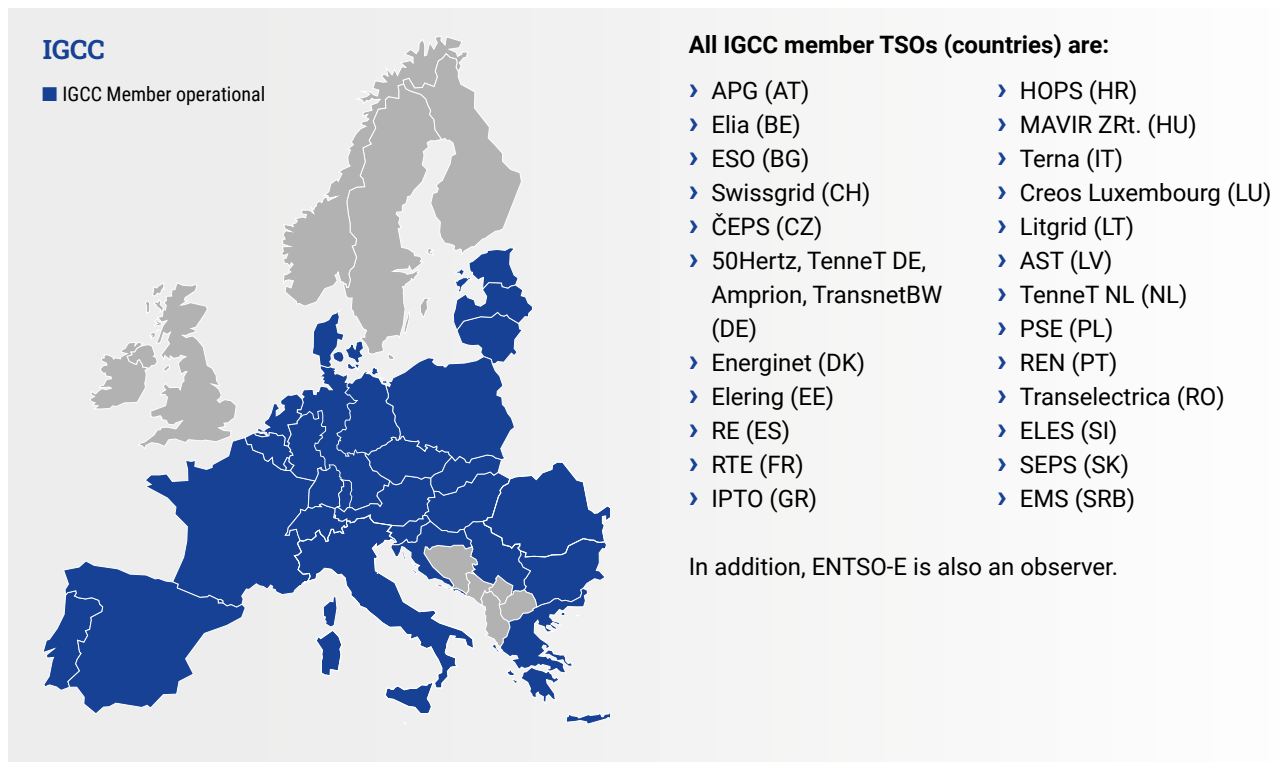
The most important events for PICASSO during 2025 were as follows:

- › In Q1 2025, the Bulgarian TSO ESO accessed the PICASSO platform on 10 February 2025, followed by the Lithuanian TSO Litgrid on 4 March 2025, the Greek TSO IPTO on 18 March 2025, and the Finnish TSO Fingrid on 26 March 2025.
- › In Q2 2025 the French TSO RTE accessed the PICASSO platform on 2 April 2025, followed by the Estonian TSO Elering on 9 April 2025, the Latvian TSO AST on 10 April 2025, and the Spanish TSO Red Eléctrica on 17 June 2025.
- › In Q3 2025 the Polish TSO PSE accessed the PICASSO platform on 11 July 2025.
- › Terna has successfully reconnected on 25 November 2025 after their temporary suspension since 15 March 2024 in relation to the resolution n° 60/2024/R/EEL of the Italian NRA.
- › The PICASSO project conducted enhancements in operational aspects, including updates to the Operational Handbook, to the Pricing & Settlement Implementation Document, and to the Technical Implementation Document
- › Development of the IT-implementation of the ACER decisions regarding CBMP calculation and Elastic demand successfully addressed high prices in PICASSO. Additional improvement has been implemented in the PICASSO algorithm to minimise the occurrence of counter-activation. Testing with new versions of the CM IT Solution were conducted throughout the year.
- › Stakeholder workshop together with MARI, TERRE and IGCC has been organised on 4 November 2025, informing stakeholders of project planning and progress, as well as giving detailed explanations of the business process and market results.



1.4 Description of the IN-Platform: the IGCC project

The International Grid Control Cooperation (“IGCC”) is the implementation project endorsed by all TSOs through ENTSO-E’s Market Committee on 11 February 2016 to establish the European platform for the imbalance netting process, i. e. the “IN-Platform” pursuant to Article 22 of the EB Regulation.



In terms of costs, as specified in the implementation framework for the IN-Platform (“IN IF”):

- › Each member TSO shall bear its own national costs and is solely responsible (i. e.: no joint and several liability) for the due payment of all the costs related to the technical infrastructure necessary for the successful usage of the IN-Platform.
- › The cost sharing principle shall apply to costs incurred after the approval of the INIF. All TSOs agree not to share any costs incurred before the approval of the INIF.

The most important events involving IGCC during 2025 were:

- › As more TSOs participate to PICASSO, the volume that is implicitly netted through PICASSO increases. This gradually reduces the amount of imbalance netting through IGCC. In 2025, around 9.8 TWh of avoided aFRR activation was achieved through IGCC. The financial savings reached more than 301 mil€ in 2025.

1.5 Summary of the costs

	Category		RR-Platform (All TSOs)	mFRR-Platform (All TSOs)	aFRR-Platform (All TSOs)	IN-Platform (All TSOs)	CM IT Solution (All TSOs)	Total [K €]
2018	Establishing & amending	[K €]	2,790	315	166	0	0	3,271
	Operating	[K €]	0	0	0	0	0	0
2019	Establishing & amending	[K €]	5,178	565	317	0	0	6,060
	Operating	[K €]	0	0	0	0	0	0
2020	Establishing & amending	[K €]	1,737	1,958	480	35	0	4,210
	Operating	[K €]	1,710	0	0	0	0	1,710
2021	Establishing & amending	[K €]	900	8,347	653	45	30	9,975
	Operating	[K €]	1,586	0	0	0	0	1,586
2022	Establishing & amending	[K €]	748	6,729*	4,234*	123	8	11,842
	Operating	[K €]	1,586	115*	491*	41	0	2,233
2023	Establishing & amending	[K €]	864	5,722*	855*	0	2,496*	9,937
	Operating	[K €]	1,549	1,427*	1,082*	61	25*	4,144
2024	Establishing & amending	[K €]	211	6,660*	1,775*	0	1,353*	9,999
	Operating	[K €]	1,529	506**	626**	118	228**	3,007
2025	Establishing & amending	[K €]	191	6,736*	864*	0	1,261*	9,052
	Operating	[K €]	1,705	842**	1,113**	83	231**	3,974
2026 forecast	Establishing & amending	[K €]	52****	6,230	605	50	1,777	8,714
	Operating	[K €]	253****	2,083***	1,941****	59	1,030****	5,366

* These numbers cover both, common and regional costs and are thus reported in respectively chapter 2 and 3.

** These are regional costs only.

*** These operating costs are considered as regional costs for establishing as long as the Member TSO is not operational, as regional costs for operating as long as the Member TSO is operating, and as common costs for operating as soon as all Members TSOs that intend to become operational have become operational.

**** TERRE costs for 2026 are only related to the decommissioning of the platform and the closure of the project.



2 Chapter A: Common costs resulting from the coordinated activities of all TSOs participating in the European balancing energy platforms

All the common costs indicated below are to be shared between TSOs in accordance with the rules specified in the respective implementation frameworks.

2.1 Actual costs of 2025

The following table provides an overview of total actual common costs in 2025:

Actual costs 2025			Costs of establishing [€]		Costs of operating [€]	
RR-Platform	All TERRE TSOs' costs	1.a	191,100.00	1.b	1,705,266.30	
mFRR-Platform	All MARI TSOs' costs	2.a	5,541,960.38	2.b	0.00	
aFRR-Platform	All PICASSO TSOs' costs	3.a	363,868.66	3.b	0.00	
IN-Platform	All IGCC TSOs' costs	4.a	0.00	4.b	83,431.00	
CM IT Solution	All BP TSOs' costs	5.a	659,530.78	5.b	0.00	

2.2 Costs of establishing and amending the European balancing energy platforms in 2025

2.2.1 // RR-Platform

The actual costs for establishing and amending the RR-Platform in 2025 were:

TERRE	2025 [€]
Costs for establishing	191,100.00
IT Development	0.00
Optimisation module	0.00
Data management	0.00
Hosting	0.00
IT Monitoring	0.00
Finance service	0.00
Testing	0.00
Central project team	191,100.00
PMO	132,781.20
Business analyst	8,400.00
IT adviser	49,918.80
Other consultancy	0.00

Clarifications:

- › The “Optimisation module” covers the support from the external provider for the design and the development of the AOF of the RR Platform.
- › The “Data Management” covers the support from the external provider for the design and the development of the data management module of the RR Platform.
- › The “Testing” covers the support from PSE for the UAT of the RR platform.
- › The “PMO” considers all PMO support for all groups.
- › The ‘Business analyst’ is an external business analyst engaged to collect the RR requirements and support functional design of the RR IT solution.
- › The “IT adviser” is an external IT project manager engaged to coordinate the different providers and TSOs for the design, development, amendment and testing of the RR IT solution.

TERRE actual costs 2025					
Country	Participants	Member State	Consumption (Nrg_105 a) [GWh]	Amount per TSO Costs for establishing and amending [€]	Amount per TSO Costs for operating [€]
Czech Republic	ČEPS	0	61,304	0	0
France	RTE	1	442,322	96,710	758,161
Italy	Terna	0	300,887	0	0
Poland	PSE	0	157,314	0	0
Portugal	REN	1	48,117	31,809	224,953
Spain	RE	1	235,025	62,581	477,768
Switzerland	Swissgrid	1	62,483	27,387*	244,384
Hungary	MAVIR Zrt.	0	43,387	0	0
TOTAL		7	1,350,839	191,100	1,705,266

* The CAPEX share of Swissgrid is blocked in a bank account, to reflect the status on Swissgrid participation as provided for in EB Regulation Art. 1(6) and 1(7). As the TERRE project will be ended and Swissgrid benefited from the platform at same level as other TSOs, Swissgrid has accepted to release the amount of their blocked bank account after the end of the project. For now, their CAPEX costs are still stored in their blocked bank account. So, the amount of their CAPEX costs is not included in the TOTAL, as other TSOs are still covering these costs.

2.2.2 // mFRR-Platform

The actual costs for establishing and amending the mFRR-Platform in 2025 were:

MARI	2025 [€]
Total costs for establishment and amending [€]	5,541,960.38
General project costs (i. e., external PMO, conveners, experts, legal counsel)	854,855.88
mFRR platform IT development	1,205,883.34
mFRR platform hosting and monitoring (amendment & establishment part like test environments)	1,940,566.67
Third party services (i. e., testing support, simulations, software licenses)	1,540.654.50

Clarifications:

- › The PMO role includes supporting the joint Balancing Platforms Legal WG, the joint Project Management Team, ad-hoc cross-platform TFs, the Balancing Platforms Steering Committee's joint sessions, the Balancing Platforms Joint OPSCOM (second half year), and the PICASSO Budget Management.

MARI actual costs 2025 per TSO				
Country	Participants	Member State	Consumption 2023 [GWh]	Amount per TSO [€]
Austria	APG	1	63,984	167,561.46
Belgium	Elia	1	75,599	183,633.14
Bulgaria	ESO	1	31,534	122,751.56
Croatia	HOPS	1	16,643	102,246.31
Czech Republic	ČEPS	1	56,850	157,625.92
Denmark	Energinet	1	31,674	122,751.56
Estonia	Elering	1	6,249	87,363.00
Finland	Fingrid	1	75,521	183,593.15
France	RTE	1	407,957	645,032.76
Germany	Amprion	0.36311	168,231	294,826.57
	TenneT DE	0.30506	141,336	256,072.85
	TransnetBW	0.13055	60,485	138,823.25
	50Hertz	0.20128	93,254	186,404.12
Greece	IPTO	1	47,305	144,325.22
Hungary	MAVIR ZRt.	1	41,119	136,012.27
Italy	Terna	1	287,361	477,905.52
Latvia	AST	1	6,560	87,877.21
Lithuania	Litgrid	1	11,062	94,013.36
Luxembourg	Creos Luxembourg	1	6,047	35,942.75
Netherlands	TenneT NL	1	106,533	226,740.45
Norway	Statnett	1	126,205	253,896.06
Poland	PSE	1	147,582	283,742.65
Portugal	REN	1	50,230	148,718.79
Romania	Transelectrica	1	43,600	139,337.45
Slovak Republic	SEPS	1	22,132	109,490.85
Slovenia	ELES	1	12,453	96,190.15
Spain	RE	1	229,771	397,707.07
Sweden	Svenska kraftnät	1	123,293	249,976.69
Switzerland	Swissgrid	1	(60,285)	11,398.24 (146,547.63)
TOTAL		26	2,490,570 (2,550,855*)	5,541,960.38

* Amount including Swissgrid

The share of common costs for Swissgrid indicated in the brackets is transferred to the blocked bank account. Transnet BW maintains Power of Attorney over this blocked bank account. If Swissgrid is not allowed by the European

Commission to participate, in accordance with article 1 of EB Regulation, then Swissgrid's financial contribution deposited in the blocked bank account will be released to the benefit of Swissgrid.

2.2.3 // aFRR-Platform

The actual costs for establishing the aFRR-Platform in 2025 were:

PICASSO	2025 [€]
Total cost for establishment and amending [€]	363,868.66
General project costs (i. e., external PMO, external convenors)	339,384.90
aFRR platform IT development	24,483.76

PICASSO actual costs 2025 per TSO				
Country	Participants	Member State	Consumption 2023 [GWh]	Amount per TSO [€]
Austria	APG	1	63,984	10,719.77
Belgium	Elia	1	75,599	11,774.99
Bulgaria	ESO	1	31,534	7,840.31
Croatia	HOPS	1	16,643	6,494.00
Czech Republic	ČEPS	1	56,850	10,098.75
Denmark	Energinet	1	31,674	7,840.31
Estonia	Elering	1	6,249	5,579.43
Finland	Fingrid	1	75,521	11,741.05
France	RTE	1	407,957	41,442.87
Germany	Amprion	0.36311	168,231	18,919.06
	TenneT DE	0.30506	141,336	16,405.92
	TransnetBW	0.13055	60,485	8,895.53
	50Hertz	0.20128	93,254	11,956.93
Greece	IPTO	1	47,305	9,225.46
Hungary	MAVIR ZRt.	1	41,119	8,679.66
Italy	Terna	1	287,361	30,657.67
Latvia	AST	1	6,560	5,581.88
Lithuania	Litgrid	1	11,062	6,016.07
Luxembourg	Creos	1	6,047	2,297.27
Netherlands	TenneT NL	1	106,533	14,511.35
Norway	Statnett	1	126,205	16,294.31
Poland	PSE	1	147,582	18,191.32
Portugal	REN	1	50,230	9,482.62
Romania	Transelectrica	1	43,600	8,897.98
Slovak Republic	SEPS	1	22,132	7,000.97
Slovenia	ELES	1	12,453	6,127.68
Spain	RE	1	229,771	25,517.32
Sweden	Svenska kraftnät	1	123,293	16,005.66
Switzerland	Swissgrid	1	(60,285)	9,672.47 (697.79)
TOTAL		26	2,490,570 (2,550,855*)	363,868.66

* Amount including Swissgrid

The share of common costs for Swissgrid indicated in the brackets is transferred to the blocked bank account. Transnet BW maintains Power of Attorney over this blocked bank account. If Swissgrid is not allowed by the European Commission to participate, in accordance with article 1 of EB

Regulation, then Swissgrid's financial contribution deposited in the blocked bank account will be released to the benefit of Swissgrid.

2.2.4 // IN-Platform

The actual costs for establishing in 2025 were:

IGCC	2025 [€]
Costs for establishing	0.00 €
PMO support	none

Clarifications:

The “PMO support” for the IGCC only bodies was taken over by a TSO. For common groups with the PICASSO bodies, the PMO services are provided by the PICASSO PMO. It is performed by external consultants.

2.2.5 // CM IT Solution

The actual costs for establishing and amending the mFRR-Platform in 2025 were:

CM IT Solution	2025 [€]
Total costs for establishment and amending [€]	659,530.78
General project costs (i. e., PMO, external experts, coordinators)	155,559.58
CM IT solution IT development	147,220.00
CM IT solution hosting and monitoring (establishment part)	356,751.20

CM IT Solution actual costs 2025 per TSO				
Country	Participants	Member State	Consumption 2023 [GWh]	Amount per TSO [€]
Austria	APG	1	63,984	18,928.53
Belgium	Elia	1	75,599	20,841.17
Bulgaria	ESO	1	31,534	13,784.19
Croatia	HOPS	1	16,643	11,409.88
Czech Republic	ČEPS	1	56,850	17,807.33
Denmark	Energinet	1	31,674	13,784.19
Estonia	Elering	1	6,249	9,761.06
Finland	Fingrid	1	75,521	20,775.22
France	RTE	1	407,957	73,867.45
Germany	Amprion	0.36311	168,231	33,636.07
	TenneT DE	0.30506	141,336	29,217.21
	TransnetBW	0.13055	60,485	15,762.79
	50Hertz	0.20128	93,254	21,170.94
Greece	IPTO	1	47,305	16,290.41
Hungary	MAVIR ZRt.	1	41,119	15,301.11
Italy	Terna	1	287,361	54,609.15
Latvia	AST	1	6,560	9,761.06
Lithuania	Litgrid	1	11,062	10,486.54
Luxembourg	Creos	1	6,047	4,023.14
Netherlands	TenneT NL	1	106,533	25,787.65
Norway	Statnett	1	126,205	28,887.45
Poland	PSE	1	147,582	32,317.01
Portugal	REN	1	50,230	16,752.08
Romania	Transelectrica	1	43,600	15,696.83
Serbia	EMS	1	30,325	13,586.33
Slovak Republic	SEPS	1	22,132	12,267.27
Slovenia	ELES	1	12,453	10,750.35
Spain	RE	1	229,771	45,441.67
Sweden	Svenska kraftnät	1	123,293	28,425.78
Switzerland	Swissgrid	1	60,285	18,400.91
TOTAL		27	2,581,180	659,530.78

2.3 Costs of operating the European balancing energy platforms in 2025

2.3.1 // RR-Platform

The RR-Platform entered in operation on 6 January 2020. Costs of operating the TERRE platform in 2025 were:

TERRE	2025 [€]
Operational costs	1,705,266.30
Optimisation module	404,165.50
Data management	283,647.50
Hosting	701,829.70
IT Monitoring	298,771.0
Financial service	16,852.60
Testing	0.00

2.3.2 // mFRR-Platform

Operational costs will only become common costs for operations once all TSOs have accessed the platform. For that reason, there were no common cost for operations in 2025.

2.3.3 // aFRR-Platform

Operational costs will only become common costs for operations once all TSOs have accessed the platform. For that reason, there were no common cost for operations in 2025.

2.3.4 // IN-Platform

The operation of the IN-Platform is covered by the normal operations of the Host TSO (TransnetBW) for operating their system, maximising the efficiencies of using the infrastructure and personnel of an existing TSO and thus minimising costs for all TSOs, including the Host TSO. Thus, no operational costs were incurred in 2025, except JAO invoicing services fees.

IGCC	2025 [€]
Operational costs	83.431
JAO invoicing – Service fees	83,431.00

2.3.5 // CM IT solution

Operational costs will only become common costs for operations once all TSOs have accessed the CM IT solution. For that reason, there were no common cost for operations in 2025.

2.4 Cost forecast for 2026

The following table provides an overview of total cost forecasts for 2026:

Cost forecast 2026		Budget for amending [€]		Budget for operating [€]	
RR-Platform	All TERRE TSOs' decommissioning costs	1.e	51,685	1.f	253,323
mFRR-Platform	All MARI TSOs' costs	2.e	6,230,000	2.f	0*
aFRR-Platform	All PICASSO TSOs' costs	3.e	605,000	3.f	0*
IN-Platform	All IGCC TSOs' costs	4.e	50,000	4.f	58,931
CM IT Solution	All BP TSOs' costs	5.e	1,776,751	5.f	0*

* Operational Costs are expected to remain regional costs for operations until at least end 2026.

2.5 Cost forecast for establishing and amending the European balancing energy platforms in 2026

2.5.1 // RR-Platform

The project approved a budget of € 51,685.00 for project management support to help with the decommissioning of the platform and the end of the project and € 0 for IT Development.

The cost forecast for decommissioning the RR-Platform in 2026 is:

TERRE	2026 [€]
Costs for amending	0.00
IT Development	0.00
Optimisation module	0.00
Data management	0.00
Hosting	0.00
IT Monitoring	0.00
Finance service	0.00
Testing	0.00
Central project team	51,685.00
PMO support	33,710.00
Business analyst	5,000.00
Senior IT adviser	12,975.00
Other consultancy	0.00
Publication in ENTSO-E's Transparency Platform	0.00

Clarifications:

- › The “Optimisation module” covers the support from the external provider for the additional developments of the AOF of the RR-Platform.
- › The “Data Management” covers the support from the external provider for additional developments of the data management module of the RR-Platform.
- › The “Testing” covers the support from PSE for the UAT of the RR platform.
- › The “PMO support” considers all PMO support for all groups.
- › The “Business analyst” is an external business analyst engaged to collect the RR requirements and support the functional design of the RR IT solution.
- › The “Senior IT adviser” is an external IT consultant engaged to coordinate the different providers and TSOs for the development and testing of the RR IT solution.

2.5.2 // mFRR-Platform

As the mFRR-Platform became operational in 2022, the common costs for establishment are solely costs for amending the platform.

The cost forecast for common costs for establishing and amending the mFRR-Platform in 2026 is:

MARI	2026 [€]
Total budget for amending [€]	6,230,000
General project costs (i. e., external PMO, conveners, experts, legal counsel)	1,095,000
mFRR platform IT development	1,740,000
mFRR platform hosting and monitoring (amendment & establishment part like test environments)	2,120,000
Third party services (i. e., testing support)	1,275,000

Clarifications:

The “PMO support” including for the joint bodies of IGCC, MARI and PICASSO: Joint Steering Committee, Joint OPSCOM, Legal WG, joint Project Management Team, ad-hoc cross-platform TFs, and the PICASSO Budget Management. The legal counsel under the general project costs is utilised by IGCC, MARI and PICASSO.

2.5.3 // aFRR-Platform

As the aFRR-Platform became operational in 2022, the common costs for establishment are solely costs for amending the platform.

The cost forecast for common costs establishing and amending the aFRR-Platform in 2026 is:

PICASSO	2026 [€]
Total budget for amending [€]	605,000
General project costs (i. e., external PMO, external conveners)	380,000
aFRR platform IT development	225,000

2.5.4 // IN-Platform

The cost forecast for establishing and amending the IN-Platform in 2026 is:

IGCC	2026 [€]
Costs for amending	50,000
PMO support	0
PICASSO/IGCC Change Requests	50,000

Clarifications:

- › The 'PMO support' is planned to be done by TSO, for joint groups with PICASSO the PICASSO PMO takes over the role.
- › An estimated expense of € 50,000 in 2026 for possible Change Requests is taken into consideration.

2.5.5 // CM IT Solution

The cost forecast for common costs establishing and amending the CM IT solution in 2026 is:

CM IT Solution	2026 [€]
Total budget for amending [€]	1,776,751
General project costs (i. e., PMO, external experts, coordinators)	210,000
CM IT solution IT development	500,000
Increase HW performance	640,000
CM IT solution hosting and monitoring establishment part)	356,751
Third party services (i. e., external audit)	70,000



2.6 Cost forecast for operating the European balancing energy platforms in 2026

2.6.1 // RR-Platform

The cost forecast the decommissioning of the platform and the closure of the project on the operating side in 2026 is:

TERRE	2026 [€]
Operational costs	253,323.30
Optimisation module	150,423.00
Data management	37,199.00
Hosting	65,701.30
IT Monitoring	0.00
Financial service	0.00
Testing	0.00

Clarifications:

- › “Optimisation module” covers the support from external provider for the maintenance and support of the AOF of the RR-Platform.
- › “Data Management” covers the support from the external provider for the maintenance and support of the data management module of the RR-Platform.
- › “Hosting” covers the support from the external provider for the hosting of the RR IT solution (testing and production environments);
- › “IT monitoring” covers the support from external provider for the IT monitoring service of the RR IT solution;
- › “Financial service” covers the support from the external provider for the Finance service (invoicing process based on TSO–TSO settlement).

2.6.2 // mFRR-Platform

Operational costs will only become common costs for operations once all TSOs have accessed the platform. As this is not expected to happen before 2027, there are no common cost for operations expected in 2026. The regional costs for operations are reported in the next chapter.

2.6.3 // aFRR-Platform

Operational costs will only become common costs for operations once all TSOs have accessed the platform. As this is not expected to happen before 2027, there are no common cost for operations expected in 2026. The regional costs for operations are reported in the next chapter.

2.6.4 // IN-Platform

In 2026, the settlement services for the IN-Platform will be performed JAO and will amount to circa 58,931 € for the full year. No other operational costs are borne by the IGCC project given that the operation of the IN-Platform is covered by the normal operations of the Host TSO (TransnetBW) for operating their system, maximising the efficiencies of using the infrastructure and personnel of an existing TSO and thus minimising costs for all TSOs, including the Host TSO.

IGCC	2026 [€]
Operational costs	58,931.00
Financial service	58,931.00

2.6.5 // CM IT Solution

Operational costs will only become common costs for operations once all TSOs have accessed the CM IT solution. As this is not expected to happen before 2027, there are no common cost for operations expected in 2026. The regional costs for operations are reported in the next chapter.

3 Chapter B: Regional costs resulting from the coordinated activities of all TSOs participating in a certain region

3.1 Actual costs of 2025

The following table provides an overview of total regional costs in 2025:

Actual costs 2025		Costs of establishing (€)		Costs of operating (€)	
mFRR-Platform	MARI TSOs' costs	1.a	1,194,096.03	1.b	841,655.34
aFRR-Platform	PICASSO TSOs' costs	2.a	500,262.60	2.b	1,112,788.71
CM IT Solution	BP TSOs' costs	3.a	601,902.70	3.b	231,026.91



3.2 Costs of establishing in 2025

3.2.1 // mFRR-Platform

The actual costs for establishing the mFRR-Platform in 2025 were:

MARI	2025 [€]
Total costs for establishment [€]	1,194,096.03
IT Hosting & IT monitoring	267,671.86
IT support & maintenance	762,162.00
ECP network	164,262.17

mFRR platform actual costs 2025 per TSO				
Country	Participants	Member State	Consumption 2023 [GWh]	Amount per TSO [€]
Belgium	Elia	1	75,599	27,748.62
Bulgaria	ESO	1	31,534	44,464.86
Croatia	HOPS	1	16,643	37,020.51
Denmark	Energinet	1	31,674	44,464.86
Finland	Fingrid	1	75,521	66,395.49
France	RTE	1	407,957	233,591.40
Greece	IPTO	1	47,305	52,311.60
Hungary	MAVIR	1	41,119	49,293.62
Italy	Terna	1	287,361	172,829.47
Netherlands	TenneT NL	1	106,533	75,248.22
Norway	Statnett	1	126,205	92,148.89
Poland	PSE	1	147,582	102,812.41
Romania	Transelectrica	1	43,600	50,500.81
Slovenia	ELES	1	12,453	34,807.33
Sweden	SVK	1	123,293	90,338.10
Switzerland	Swissgrid	1	60,285	20,119.85 (37,624.11)
TOTAL		16	1,634,662	1,194,096.03

The share of regional costs for Swissgrid indicated in the brackets is transferred to the blocked bank account. Transnet BW maintains Power of Attorney over this blocked bank account. If Swissgrid is not allowed by the European Commission to participate, in accordance with article 1 of EB Regulation, then Swissgrid's financial contribution deposited in the blocked bank account will be released to the benefit of Swissgrid.

3.2.2 // aFRR-Plattform

The actual costs for establishing the aFRR-Plattform in 2025 were:

PICASSO	2025 [€]
Total costs for establishment [€]	500,262.60
Hosting & IT monitoring	364,899.40
ECP network	135,363.19

aFRR platform actual costs 2025 per TSO				
Country	Participants	Member State	Consumption 2023 [GWh]	Amount per TSO [€]
Bulgaria	ESO	1	31,534	2,946.16
Croatia	HOPS	1	16,643	29,302.31
Estonia	ELERING	1	6,249	6,290.44
Finland	Fingrid	1	75,521	8,785.38
France	RTE	1	407,957	46,302.42
Greece	IPTO	1	47,305	6,900.91
Hungary	MAVIR	1	41,119	39,016.66
Lithuania	LITGRID	1	11,062	4,512.13
Norway	Statnett	1	126,205	73,096.52
Poland	PSE	1	147,582	40,768.43
Portugal	REN	1	50,230	42,679.45
Romania	Transelectrica	1	43,600	39,972.17
Slovenia	ELES	1	12,453	27,709.79
Spain	RE	1	229,771	47,576.44
Sweden	SVK	1	123,293	71,663.25
Switzerland	Swissgrid	1	60,285	12,740.13 (32,965.10)
TOTAL		16	1.430.808	500.262,60

The share of regional costs for Swissgrid indicated in the brackets is transferred to the blocked bank account. Transnet BW maintains Power of Attorney over this blocked bank account. If Swissgrid is not allowed by the European Commission to participate, in accordance with article 1 of EB Regulation, then Swissgrid's financial contribution deposited in the blocked bank account will be released to the benefit of Swissgrid.

3.2.3 // CM IT Solution

The actual costs for establishing the CM IT Solution in 2025 were:

CM IT Solution	2025 [€]
Total costs for establishment [€]	601,902.70
Support and maintenance	440,467.60
ECP SLA	156,679.55
Hosting Service	4,755.55

CM IT Solution actual costs 2025 per TSO				
Country	Participants	Member State	Consumption 2023 [GWh]	Amount per TSO [€]
Austria	APG	1	63,984	24,071.67
Belgium	Elia	1	75,599	26,403.87
Bulgaria	ESO	1	31,534	17,574.81
Croatia	HOPS	1	16,643	14,492.98
Denmark	Energinet	1	31,674	17,574.81
Estonia	ELERING	1	6,249	12,410.65
Finland	Fingrid	1	75,521	26,403.87
France	RTE	1	407,957	46,727.35
Germany	Amprion	0,363	174,278*	18,255.04
	TenneT DE	0,305	141,336	15,374.49
	TransnetBW	0,131	60,485	8,294.59
	50Hz	0,201	93,254	11,175.14
Greece	IPTO	1	47,305	20,739.95
Hungary	MAVIR	1	41,119	19,490.55
Italy	Terna	1	287,361	69,133.16
Latvia	AST	1	6,560	12,493.94
Netherlands	TenneT NL	1	106,533	32,650.84
Norway	Statnett	1	126,205	36,648.90
Poland	PSE	1	147,582	40,980.14
Portugal	REN	1	50,230	21,323.00
Romania	Transelectrica	1	43,600	19,990.31
Serbia	EMS	1	30,325	17,324.94
Slovak Republic	SEPS	1	22,132	13,049.23
Slovenia	ELES	1	12,453	13,660.05
Spain	RE	1	229,771	9,592.57
Sweden	SVK	1	123,293	36,065.85
TOTAL		23	2,452,983	601,902.70

* Luxembourg's consumption added to Amprion since it operates the LFC area.

3.3 Costs of operating in 2025

3.3.1 // mFRR-Platform

The actual costs for operating the mFRR-Platform in 2025 were:

MARI	2025 [€]
Total costs for operating [€]	841,655.34
IT Hosting & IT monitoring	183,340.14
IT support & maintenance	522,038.00
ECP network	112,510.33
TSO-TSO invoicing	23,766.87

mFRR platform actual costs 2025 per TSO				
Country	Participants	Member State	Consumption 2023 [GWh]	Amount per TSO [€]
Austria	APG	1	63,984	62,507.21
Belgium	Elia	1	75,599	40,088.90
Czech Republic	CEPS	1	56,850	58,782.85
Estonia	ELERING	1	6,249	32,662.19
Germany	Amprion	0.30506	174,278*	112,698.51
	TenneT DE	0.13055	141,336	95,277.55
	TransnetBW	0.20128	60,485	51,566.02
	50Hz	0.36311	93,254	69,157.68
Latvia	AST	1	6,560	32,662.00
Lithuania	LITGRID	1	11,062	34,943.71
Netherlands	TenneT NL	1	106,533	7,018.40
Portugal	REN	1	50,230	55,244.23
Slovak Republic	SEPS	1	22,132	40,952.36
Spain	RE	1	229,771	148,093.73
TOTAL		11	1,098,324	841,655

* Luxembourg's consumption added to Amprion since it operates the LFC area.

3.3.2 // aFRR-Platform

The actual costs for operating the aFRR-Platform in 2025 were:

PICASSO	2025 [€]
Total costs for operating [€]	1,112,788.71
Hosting & IT monitoring	796,707.36
ECP network	295,546.81
TSO-TSO invoicing	20,534.55

aFRR platform actual costs 2025 per TSO				
Country	Participants	Member State	Consumption 2023 [GWh]	Amount per TSO [€]
Austria	APG	1	63,984	49,067.69
Belgium	Elia	1	75,599	53,933.53
Bulgaria	ESO	1	31,534	33,036.76
Czech Republic	CEPS	1	56,850	46,310.61
Denmark	Energinet	1	31,674	36,079.94
Estonia	ELERING	1	6,249	19,218.36
Finland	Fingrid	1	75,521	44,721.61
France	RTE	1	407,957	141,223.40
Germany	Amprion	0,36311	174,278*	88,499.78
	TenneT DE	0,30506	141,336	74,859.97
	TransnetBW	0,13055	60,485	40,444.76
	50Hz	0,20128	93,254	54,404.45
Greece	IPTO	1	47,305	35,138.71
Italy	Terna	1	287,361	139,782.62
Latvia	AST	1	6,560	25,509.31
Lithuania	LITGRID	1	11,062	22,986.57
Netherlands	TenneT NL	1	106,533	66,266.82
Poland	PSE	1	147,582	41,428.61
Slovak Republic	SEPS	1	22,132	32,191.16
Spain	RE	1	229,771	67,684.05
TOTAL		17	2,077,027	1,112,788.71

* Luxembourg's consumption added to Amprion since it operates the LFC area.

3.3.3 // CM IT Solution

The actual costs for operating the CM IT Solution in 2025 were:

CM IT Solution	2025 [€]
Total costs for operating [€]	231,026.91
Support and maintenance	169,063.65
ECP SLA	60,137.95
Hosting Service	1,825.31

CM IT Solution actual costs 2025 per TSO				
Country	Participants	Member State	Consumption 2023 [GWh]	Amount per TSO [€]
Czech Republic	CEPS	1	56,850	22,655.69
France	RTE	1	407,957	46,727.35
Germany	Amprion	0,363	174,278*	25,557.06
	TenneT DE	0,305	141,336	21,524.29
	TransnetBW	0,131	60,485	11,612.43
	50Hz	0,201	93,254	15,645.19
Lithuania	LITGRID	1	11,062	13,410.17
Slovak Republic	SEPS	1	22,132	2,609.85
Spain	RE	1	229,771	47,962.86
Switzerland	Swissgrid	1	60,285	23,322.03
TOTAL		7	1,257,411	231,026.91

* Luxembourg's consumption added to Amprion since it operates the LFC area.

3.4 Cost forecast 2026

According to the CSP Agreements for respectively PICASSO, MARI, and the CM IT Solution there are certain costs that are defined as regional costs until all Members TSOs that intend to become Participating TSOs have become Participating TSOs (i.e. meaning that they are operational). As of 2025 the exact split between establishing and operating

depends on when a Member TSO exactly accesses and the share of costs for establishment and amendment and the share for operating can be only determined once the year 2026 passed. Hence, only summary values for forecasted regional cost for 2026 are provided.

The following table provides an overview of total cost forecasts for 2026:

Cost forecast 2026			Total forecast (€)
mFRR-Platform	All MARI TSOs' costs	1.c	2,083,000
aFRR-Platform	All PICASSO TSOs' costs	2.c	1,941,000
CM IT Solution	All BP TSOs' costs	3.c	1,030,000

3.4.1 // mFRR-Platform

MARI	2026 [€]
Total cost forecast [€]	2,083,000
Hosting & IT monitoring	380,000
IT support & maintenance	1,378,000
ECP network	285,000
TSO-TSO invoicing	40,000

3.4.3 // CM IT Solution

CM IT Solution	2026 [€]
Total cost forecast [€]	1,030,000
Support & maintenance (incl. ECP)	1020,000
Hosting service	10,000

3.4.2 // aFRR Platform

PICASSO	2026 [€]
Total cost forecast [€]	1,941,000
Hosting & IT monitoring	1,415,000
ECP network	484,000
TSO-TSO invoicing	42,000



4 Chapter C: National costs resulting from the activities of TSO(s) in a Member State

4.1 Actual costs of 2025

Category A: Representation in meetings

- i. Time spent in the identified meetings including time for preparation, reported in euro at the rate of each TSOs
- ii: Travel expenses related to the meetings considered in Ai

Category B: National IT implementation IT costs linked to developments and systems for market coupling/ interface between TSO and each platform solely

- i. Men/hour spent for development and testing
- ii. External costs of development and testing (including directly buying IT tools that are needed for market coupling/ for balancing platform matters only)

Country	TSO
Austria	APG – Austrian Power Grid AG
	VÜEN – Vorarlberger Übertragungsnetz GmbH
Belgium	Elia – Elia Transmission Belgium S,A,
Bulgaria	ESO – Electroenergien Sistemen Operator EAD
Croatia	HOPS – Croatian Transmission System Operator Ltd
Czech Republic	ČEPS – ČEPS, a,s,
Denmark	Energinet – Energinet
Estonia	Elering – Elering AS
Finland	Fingrid – Fingrid OyJ (Representing also Kraftnat Åland Ab in physical meetings)
	Kraftnat Åland Ab
France	RTE – Réseau de Transport d'Electricité, S,A
Germany	Amprion – Amprion GmbH
	TransnetBW – TransnetBW GmbH
	TenneT GER – TenneT TSO GmbH
	50Hertz – 50Hertz Transmission GmbH
Greece	IPTO – Independent Power Transmission Operator S,A,
Hungary	MAVIR Zrt, – MAVIR
Ireland	EirGrid – EirGrid plc
Italy	Terna – Terna SpA
Latvia	Augstsprieguma tīkls – AS Augstsprieguma tīkls
Lithuania	LITGRID – LITGRID AB
Luxembourg	CREOS Luxembourg – CREOS Luxembourg S,A,
(The) Netherlands	TenneT TSO – TenneT TSO B,V,
Norway	Statnett – Statnett SF
Poland	PSE – PSE S,A,
Portugal	REN – Rede Eléctrica Nacional, S,A,
Romania	Transelectrica – C,N, Transelectrica S,A,
Slovak Republic	SEPS – Slovenská elektrizačná prenosová sústava, a,s,
Slovenia	ELES – ELES,d,o,o
Spain	REE – Red Eléctrica de España S,A,U
Sweden	Svenska Kraftnat – Affärsverket Svenska Kraftnat
Switzerland	Swissgrid – Swissgrid AG
Northern Ireland	SONI System Operator for Northern Ireland Ltd

National costs, Category A [€]					National costs, Category B [€]				
TERRE	MARI	PICASSO	IGCC	CM IT	TERRE	MARI	PICASSO	IGCC	CM IT
N/A	33,140	38,164	Incl. in PICASSO	6,371	N/A	0	0	0	0
N/A	86,856	48,025	Incl. in PICASSO		N/A	387,922	19,571	Incl. in PICASSO	
N/A	12,802	9,498	0	0	N/A	0	54,000	0	0
N/A	11,770	23,150	0	0	N/A	65,108	19,157	0	0
6,987	34,535	25,094	2,385	4,668	25,815	179,245	185,048	129,814	5,471
N/A	111,480	84,765	5,940	34,190	N/A	350,158	373,508	N/A	N/A
N/A	19,250	5,000	Incl. in PICASSO	Incl. in MARI	N/A	0	12,000	0	0
N/A	12,200	54,300	N/A	N/A	N/A	303,000	0	N/A	N/A
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
53 495	113,015	34 445	Together with PICASSO		N/A	2,849,000	110,000	Together with PICASSO	
N/A	140,311	35,550	Included in PICASSO costs	Included in MARI costs	N/A	9,615	0	Included in PICASSO costs	Included in MARI costs
N/A	14,016	142,911	10,074	Included in MARI costs	N/A	22,160	50,790	44,950	Included in MARI costs
N/A	142,276	99,474	18,100	Included in MARI costs	N/A	624,092	112,000	0	Included in MARI costs
N/A	21,836	20,246	1,378	Included in MARI costs	N/A	46,000	265,228	14,700	Included in MARI costs
N/A	26,500	25,500	500	1,800	N/A	700	102,300	21,800	0
N/A	36,036	29,484	Included in PICASSO	Incl. in MARI and PICASSO	N/A	4614178	3775236	Included in PICASSO	Incl. in MARI and PICASSO
	0	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A
35,249	40,935	62,523	14,776	0	768.78	770,147	138,217	265	0
N/A	6,3 k	2,8 k	Included in PICASSO	Included in MARI	N/A	135k	830k	Included in PICASSO	N/A
N/A	17,6 k	21,5 k	Together with PICASSO	Together with MARI	N/A	0 k	0 k	0 k	0 k
N/A	12,8 K	12,3 K	Together with Picasso	0	N/A	0	0	0	0
N/A	63 K	99 K	Together with Picasso	N/A	N/A	912 K	199 K	0	N/A
N/A	260.376	244,663	N/A		N/A	4.47 M	370,623	N/A	
37,414.44	85,501.15	152,708.08	31,040.10	0	0	0	695,510.02	0	0
7.5 K	23 K	8 K	N/A	0	0	0	0	0	0
N/A	0	0	1,300	0	N/A	190,395	10,054.58	10,806.97	32,359
N/A	38,666	40,476	4,991	7,456	N/A	33,172	27,368	3,000	31,387
N/A	37,975	15,146	0	Included in MARI	N/A	114,421	65,256	19,309	174,312
165,522.30	96,578.16	93,540.46	12,528.40	22,962.60	468.10	71,655.71	1,015,786.32	0.00	63,502.45
N/A	75,000	28,000	N/A	N/A	N/A	280,000	280,000	N/A	N/A
54,000	54,000	43,200	10,800	10,500	0	0	0	0	3,500
N/A	0	N/A	N/A	N/A	N/A	0	N/A	N/A	N/A

4.2 Annex: List of the meetings to be considered for category A

TERRE	MARI	PICASSO	IGCC
TERRE SC	MARI SC	PICASSO SC	IGCC SC
TERRE PMT / Joint PMTs	MARI PMT / joint PMTs	PICASSO PMT / joint PMTs	IGCC PMT / joint PMTs
Legal group	Legal Working Group (LWG)	Legal WG	Legal group
Technical WG (TWG)	Technical Working Group (TWG)	Expert Groups: <ul style="list-style-type: none"> - TF Reporting and Monitoring - TF Pricing and Settlement - TF HVDC (at the moment on hold) - TF National Roadmaps - TF AOF 	Expert group (EG)
Operations Group	Operational Working Group (OWG) OPSCOM	Operational WG OPSCOM	Operations committee (OPSCOM)
	Testing WG	Testing WG	
	<ul style="list-style-type: none"> - IT Working Group (IT WG) - IT Working Group Project Steering Committee (ITWG P-SC) 	IT WG	
	Budget TF	Budget TF	
	Incident Committee	Incident Committee	
	MARI Negotiation Team (MNT)		
	CMM Working Group (CMM WG)		
	Transversal alignment: <ul style="list-style-type: none"> - Transparency Negotiation Team (ETP NT) - CSO TF - Project Coordination Group (PCG) 		

Joint platform meetings (allocation – equally 25% for each platform, in case all 4 platform joint meeting)



+2.3 ▲

+2.9 ▲

-2.1 ▼

Glossary

50Hertz	50Hertz Transmission GmbH
ACER	EU Agency for the Cooperation of Energy Regulators
aFRR	Frequency restoration reserves with automatic activation
aFRRIF	Implementation framework for the aFRRPlatform
Amprion	Amprion GmbH
AOF	Activation Optimisation Function
APG	Austrian Power Grid AG
AST	AS Augstsprieguma tīkls
AT	Austria
BiH	Bosnia and Herzegovina
BE	Belgium
BG	Bulgaria
EB Regulation	Guideline on electricity balancing
CACM Reg.	Guideline on capacity allocation and congestion management
ČEPS	ČEPS, a.s.
CGES	Crnogorski elektroprenosni sistem AD
CH	Switzerland
CMM	Capacity Management Module
CM IT	Capacity Management IT tool
Creos Luxembourg	Creos Luxembourg S.A.
CZ	Czech Republic
DE	Germany
DK	Denmark
EBSG	European Balancing Stakeholder Group
EE	Estonia
Eirgrid	EirGrid plc
Elering	Elering AS
ELES	Eles, d.o.o.

Elia	Elia Transmission Belgium SA
EMS	Akcionarsko društvo Elektromreža Srbije
Energinet	Energinet Elsystemansvar A/S
ESO	Electroenergien Systemen Operator EAD
ES	Spain
EU	European Union
FAT	Factory Acceptance Testing
FI	Finland
Fingrid	Fingrid Oyj
FR	France
GB	Great Britain
GR	Greece
HOPS	Croatian Transmission System Operator Ltd.
HR	Croatia
HU	Hungary
IE	Ireland
IGCC	International Grid Control Cooperation
INIF	Implementation framework for the INPlatform
IPTO	Independent Power Transmission Operator S.A.
IT	Italy
Litgrid	Litgrid AB
LU	Luxembourg
MARI	Manually Activated Reserves Initiative
MAVIR Zrt.	Magyar Villamosenergiaipari Átviteli Rendszerirányító Zártkörűen Működő Részvénytársaság
mFRR	Frequency restoration reserves with manual activation
mFRRIF	Implementation framework for the mFRRPlatform
MNE	Montenegro
MEPSO	Macedonian Transmission System Operator AD

MKD	Macedonia
MoU	Memorandum of Understanding
National Grid	National Grid ESO
NL	Netherlands
NO	Norway
NOSBiH	Nezavisni operator sustava u Bosni i Hercegovini
NRA	National regulatory authority
OST	OST sh.a – Albanian Transmission System Operator
PICASSO	Platform for the International Coordination of Automated Frequency Restoration and Stable System Operation
PL	Poland
PMO	Project Management Officer
PSE	Polskie Sieci Elektroenergetyczne
PT	Portugal
RE	Red Eléctrica de España S.A.U.
REN	Rede Eléctrica Nacional, S.A.
RO	Romania
RR	Replacement reserves
RRIF	Implementation framework for the RRPlatform
SRB	Serbia
RTE	Réseau de Transport d'Electricité
SE	Sweden
SEPS	Slovenská elektrizačná prenosová sústava, a.s.
SI	Slovenia
SK	Slovakia
SLA	Service level agreement
SO Regulation	Guideline on electricity transmission system operation
SONI	System Operator for Northern Ireland Ltd
Statnett	Statnett SF

SVK	Svenska Kraftnät
Swissgrid	Swissgrid AG
TenneT DE	TenneT TSO GmbH
TenneT NL	TenneT TSO B.V.
Terna	Terna – Rete Elettrica Nazionale SpA
TERRE	TransEuropean Replacement Reserves Exchange
Transelectrica	National Power Grid Company Transelectrica S.A.
TransnetBW	TransnetBW GmbH
TSO	Transmission System Operator
UAT	User acceptance testing

The terms used in this document have the meaning of the definitions included in Article 2 of the EB Regulation and in the respective EB methodologies.

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