

# CACM Cost Report of 2024





# **CACM Cost Report of 2024**

**Prepared by all NEMOs and all TSOs  
according to Article 80 of COMMISSION  
REGULATION (EU) 2015/1222 of 24 July 2015  
establishing a guideline on capacity  
allocation and congestion management.**



# Table of Contents

<b>Summary.....</b>	<b>9</b>
SDAC key events in 2024 .....	10
SIDC key events in 2024 .....	11
The cost of market coupling .....	12
<b>Chapter A .....</b>	<b>14</b>
1 Actual SDAC costs of 2024 .....	15
2 Actual SIDC costs of 2024 .....	23
3 Forecast of SDAC costs for 2025 .....	34
4 Forecast of SIDC costs for 2025 .....	39
<b>Chapter B .....</b>	<b>45</b>
<b>Chapter C .....</b>	<b>56</b>
<b>Chapter D .....</b>	<b>57</b>
<b>Glossary .....</b>	<b>58</b>
<b>Annex.....</b>	<b>61</b>
Sharing keys.....	61
<b>Drafting Team .....</b>	<b>110</b>
<b>Imprint.....</b>	<b>111</b>

# Introduction

All Nominated Electricity Market Operators (NEMOs) and All Transmission System Operators (TSOs) report to the regulatory authorities on the costs of establishing, amending and operating Single Day-Ahead (SDAC) and Single Intra-Day Coupling (SIDC) according to the Article 80 of the Commission Regulation (EU) 2015/1222 of 24 July 2015 – CACM Regulation. Costs directly related to SDAC and SIDC shall be clearly and separately identified and auditable. The report shall also provide full details of contributions made to NEMO costs by TSOs in accordance with Article 76 (2).

Similar as last year, the yearly CACM cost report has been prepared by NEMOs and TSOs under coordination of the joint Market Coupling Steering Committee (MCSC) governance.

## Single Day Ahead Coupling

**The aim of SDAC is to create a single pan European cross zonal day-ahead electricity market.** An integrated day-ahead market will increase the overall efficiency of trading by promoting effective competition, increasing liquidity, and enabling a more efficient utilisation of the generation resources across Europe. SDAC allocates scarce cross-border transmission capacity in the most efficient manner by coupling wholesale electricity markets from different regions through a common algorithm, simultaneously considering cross-border transmission constraints and thereby maximising social welfare. SDAC began as a voluntary initiative from NEMOs and TSOs in 2014 with North-Western Europe (NWE) Price Coupling, South-West Europe (SWE) coupling and 4M MC. Until June 2021, there were two operational solutions under SDAC. These were coupled as part of the Interim Coupling project with the aim to integrate MRC and 4MMC. In 2022, SDAC covered most of the EU, and, since from 8<sup>th</sup> June 2022, with the successful go-live of the Flow-Based Market Coupling, the flow-based capacity calculation method was implemented in the Core region. On 29<sup>th</sup> October 2024, there was a successful launch of flow-based market coupling in the Nordic region. This advancement enhanced market integration and included regional improvements, such as a redesigned Nordic congestion income distribution.

Throughout 2024, there have been several changes in the membership of SDAC. In line with the Day-Ahead Operational Agreement (DAOA), BRM became active in Establishing and Amending processes as of 1<sup>st</sup> January. Subsequently, BRM attained operational member status on 16<sup>th</sup> November while ETPA is an observer of DAOA and a non-operational member. As such, SDAC continues to serve 27 countries. In total, 32 TSOs<sup>1</sup> and 18 NEMOs<sup>2</sup> cooperate under the DAOA.

Figure 01



Note: Luxembourg is part of the Amprion Delivery Area. Market participants in Luxembourg have access to the SDAC through the Amprion Delivery Area

The governance of SDAC consists of three layers:

- Joint NEMOs and TSOs: governed by the Single Day-Ahead Coupling Operations Agreement (DAOA);
- NEMO-only: governed by the All NEMO Day Ahead Operation Agreement (ANDOA);
- TSO-only: governed by the TSO Cooperation Agreement for Market Coupling (TCMC<sup>3</sup>).



1 50Hertz, Amprion, APG, AST, Baltic Cable, ČEPS, Creos, HOPS, EirGrid, ESO, Elering, ELES, Energinet, Elia, Fingrid, IPTO, Kraftnät Åland, Litgrid, MAVIR, Transselectrica, PSE, REE, REN, RTE, SEPS, SONI, Statnett, Svenska Kraftnät, TenneT NL, TenneT DE, Terna, and TransnetBW.

2 BRM (non-operational until accession), BSP SouthPool, GROPEX, EirGrid and SONI acting jointly as SEMOpX, EPEX SPOT, ETPA (non-operational until accession), EXAA, GME, HEnEx, HUPX, IBEX, Nasdaq, Nord Pool EMCO, OKTE, OMIE, OPCOM, OTE, and TGE.

3 As of October 2024, the TSO Cooperation Agreements for Single Day-Ahead Coupling (TCDA) and Single Intraday Coupling (TCID) have been merged into one agreement being the TCMC, and to in parallel terminate the TCDA and TCID.

## Single Intraday Coupling

**The aim of SIDC is to create a single EU cross-zonal intraday electricity market.** In simple terms, buyers and sellers of energy – market participants – are able to trade electricity continuously across Europe several hours before or on the day the energy is required.

An integrated market makes intraday trading more efficient across Europe by promoting competition and increasing liquidity (i.e., increasing the ease with which energy can quickly be bought and sold without affecting its price). Additionally, by making it easier to share generation resources and for market participants to allow for unexpected changes in consumption and possible outages.

SIDC is an initiative between NEMOs and TSOs which enables continuous cross-border trading across Europe. SIDC follows on from the Cross Border Intraday (XBID) Project which delivered, in June 2018, the first Go-live of the intraday continuous trading platform. It allows electricity transmission systems to integrate and expand across Europe. The SIDC was launched on 12/13 June 2018 across 15 countries. On 19/20 November 2019 SIDC went live across further seven countries, resulting in 22 countries being coupled. Furthermore, the Northern Italian borders (IT-FR, IT-AT and IT-SI) were integrated into the already coupled intraday region on 21 September 2021. The SIDC topology at the end of 2022 included 25 countries, after the inclusion of Slovakia and Greece in the 4<sup>th</sup> wave that was realised in November. In the 5<sup>th</sup> go-live wave of SIDC in August 2023, ETPA went live as the third NEMO operating in the Dutch market.

On 13 June 2024, Intraday Auctions (IDAs) were introduced across all countries participating in SIDC. The purpose of introducing the intraday auctions is to harmonise the calculation and allocation of cross-border capacities on the intraday market and to price intraday cross-border capacities to reflect their shortage at a given time and thereby send an adequate price signal to the market. IDAs are organised as implicit auctions where collected orders are matched, and cross-zonal capacity is allocated simultaneously for different bidding zone borders. IDAs take into account all valid orders submitted for the respective auctions and determine clearing prices for the relevant bidding zones based on matched orders. For the respective delivery day (hereinafter 'D'), 3 intraday auctions are held in the following time sequence

Figure 02



■ SIDC member countries (EU)

Note: map includes both EU and EEA SIDC member countries

- IDA1: D-1 15:00 for all D delivery hours
- IDA2: D-1 22:00 for all D delivery hours
- IDA3: D 10:00 for delivery hours 12:00–24:00 on D

In March 2025, cross-zonal IDA trading was launched in Romania, having previously been limited to local trading.

In total, 30 TSOs and 17 NEMOs from 27 countries cooperate under the Intraday Operational Agreement (IDOA), the agreement governing SIDC.

The governance of the SIDC consists of three layers:

- Joint NEMOs and TSOs: governed by the Intraday Operation Agreement (IDOA).
- NEMO-only: governed by the ALL NEMO-Intraday Operation Agreement (ANIDOA).
- TSO-only: governed by the TSO Cooperation Agreement for Market Coupling (TCMC<sup>4</sup>).

<sup>4</sup> As of October 2024, the TSO Cooperation Agreements for Single Day-Ahead Coupling (TCDA) and Single Intraday Coupling (TCID) have been merged into one agreement being the TCMC, and to in parallel terminate the TCDA and TCID.



## Joint SDAC and SIDC governance structure

The integrated governance and decision making for both the day-ahead and intraday timeframe ensures coordination, fosters efficiency and created a faster decision-making mechanism. MCSC activities are supported by horizontal joint working groups, which for example address the legal and communication aspects of the couplings. In addition, SDAC as well as SIDC rely on the dedicated Working Groups: Operations Committee (OPSCOM), Change Control, Quality Assurance and Release Management (QARM), and Market and System Design (MSD).

Throughout 2024 several changes have been made to the governance structure of the MCSC. An example here is that the MCSC approved the SIDC post-go-live testing governance framework, which consists of the Central Testing Group and the Extended Testing Group, Sub-Groups of SIDC QARM. Additionally, it endorsed the reactivation of the Governance Taskforce in anticipation of CACM 2.0, as well as the establishment of the EU-GB Taskforce as a sub-group of SDAC QARM, aimed at addressing technical questions from stakeholders regarding the GB Market Coupling initiative on an ad-hoc basis.

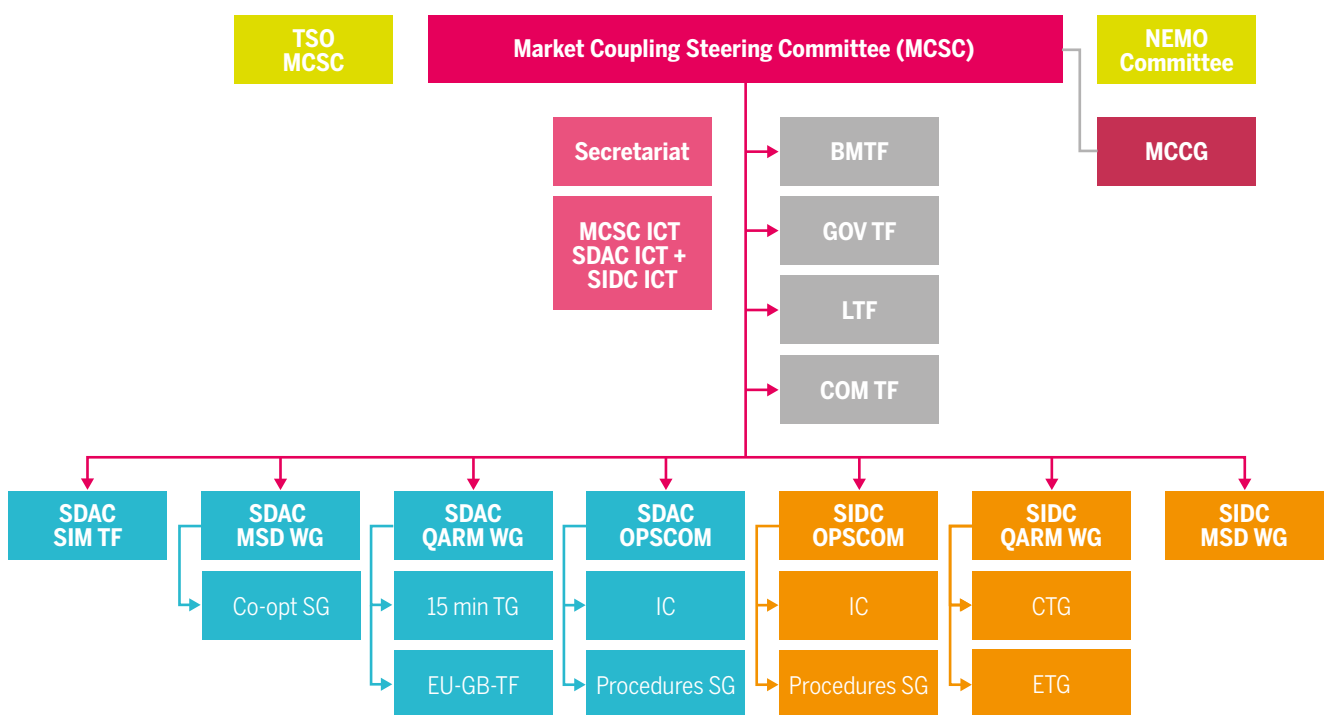


Figure 03



# Summary

Overview of costs since 2017 | E = Establishing and amending, O = Operating

Table O1

Table 01																			
		2017		2018		2019		2020		2021		2022		2023		2024		2025*	
in K, €		E	O	E	O	E	O	E	O	E	O	E	O	E	O	E	O	E	O
SDAC	Joint costs	204	0	902	0	1,368	264	2,028	346	3,240	449	3,397	458	3,384	959	3,624	1,168	5,846	1,877
	All NEMOs	1,315	0	1,314	0	1,134	446	1,149	465	366	761	346	1,009	389	571	313	600	357	643
	All TSOs	0	0	22	0	3	0	15	9	44	34	59	45	186	122	363	149	454	174
	Total	1,519	0	2,238	0	2,505	710	3,192	820	3,650	1,244	3,802	1,512	3,959	1,652	4,300	1,917	6,657	2,694
SIDC	Joint costs	2,846	0	4,854	959	3,780	2,135	4,674	2,571	3,944	2,448	5,385	2,587	6,437	2,932	6,909	4,351	8,581	5,334
	All NEMOs	863	0	679	71	472	235	424	847	354	826	302	847	317	848	177	1,052	190	1,139
	All TSOs	686	0	768	200	606	374	649	282	729	281	696	280	716	340	862	451	1,049	470
	Total	4,395	0	6,300	1,230	4,858	2,744	5,747	3,700	5,027	3,555	6,383	3,714	7,470	4,120	7,948	5,854	9,820	6,943
Regional total	Joint costs	703	592	718	317	1,113	645	576	278	966	139	997	323	959	175	878	183	907	218
	All NEMOs	6	0	1	0	0	117	0	656	0	397	0	107	0	89	0	154	0	180
	All TSOs	637	378	535	429	918	101	1,133	503	893	527	572	535	1,688	389	2,647	529	1,563	961
	Total	1,347	971	1,254	746	2,031	865	2,825	1,437	1,859	1,063	1,569	965	2,647	653	3,525	867	2,471	1,359
Grand Total (common + regional costs)		7,261	971	9,792	1 976	9,394	4,319	11,764	5,957	10,536	5 862	11,754	6,191	14,076	6,425	15,773	8,638	18,948	10,996
Total cost per year		8,232		11,768		13,713		17,721		16,398		17,945		20,501		24,411		29,944	
Total since 2017		130,689																	

\* forecasted costs



## SDAC key events in 2024

During the reporting period, several key milestones were achieved, reflecting significant progress and contributing to the advancement of the SDAC market.

After BRM was designated as a new NEMO in Romania in July 2023, the process of setting up a new NEMO trading hub (e.g., MNA) within the Romanian bidding zone began, along with the implementation of essential connections and updates to the supporting tools. As a result, BRM officially went live on 18 November 2024.

A significant milestone for Day-Ahead coupling was the successful implementation of flow-based market coupling in the Nordic region, which went live on 29 October 2024. This achievement not only marked a significant advancement in market integration but also encompassed the deployment of several regional improvements, such as a new design for the Nordic congestion income distribution.

In 2024, after aligning with market parties, NEMOs concluded that the Second Auctions could not serve as a reliable safety mechanism for market participants, as the price thresholds were unlikely to be triggered. The Second Auction procedure is triggered when specific price thresholds are reached. After that, the order books are reopened, allowing market participants to adjust their positions. The final calculation is then carried out by NEMOs, while the network data remains unchanged by the TSOs. Notably, only certain SDAC countries have the Second Auction procedure in place. Per alignment with market participants, NEMOs decided to decommission the Second Auction process. In the first phase, all the BZs, except the Baltic states, proceeded with the decommissioning process on 29 January 2025. As of the time of writing this report, the decommissioning in the Baltic states is tentatively scheduled for 11 June 2025, in alignment with the go-live of the 15min MTU in Day-Ahead.

At the time of reporting, the latest development in SDAC involves the synchronisation of the Baltic states' electricity systems with the Continental European electricity system, strengthening energy system resilience and enhancing regional energy security.

The change entailed the disconnection of interconnectors with Russia and Belarus, as well as the adaption of the LitPol interconnector from Direct Current (DC) to Alternating Current (AC). This historic milestone occurred on 9 February 2025.

SDAC continues to operate successfully without full decoupling. In fact, no full decoupling of markets has occurred since operations began in February 2014. However, there have been seven partial decoupling events through the years, with the most recent two occurring in 2024. The first partial decoupling event in 2024 took place on 25 June, followed by the second on 24 July. The first event was caused by a technical issue on a local NEMO trading platform, while the second resulted from a combination of mainly technical issues and unexpected processes. An ongoing investigation and continuous improvements are made by the project to identify and apply measures to mitigate (partial) decouplings, implement procedural improvements, enhance communication, and anticipate challenges with future developments, in order to prevent recurrences. For example, procedural updates to clarify messaging and information shared on Shadow Auctions have been implemented along efficiency improvements for incident committee facilitation and reporting on (partial) decoupling cases.

Since the previous report, other minor operational incidents have occurred, all of which have been actively communicated to market participants in accordance with SDAC operational procedures. All incidents are regularly monitored and analysed. Process updates are introduced through the SDAC Operations Committee (OPSCOM) to mitigate relevant risks.

Other important RFCs went live in 2024, in particular:

- MNA extension on the Spanish-French border on 28/02.
- MNA extension on the Austria-Slovenia border on 16/04.

Additionally, one system release for PMB and Euphemia went live on 11/09.



## SIDC key events in 2024

In 2024, the number of NEMOs has respectively expanded with ETPA in the Netherlands since 1 August 2023 and in Germany since 16 April 2024. Furthermore, BRM is live in Romania since 22 May 2024, establishing new MNA areas.

### Continuous Trading (CT)

In the single ID coupling, the joint TSOs and NEMOs' IT systems, with one SOB, a CMM and a SM, continue to perform operationally robustly. Since the inception of SIDC, the number of executed trades has shown a consistent upward trend. More specifically, 115 million trades were executed in 2023, increasing to 170 million in 2023 and reaching 253 million in 2024.

During 2024, two critical incidents in CT have occurred. The first, on 21 May 2024, was caused by two Capacity Management Module (CMM) node instances running in parallel, competing to send data for capacity publishing. This incident resulted in a total of 64 minutes of unexpected outage in the SIDC CT operation. The second incident took place on 28 August 2024 and lasted for 20 minutes. This incident was caused by maintenance performed by the Energy Communication Platform (ECP) hosting party, which led to a disruption in cross-border data processing and delayed responses for TSOs.

Since the previous report, other minor operational incidents have occurred, some of which have been actively communicated to market participants in accordance with SIDC operational procedures. All operational incidents are regularly monitored and analysed. Process updates are introduced through the SIDC Operational Steering Committee (OPSCOM) to mitigate relevant risks.

In 2024 two new SIDC releases were developed for production usage. This concerned the seventh and eighth releases, respectively known as release R4.0 and R4.1. The R4.0 was developed, tested and approved in 2024 and deployed on 16 May 2024 containing new functionalities to integrate IDAs. The following R4.1 release was developed, tested and approved in 2024 and ultimately deployed on 14 January 2025, introducing key upgrades to security and operational efficiency, including a simplified password reset process and more flexible market data submission. It also replaced outdated tools with modern, user-friendly systems, enhancing trade management and minimising operational risks.

### Intraday Auctions (IDAs)

Since the go-live of IDAs, 698 auctions have been performed in 2024, of which 685 sessions have been carried out satisfactorily, with results published to market participants on time, resulting in an IDA availability rate of 98.15 % as of January 2025. In total, thirteen IDA sessions have been cancelled due to local/technical issues at the time of writing the report.

In five and a half months of operations, the IDA market cleared approximately 61 TWh, showing a slight increasing trend. The trading volumes are particularly high during IDA 1.

Other important RFCs went live in 2024, in particular:

- IDA transition to 15min MTU in CZ market. Altogether, 39 RFCs and 6 system releases were implemented in 2024.
- 5 RFCs were related to IDAs only, while 19 were related to continuous trading and 10 affected both markets.
- Several RFCs related to 15min MTU resolution and products went live throughout the year, including in Hungarian BZs, Poland, Baltic countries and Italian Bidding Zones.
- Most RFCs had various aims, like fulfilling flow-based pre-requisites and improving usability.

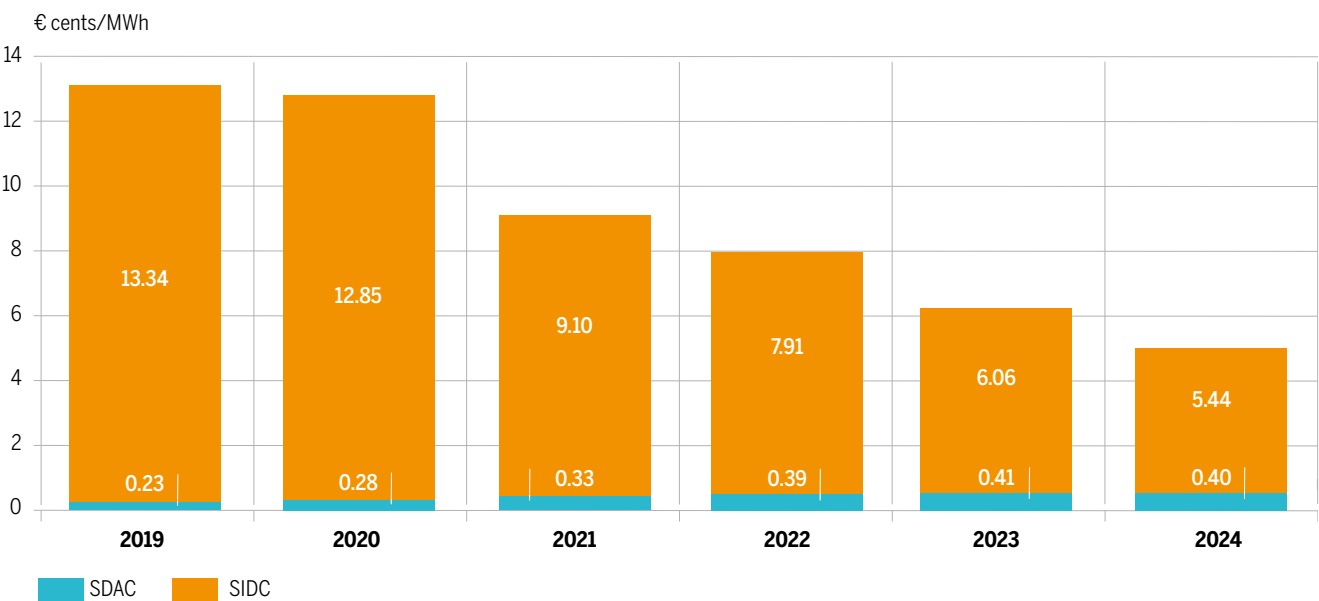
# The cost of market coupling

Although the cost of market coupling has shown an increasing trend over the past years, it is crucial to understand that the investments made in the project have led to a significant increase in traded volumes. To put things into perspective, the cost per traded volume has been steadily decreasing over the years.

In 2019 and 2020, the cost per MWh traded using the SDAC and SIDC platforms was 14 € cents/MWh and 13 € cents/MWh, respectively. In the following years, the cost decreased further: 10 € cents/MWh in 2021, 9 € cents/MWh in 2022, and 7 € cents/MWh in 2023.

In 2024, the cost per MWh using the SDAC and SIDC platforms was further reduced to 6 € cents/MWh.

Figure 04





# Chapter A

## Common costs resulting from the coordinated activities

– of all NEMOs and all TSOs

– all NEMOs only

– all TSOs only participating in the single day-ahead and single intraday coupling

The following table provides an overview of total actual common costs for the SDAC and SIDC in 2024 (excl. regional costs):

Table 02

in €		Establishing and amending costs		Operating costs	
SDAC common costs	All NEMOs and all TSOs costs	1.1	3,624,597	1.2	1,168,633
	All NEMOs costs	1.3	313,454	1.4	600,928
	All TSOs costs	1.5	363,712	1.6	149,439
SIDC common costs	All NEMOs and all TSOs costs	2.1	6,909,325	2.2	4,351,601
	All NEMOs costs	2.3	177,441	2.4	1,052,830
	All TSOs costs	2.5	862,549	2.6	451,918
Total			12,251,078		7,775,349

The following table provides an overview of the 2025 forecast of common costs for the SDAC and SIDC (excl. regional costs):

Table 03

in €		Establishing and amending costs		Operating costs	
SDAC common costs	All NEMOs and all TSOs costs	3.1	5,846,508	3.2	1,877,352
	All NEMOs costs	3.3	357,464	3.4	643,877
	All TSOs costs	3.5	454,942	3.6	174,342
SIDC common cost	All NEMOs and all TSOs costs	4.1	8,581,567	4.2	5,334,029
	All NEMOs costs	4.3	190,708	4.4	1,139,570
	All TSOs costs	4.5	1,049,991	4.6	470,774
Total			16,481,180		9,639,944

# 1 Actual SDAC costs of 2024

## 1.1 The joint all TSOs and all NEMOs costs of establishing and amending the SDAC

The amount of 3,624,597 € consists of:

Table 04

Item	Category	Temporary activity	2024 costs (€)
1.1.1	SIM TF	NO	258,142
1.1.2	MSD	NO	927,516
1.1.3	MCSC PMO	NO	61,568
1.1.4	Meeting Arrangements	NO	41,185
1.1.5	MCCG Conveners	NO	50,750
1.1.6	QARM	NO	294,407
1.1.7	Communication TF Leader	NO	39,920
1.1.8	Legal TF Conveners	NO	55,230
1.1.9	SDAC technical solution: Euphemia Releases	NO	211,775
1.1.10	SDAC technical solution: Leader Remuneration	NO	106,872
1.1.11	SDAC technical solution: PMB Releases	NO	517,029
1.1.12	SDAC technical solution: Support Tasks	NO	22,925
1.1.13	Maintenance contracts – development	NO	853,266
1.1.14	Distributed Computing machines	NO	108,910
1.1.15	SDAC IT tools	NO	752
1.1.16	Central Settlement Entity Fees	NO	74,350
	<b>Total SUM</b>		<b>3,624,597</b>



## 1.2 The joint all TSOs and all NEMOs costs of operating the SDAC

The amount of 1,168,633 € consists of:

Table 05

Item	Category	Temporary activity	2024 costs (€)
1.2.1	MCSC PMO	NO	61,568
1.2.2	Meeting Arrangements	NO	41,185
1.2.3	Communication TF Leader	NO	13,307
1.2.4	Legal TF Conveners	NO	18,410
1.2.5	Simulation Facility Hosting and maintenance costs	NO	100,668
1.2.6	Remuneration PCR PXs	NO	25,000
1.2.7	Functional support (FSFO + calls + leader role)	NO	24,557
1.2.8	OPSOM	NO	201,222
1.2.9	PCR Leader Remuneration	NO	2,100
1.2.10	Maintenance contracts – operations	NO	563,506
1.2.11	Distributed Computing machines	NO	42,761
1.2.12	Central Settlement Entity Fees	NO	74,350
	<b>Total SUM</b>		<b>1,168,633</b>

- The total 2024 Joint NEMOs and TSOs costs ended up consuming 72 % of the amount forecasted for the year. The unspent amounts derive from the postponement of some cost elements to the 2025 fiscal year such as:
  - › Non-uniform pricing development
  - › 15 min MTU project (PM, testing body)
- As of January 2024, a daily rate of 1,000 €/MD was used for internal resources of the TSOs (increased from 925 €/MD).
- The cost sharing methodology for the 2024 Joint NEMOs and TSOs costs is based on the capacity allocation and congestion management (CACM) sharing keys implemented in the DAOA, which entered into force 28 March 2019.

### SDAC Technical Solution

Items 1.1.9, 1.1.10, 1.1.11, 1.1.12 and 1.2.9

The main goal of the SDAC technical solution used in the SDAC is to calculate prices and allocate implicitly cross-zonal capacities across the European electricity market to increase the market transparency and maximise the social welfare by using one single common Algorithm. Within the SDAC project the SDAC technical solution is also known as “PCR”.

In order to allow for better budget tracking throughout the year, the costs of the amendment of the SDAC technical solution is broken down into different items. The majority of the costs derives from research and developments related to the SDAC Algorithm, which was carried out by the third-party service provider N-Side.

### Market and System Design Task Force

Items 1.1.5, 1.1.6, 1.1.7, 1.1.8 and 1.1.9

The mission, objective & general scope of the MSD TF is the following:

- Ensure a robust process is organised and applied to develop the Algorithm and the DA MCO function assets.
- Prepare the detailed development planning for the DA MCO function assets
- Evaluate the performance assessment reports of the algorithm releases
- Translate the relevant market design needs into amendments of requirements or new requirements for the Algorithm and the IT systems.
- Provide an assessment of feasibility, costs and benefits of changes, design them to the level of functional specifications – in line with the strategic guidance provided by MCSC – and ensure that the design phase follows the planning.

- Support the creation of viable release with the focus on the analytical and technical deliverables and market design needs.
- Provide the necessary market, technical and functional knowledge to other bodies and external parties.

## Central Settlement Entity Fees

Items 1.1.25 and 1.2.13

This role is performed by an external service provider, JAO. The following tasks are included in these Central Settlement Entity Fees:

- Budgeting and monitoring activities: JAO convenes the SDAC BMTF and is responsible for communicating, monitoring and managing the budget, together with the TSO and NEMO representatives in the BMTF.
- General PMO support of BMTF deliverables
- Financial settlements for the SDAC Joint NEMOs and TSOs Common costs.
- Monthly and Quarterly documentation and reporting of the SDAC project expenses.
- Coordination role of the yearly CACM cost report
- Providing support to the SDAC parties regarding financial issues: Making suggestions, proposing way forwards if deemed necessary.

## Simulation Facility

Items 1.1.1, 1.2.5, 1.2.6 and 1.2.7

The Simulation Facility is a web-based application in which the Algorithm is embedded, and which allows the simulation of market coupling scenarios based on Historical Data and/or User-defined Data, as well as the reporting on the Simulation Results.

The main costs involving the Simulation Facility which occurred in 2024 were the following:

- Maintenance and hosting by Iorga
- Euphemia release update and testing in SF
- SF task force meetings
- Functional Support Facility Operational (FSFO) activity (support to SF users, Leader role)
- Quarterly remuneration of SDAC Technical Solution NEMOs for Euphemia use
- Study on the inclusion of DisCo in SF and cloud migration

## Maintenance contracts Items 1.1.13 and 1.2.10

These costs relate to non-operational recurring Hosting and Maintenance costs to support the SDAC technical solution. This cost is impacted by developments of the common system. This cost mainly consists of continuous support of the IT systems, software licenses and security services.

Most of these services are provided by the third-party suppliers Unicorn and N-side.

## QARM Items 1.1.6

SDAC QARM, as one of MCSC groups ensuring the functioning and development of the SDAC project, was established in 2023 by MCSC, following the merger of SDAC and SIDC on the organisational level. With the establishment of SDAC QARM, SDAC follows the structure established in SIDC: MSD concerns long-term changes and the design/performance of the algorithm, OPSCOM ensures the operational stability, while QARM's purpose is to ensure Quality Assurance and Release Management of changes in common assets. Especially in SDAC, in 2024, regional projects/changes had a big impact on (performance of) common assets. Therefore, QARM was closely involved in monitoring the quality assurance and planning of regional projects.

The main costs involving the SDAC QARM which occurred in 2024 were the following:

- Regional implementation of 15 min MTU changes through the Regional Implementation Projects (RIPs).
- Testing of 15 min MTU in the 15minTG, as subgroup of QARM.
- Costs for PMO services, compensation of conveners, meeting costs (venue, AV equipment) and travel costs for conveners and PMO.

## MCCG Item 1.1.5

Upon its establishment in 2022, the Market Coupling Consultative Group (MCCG) serves as an enduring forum to consult market participants on progress and challenges related to the design, development, implementation, and operation of the single day-ahead and intraday coupling under the responsibility of the MCSC activities (i.e., MCO that is all NEMOs and TSOs' tasks according to CACM and/or Electricity Regulation). 3 public events are organised, complemented with regular or adhoc interactions between MCSC and market participants associations.

### 1.3 The all NEMOs costs of establishing and amending the SDAC

The amount of 547,258 € consists of:

- NEMO Committee costs for establishing and amending the SDAC totalling 233,804 €
  - › This represents the 50 % of whole NEMO Committee costs totalling 467,609 €
- All NEMOs costs of establishing and amending the SDAC totalling 313,454 €

NEMO Committee cost is split equally between NEMO costs of establishing and amending the SDAC and establishing and amending the SIDC. In underlying cost databases and summary tables the total cost of NEMO Committee is presented. The split between SDAC and SIDC is reflected only in this report document.

**For NEMO Committee costs the total amount (before the equal split between SDAC and SIDC applied) of 467,609 € consists of:**

Table 06

Item	Related Task Force	Temporary activity	2024 costs (€)
1.3.1	NEMO Committee – chairman	NO	56,278
1.3.2	NEMO Committee – PMO	NO	112,385
1.3.3	Reporting and communication Task Force	NO	70,669
1.3.4	Technical Task Force	NO	91,487
1.3.5	Legal Task Force	NO	35,275
1.3.6	NEMO Committee – support	NO	28,332
1.3.7	Governance Task Force	NO	43,595
1.3.8	Cost Task Force	NO	27,275
1.3.9	Exceptional contingency	YES	2,313
	<b>Total SUM</b>		<b>467,609</b>

In 2024 the NEMO Committee (NC) continued in close cooperation with EC, ACER and TSOs fulfilling tasks set out in the CACM Regulation, MCO Plan and related methodologies. The priorities were to maintain the well-functioning operation of the Day-Ahead and Intraday

market coupling and introduction of the Intraday Auctions. NEMOs also intensively worked on MCO Integration Plan, summarising all necessary steps for Energy Community Contracting Parties to integrate into the European energy markets.

#### NEMO cooperation Items 1.3.1, 1.3.2 and 1.3.6

The NEMO Committee's (NC) welcomed the final Electricity Market Design Reform, that confirmed NEMO multilateral and decentralised cooperation in managing the energy markets.

NEMOs continue in close cooperation with the European Commission during the process on update of the CACM Regulation, as well as in close cooperation with ACER on updates of Terms, Conditions and Methodologies. NEMO Committee is also cooperating with ACER in clarification related to update of the REMIT legislation and preparation of REMIT Implementation Act.

NEMOs also continue to closely cooperate with EnC Parties – on the level of dedicated Joint Expert Team on Energy Community and directly with NEMO Committee Observers on the clarification of the necessary steps for the geographical extension of the energy markets to EnC Contracting Parties.

NEMO Committee also triggered work on merging NEMO contracts into one, in order to simplify and strengthen NEMO Cooperation.

## NEMO-TSO cooperation Items 1.3.1, 1.3.2 and 1.3.6

NEMOs and TSOs are continuing in close cooperation via Market Coupling Steering Committee and its task forces. Based on ACER's recommendation on Co-Optimising Energy and Reserves (widely referred to as co-optimisation), NEMOs and TSOs have triggered the work how to implement the co-optimisation improvements in Day-Ahead market.

## Methodologies Item 1.3.4

The NEMO Committee (NC) makes a regular check of the related methodologies. In 2024, NEMOs proposed updates in SDAC as well as SIDC Product methodologies, due to implementation of 15 min. MTU products and activation of Intraday Auctions.

## Communication and Stakeholders involvement Item 1.3.3

The NEMO Committee continued in proactive communication with the Stakeholders, is regularly publishing on its website quarterly summaries of its meeting minutes as well as public versions of contracts and operational procedures and other contents coming from SDAC and SIDC, including detailed reports on decoupling incidents.

The NEMO Committee remains active in relevant forums, such as CACM Pentilateral Coordination Group (PCG), MESC and EU Electricity Regulatory Forum.

NEMOs, TSOs and Market participants (via ETE and Eurelectric) also continue in close cooperation via the Market Coupling Consultative Group (MCCG), which informs Market Participants about ongoing works related to the design, development, implementation, and operation of SDAC and SIDC.

On 24<sup>th</sup> July, the NEMO Committee published the CACM Cost Report 2023, which was prepared under the MCSC governance and in compliance with CACM Regulation, Article 80.1. The report provides comprehensive overview of the Day-Ahead and Intraday Operations. It was later updated also with a SDAC scalability study.

NEMO Committee held its second Annual Conference in Athens on 19<sup>th</sup> September, with participation of more than 100 people. The policy-session covered the changes introduced by the Electricity Market Design Reform as well as discussion on the future of the markets.

NEMO Committee was also actively involved in the Drafting Committee of the Network Code on Demand Response and is also closely aligning its position with Europex.

- As of January 2024, a rate of 1,000 €/MD was used for internal resources of the NEMOs (increased from 925 €/MD).
- The external costs were included at costs without any surplus or commercial benefit for the contracting party.
- NEMO Committee costs (Items 1.3.1, 1.3.2 and 1.3.6) consists of costs of the Chairman of the NEMO Committee for the cost of external PMO support (costs of project management services provided by CGI IT Czech Republic s.r.o. ) and the Costs related to other supportive tasks, mainly related to reporting and communication to define, prepare and perform reporting according to the CACM Regulation.
- The external support for PMO services was selected based on a competitive tender in 2024, the procedure was finalised in 2024.
- The Reporting and Communication TF (Item 1.3.3) is responsible for the NEMO Committee webpage, external communication, preparation of CACM reports and press releases of the NEMO Committee.
- The Technical TF (Item 1.3.4) is responsible for regular review and update of technical methodologies in a centralised approach under the CACM Regulation.
- The Legal TF (Item 1.3.5) is responsible for delivering the contractual framework in accordance with MCO Plan – especially the All NEMO Cooperation Agreement and coordination of work of legal TFs of NEMOs under SDAC and SIDC.
- The Governance Task Force (Item 1.3.7) was established in 2023 in order support proactively the discussions about the future of the CACM Regulation and other governance related topics. Main activities were related to drafting and reviewing of MCO Integration Plan, CACM 2.0, EC market design, providing support in the co-optimisation alignments.
- Cost TF (Item 1.3.8) is responsible for the budgeting, validating and reviewing of costs associated with the NEMO Committee and the preparation of a Cost Report according to CACM Regulation.

**For All NEMOs costs of establishing and amending the SDAC the amount of 313,454 € consists of:**

Table 07

Item	Category	Temporary activity	2024 costs (€)
1.3.11	PMO – General Support	NO	63,323
1.3.12	Support Tasks	NO	156,094
1.3.13	Leader Remuneration	NO	78,708
1.3.14	Facilities	NO	15,329
	<b>Total SUM</b>		<b>313,454</b>

- As of January 2024, a rate of 1,000 €/MD was used for internal resources of the NEMOs (increased from 925 €/MD).
- The external costs were included at cost without any surplus or commercial benefit for the contracting party.
- The external service provider in charge of development and maintenance of the Algorithm – N-SIDE SA – was selected based on a competitive tender prior to the entry into force of CACM.
- The external service provider in charge of development and maintenance of the PMB – Unicorn Systems a.s. – was selected based on a competitive tender prior to CACM's entry into force.
- PMO – General Support (Item 1.3.11) – consists of the costs for the external support related to project management services provided by CGI IT Czech Republic s.r.o. as of 6 May 2020. The external support for PMO services was selected based on a competitive tender.
- Support tasks (Item 1.3.12) refer to ad-hoc tasks performed for the benefit of all NEMOs such as preparation for Algorithm testing including the setup of internal tools or update of materials and documentation related to procedures. These tasks are provided by the internal resources of NEMOs.
- Leader Remuneration (Item 1.3.13) refers to the remuneration of the Legal TF, Procedures TF and Algorithm Working Group, Testing Working Group leadership provided by the internal resources of NEMOs.
- Facilities (Item 1.3.14) refer to costs of the Project-Place (document management system provided by Planview).

## 1.4 The all NEMOs costs of operating the SDAC

**The amount of 600,928 € consists of:**

Table 08

Item	Category	Temporary activity	2024 costs (€)
1.4.11	PMO – General Support	NO	42,677
1.4.12	Support Tasks	NO	2,000
1.4.13	Leader Remuneration	NO	104,069
1.4.14	Facilities	NO	172
1.4.15	Operation Fees	NO	452,010
	<b>Total SUM</b>		<b>600,928</b>

- As of January 2024, a rate of 1,000 €/MD was used for internal resources of the NEMOs (increased from 925 €/MD).
- The external costs were included at costs without any surplus or commercial benefit for the contracting party.
- The external service provider in charge of development and maintenance of the Algorithm – N-SIDE SA was selected based on a competitive tender prior to the entry into force of CACM.

- The external service provider in charge of development and maintenance of the PMB – Unicorn Systems a.s. was selected based on a competitive tender prior to CACM's entry into force.
- PMO – General Support (Item 1.4.11) – consists of the costs for the external support related to project management services provided by CGI IT Czech Republic s.r.o. as of 6 May 2020. The external support for PMO services was selected based on a competitive tender.
- Leader Remuneration (item 1.4.13) refers to the remuneration of the Legal TF, Procedures TF, Algorithm Working Group, Testing Working Group, Operational Committee (OPSCOM) leadership provided by the internal resources of NEMOs for the benefit of the operation of SDAC.
- Facilities (Item 1.4.14) refers to usage of conferencing tool used by NEMOs for SDAC.
- Operation Fees (Item 1.4.15) refers to day-to-day operation of the SDAC assets.

## 1.5 The all TSO-only costs of establishing and amending the SDAC

The amount of 363,712 € consists of:

Table 09

Item	Category	Temporary activity	2024 costs (€)
1.5.1	TSO Legal TF	NO	63,558
1.5.2	TSO MCSC PMO	NO	52,045
1.5.3	TSO Chair	NO	35,125
1.5.4	Central Settlement Entity Fees	NO	26,973
1.5.5	Contingency	NO	3,023
1.5.6	TSO MCSC Masterclasses	NO	26,322
1.5.7	TSO MCSC COM TF	NO	8,951
1.5.8	TSO doers (e.g. Co-Optimisation, 15min,...)	NO	147,715
	<b>Total SUM</b>		<b>363,712</b>

## 1.6 The all TSO-only costs of operating the SDAC

The amount of 149,439 € consists of:

Table 10

Item	Category	Temporary activity	2024 costs (€)
1.6.1	TSO MCSC PMO	NO	52,045
1.6.2	TSO Chair	NO	35,125
1.6.3	Central Settlement Entity Fees	NO	26,973
1.6.4	Contingency	NO	23
1.6.5	TSO MCSC Masterclasses	NO	26,322
1.6.6	TSO MCSC COM TF	NO	8,951
	<b>Total SUM</b>		<b>149,439</b>

- The TSOs-only costs consist of PMO costs of the TSO MCSC (Magnus Energy), TSO Chair cost, Communication cost and the Central Settlement Entity (JAO).
- The external services have been provided based on the direct assignment, as a continuity of the selected service providers, by the TSO MCSC.
- TSO doers (Item 1.5.8) refers to the expenses related to tasks related to co-optimisation support on the further integration of 15min MTU.
- As of January 2024, a daily rate of 1,000 €/MD was used for internal resources of the TSOs (increased from 925 €/MD).
- The cost-sharing methodology for the 2024 TSO-only Actual costs is based on the CACM sharing keys implemented in the TSO Cooperation Agreement for TCMC.

### TSO MCSC PMO Items 1.5.6 and 1.6.3

The activities of this role focus on the facilitation of TSO-only Market Coupling Steering Committee meetings:

- Preparation and facilitation of the TSO MCSC conference calls, including drafting meeting minutes and ensuring the timely completion of agreed actions
- Support the TSO Co-chair in the day-to-day project management of SDAC
- Contract management and taking care of new party adherence
- Single point of contact for request of TSOs MCSC members

### TSO MCSC Masterclasses Items 1.5.2 and 1.6.5

The activities of this role focus on the preparation and coordination of the TSO MCSC masterclasses, taking place 4 times per year (online and physically).

### TSO doers Items 1.5.8

Part of the TSO doers cost includes the TSO SPOC role performed by Pomacon that involves a collaboration on co-optimisation topics within SDAC and related initiatives. In 2024, the TSO SPOC contributed to several areas, including participating the SDAC MSD group, participating in MCSC and ENTSO-E project teams, and supporting regulatory dialogue through engagement with ACER.

The role also included preparing and delivering a training session on co-optimisation, coordinating input for the R&D phase 1 "R0" report, reviewing N-SIDE reports, and contributing to surveys, webinars, and weekly newsletters. These efforts ensured strong TSO involvement and effective stakeholder coordination in the evolving market design process.

Apart from that, the TSO doers includes a cost related to a Research conducted by COMPASS Lexecon, as per MCSC decision in March 2024.

### Central Settlement Entity Fees

Item 1.5.4 and 1.6.3

This role is performed by an external service provider, JAO. The following tasks are included in these Central Settlement Entity Fees:

- Budgeting and monitoring activities: JAO convenes the TSO BMTF and is responsible for communicating, monitoring and managing the budget, together with the TSO representatives in the TSO BMTF.
- General PMO support of BMTF deliverables
- Financial settlements for the TSOs only Common costs.
- Monthly and Quarterly documentation and reporting of the project expenses.
- Providing support to the parties regarding financial issues



## 2 Actual SIDC costs of 2024

Following the Go-live on 13<sup>th</sup> of June 2024 of the SIDC Intraday Auctions, SIDC refers to continuous and Intraday Auctions, unless stated otherwise

### 2.1 The joint all TSOs and all NEMOs costs of establishing and amending the SIDC

The amount of 6,909,325 € consists of:

Table 11

Item	Category	Temporary activity	2024 costs (€)
2.1.1	Aggregated PM costs	NO	1,441,879
2.1.2	Meeting Arrangements	NO	39,224
2.1.3	PCR R&D (MSD R&D & Algorithm Dev & NEMO expert support)	NO	304,857
2.1.4	Technical support tools (PP, ReQTest)	NO	18,000
2.1.5	MCCG Conveners	NO	50,750
2.1.6	DBAG costs – development + Change Requests	NO	2,281,106
2.1.7	DBAG costs – hosting/maintenance ongoing	NO	1,905,690
2.1.8	IDA Implementation PCR side + PMO	YES	664,120
2.1.9	IDA Maintenance (Maintenance Contracts (SIDC specific cost))	YES	203,695
	<b>Total SUM</b>		<b>6,909,325</b>

## 2.2 The joint all TSOs and all NEMOs costs of operating the SIDC

The amount of 4,351,601 € consists of:

Table 12

Item	Category	Temporary activity	2024 costs (€)
2.2.1	Aggregated PM costs	NO	635,406
2.2.2	MPLS costs	NO	77,495
2.2.3	Meeting Arrangements (OP)	NO	39,224
2.2.4	Technical support tools (PP, ReQTest)	NO	28,938
2.2.5	DBAG costs – hosting/maintenance ongoing	NO	1,907,811
2.2.6	IC SPOC (ICCC)	NO	587,613
2.2.7	IDA Maintenance	NO	1,056,108
2.2.8	PCR	NO	19,003
	<b>Total SUM</b>		<b>4,351,601</b>

- The cost sharing methodology for the 2024 Joint NEMOs and TSOs costs is based on the capacity allocation and congestion management (CACM) sharing keys implemented in the IDOA

### The key drivers behind the 2024 costs were:

- Significant efforts spent on the further developments and testing of the IDA implementation
- Recurring hosting and maintenance costs of the SIDC technical solution (DBAG)
- Further developments of the SIDC technical solution (DBAG)
- As of January 2024, a daily rate of 1,000 €/MD was used for internal resources of the NEMOs and TSOs (increased from 925 €/MD).

### XBID Testing Group (XTG) part of Item 2.1.1

In 2024 there was one main activity which was performed by XTG, namely release 4.1. At the beginning of the year XTG started with the preparations for R4.1 and the rest of the year was spent to the actual execution of the different user acceptance phases (UAT's):

- UAT Phase I/R – Functional and Regression tests: from 2024/03/04 until 2024/05/16
- UAT Phase IV – Simulation/Procedural: from 2024/09/02 until 2024/09/06
- UAT Phase VI – DST tests: from 2024/05/17 until 2024/06/21
- Final bug retesting period: from 2024/09/09 until 2024/09/20
- UAT Phase V – Failover tests: from 2024/06/24 until 2024/07/12
- UAT Phase II – Performance tests: from 2024/07/15 until 2024/08/16
- UAT Phase III – Integration/E2E tests: from 2024/08/19 until 2024/08/30

During the end of the year, XTG has already started with the preparation for the next release (R5.0) which covers both scope of R4.2 and R5.0.

*Co-chaired by representatives from BSP, MAVIR, 50 Hz (till July and from August on), ESO (from July till August)*

## IDA Testing Group (IDA TG)

part of Item 2.1.1 and 2.2.1

IDA TG was initiated in 2022 (and closed mid 2024) with 2 major points of focus.

IDA Testing: In 2024, the main goal of the task force was to prepare initial planning for IDA FITs and SITs testing as well as on the finalisation of IDA FIT/SIT testing.

IDA CIP Functional Test: As the IDA CIP was a brand-new technical module linking the SIDC Intraday Auctions and the SIDC continuous technical landscape, the preparation of the testing was done from scratch:

IDA CIP Testing – retesting of fixes

*Co-chaired by NEMO Project Manager and TSO representative of Elia (PMO provided by the same representative)*

## MSD part of Item 2.1.1

MSD manages the technical/design aspects of the joint project. This includes the development of Change Requests which have an impact on the IT solution, alignment on the changes, specifications with DBAG, technical prioritisation of the changes and review of technical documents, assessment of faults, clarifications of points raised by the testing experts, and assessment and validations of major configuration changes.

Major MSD activity in 2024 was design work regarding Flow-based, clarifications of XBID R4.1. and R4.2 CRs and support of IDA implementation including various enhancements identified within development and testing. IDA was mainly managed under IDA SG (see separate section), only systems documentation updates were managed directly under MSD. Discussions on the Flow-based design questions from DBAG + the DBAG assessment of various alternatives from implementation of routing and shipping was organised directly in MSD as FB implementation will at least indirectly impact all SIDC parties. Work on Flow-based was further split to two streams – (a) interim solution considering the design of XBID changes for implementation of FB for IDAs and (b) R&D focusing on exploring alternatives how to overcome issues identified with DBAG in implementation of FB to continuous ID allocation.

MSD intensively supported resolution of issues identified in R4.1. testing.

*Co-chaired by TSO representative from E-Bridge and NEMO representative from NordPool (PMO provided by Magnus)*

## QA&RM part of item 2.1.1.

- QA&RM represents several types of activities focusing on Quality Assurance and Release Management. In practice it means:

- › translation of the business strategic needs in the project planning, covering integration with the working level and system provider
- › establishment and management of the processes which monitor the development of new releases, including resolution of the situations causing a deviation from the project plan and planned quality
- › establishment and management of the processes associated with the geographical extension of SIDC preparation of the 15 MTU go-live for France, Italy and Estlink (wave 4 15 MTU)

- The main drivers leading of the cost attributed in 2024 were mainly services associated with

- › Business topics related to the specific elements of IDA implementation such as business/contractual negotiation with CIP provider,
- › Finalisation of the IDA testing process, go-live preparation and support for market tests.
- › Resolution of the issues which occurred during Implementation of the Release 4.1.
- › Planning activities for the new releases, performance optimisation and minor CRs summarised in the form of SIDC Roadmap
- › Managing of the inputs for the CACM report and for the JET-A cooperation.
- › Clarification of the business and project topics with XBID system provider.
- › Coordination of the planning and activities and execution of the 6<sup>th</sup> wave of SIDC geographical extension + 15 MTU projects.

*Co-chaired by NEMO Project Manager and TSO representative of Elia (PMO provided by the same representative)*

### IDA SG part of Item 2.1.1

IDA SG managed the preparation of technical/design requirements regarding IDA implementation, clarification of design aspects for other governance bodies and also overall coordination. This included in 2024: creation and updates of the configuration files for IDA, providing a guidance regarding specific business aspects to Operations TF as an input for IDA related operational procedures preparations, providing technical know-how for OPSCOM and for QARM in the Go-Live support and for IDA TG in testing activities, preparing information packages for market participants, and providing inputs to Legal TF in order to prepare contractual framework amendment for IDA.

Facilitating cooperation among SIDC and SDAC where required. Monitoring and updating overall plan for IDA implementation.

Concerning support of losses under IDA need of further enhancements of the design was identified in the testing prior IDA Go-Live. These enhancements were in general clarified in 2024 with the intention to transform them to a CR candidate for XBID release 5.1.

*Co-Chaired by TSO representative from E-Bridge and NEMO representative from NordPool (PMO provided by Magnus)*

### LIP Testing Coordinator (LTC) part of Item 2.1.1

The aim of the LTC is to ensure the local parties' systems will be ready to connect to the XBID solution and work correctly with it. In addition, it supports XTG testing activities with End-to-End tests, i.e. enables the identification of XBID solution faults which might be difficult to identify in isolated tests performed by XTG.

All activities in 2024 were related to 6<sup>th</sup> Wave LIP testing execution (BRM accession to operation in continuous allocation within Romania). These activities included Integration, Functional and Simulation tests in the period February to May.

Work was organised with (bi)weekly calls of 6<sup>th</sup> wave parties focusing on alignment concerning testing preparations and planning. During an active test phase (usual duration of a "run" 1 week), daily stand-up calls were organised to clarify/confirm the activities for the given day and summarise the results of the previous test day.

*Chaired by representative from E-Bridge (PMO provided by the same representative)*

### MCCG part of Item 2.1.5

Upon its establishment in 2022, the MCCG serves as an enduring forum to consult market participants on challenges related to the design, development, implementation, and operation of the single day-ahead and intraday coupling under the responsibility of the MCSC activities (i.e., MCO that is all NEMOs and TSOs' tasks according to CACM and/or Electricity Regulation).

### Hosting & Maintenance of the SIDC technical solution and further development of the SIDC technical solution (Deutsche Börse AG [DBAG] costs) Items 2.1.6, 2.1.7 and 2.2.5

The cost consists of recurring Hosting & Maintenance costs and the cost for new functionality or services put into effect. New functionality might also impact the recurring Hosting & Maintenance cost.

Recurring Hosting & Maintenance cost: a total sum of 6,094,608 €, of which 4,186,797 € represent the costs of Establishing and Amending the SIDC and 1,907,811 € represents Operating costs. The formula of dividing the cost between the two categories is agreed by the SIDC parties in the IDOA.

#### The cost consists of elements such as:

- Hosting of the solution in two data centres
- Cost for the security services
- Provision of the solution's environments (production, production-like, test environments) and the infrastructure
- Provision of the continuous IT support and operation
- Availability of the failover mechanism
- Software licences
- Corrective and preventive software corrections
- Adaptive and perfective software enhancements

Every added functionality can have an impact on ongoing Hosting & Maintenance costs depending on its scale and complexity

### Development of SIDC technical solution and IDA implementation Items 2.1.8 and Item 2.1.9

#### New functionality or service:

- ASR032 – Enhanced Performance Test
- ASR033 – Support for 6<sup>th</sup> wave and IDA GL
- ASR034 – Functional Specification for RTS4 Slice B Binary API

- CR107 – Utilisation of MPLS connection for IDA
  - › Extension of the IDA MPLS network for connecting IDA CIP module and the XBID Solution
- CR108 – Final delivery of release 4.1, the implementation of Technical improvements in XBID system.
  - › Masstrade cancellation and SOB ComTrader performance improvement (XBID-5877)
  - › TSO password reset functionality (XBID-5898)
  - › CMM inbound file covering only part of the day (XBID-6165)
  - › FIXIT of JIRAs from previous releases, IMTs
  - › Third party software upgrades
  - › CRs developed and deployed jointly with XBID R4.1:
    - CR112 – XBID Market Admin
    - CR113 – Mix of Capacity Contract Resolution on VDA Connected Interconnectors
    - CR115 CMI Inbound FTC “conditional” extended to Data Intermediary
    - CR120 Adjustment of outbound files processing by CMI
    - CR121 Split of AM Indicator Report
- CR114 Release 4.2 – Improvements in XBID (partially developed in 2024 and in 2025)
  - › Scheduled Service Halt (XBID-5408)
  - › SM – Allocation situational overview (XBID-6487)
  - › CMM Process Execution after System failure (XBID-4935)
  - › Partial decoupling Option 2 (IDA) (XBID-6442)
  - › NSF file update to explicitly identify to which allocation processes the content corresponds (XBID-6490)
  - › Multi Contract Modification (XBID-6477)
  - › FIXIT of JIRAs from previous Releases, IMTs
  - › Third party software upgrades
- CR117 ECP Improvements – prioritisation of incoming messages based on their file type will be introduced
- CR119 – Release 5 – Performance Improvements (partially developed in 2024 and in 2025)
  - › Technical (Reporting Engine, Event Streaming, RabbitMQ optimisation) enhancements necessary for uplifting the Service Boundaries in order the XBID Solution be able to handle 16 Million daily Order Transactions
  - › FIXIT of JIRAs from previous Releases, IMTs
  - › Third party software upgrades
  - › CRs developed jointly with XBID R4.1:
    - CR125 – Routing of Rabbit MQ & HA Removal

- CR122 Release 4.1.50 (partially developed in 2024 and in 2025)
  - › Technical performance improvements (CMM – CMI communication improvement, Parallelisation of the sender)
  - › Third party software upgrades
  - › Mass trade cancellation optimisation (XBID-7537)
  - › Reporting engine technical improvement (XBID-7699)
  - › TradeCaptureReq does not return error in case invalid date (XBID-7630)

## Operational Committee (OPSCOM) part of Item 2.2.1

The key role of OPSCOM is to ensure the continued stable operation of the SIDC system. This is achieved by the standardised operating procedures created, which are continually improved and executed by OPSCOM members internally. Another vital task of OPSCOM is the management production incidents, which members investigate and review to find solutions to be tested and deployed. OPSCOM works to develop operational change requests and enhancements to be implemented in production. In addition, it is under OPSCOM's purview to organise, test and coordinate system maintenances, new version releases and go-lives.

*Chaired by a NEMO and TSO representatives on a rotational basis, PMO provided by Magnus Energy*

## Costs of MPLS Item 2.2.2

It refers to the costs of connection of the central SIDC system into the MPLS network of NEMOs (provided by COLT) and TSOs. Service provided by Orange.

## Incident Committee single point of contact (IC SPOC) Item 2.2.6

The importance of the IC SPOC is to ensure the necessary coordination of all parties during a critical incident. With the involvement of so many parties in a joint project such as SIDC, it is crucial to have a dedicated individual to ensure the necessary actions are taken and ensure the cooperation of vital parties. There are high costs associated with this as NEMOs providing this service must employ individuals 24/7 for the 14 days on duty as well as the following 14 days on backup. These individuals performing the IC SPOC role must also be high-level, well-trained operators, capable of handling such a wide-scale incident.

This is being performed by the operational NEMOs based on a rotational scheme

## 2.3 The all NEMOs costs of establishing and amending the SIDC

The amount of 411,245 € consists of:

- NEMO Committee costs for establishing and amending the SIDC totalling 233,804 €
  - This represents the 50 % of whole NEMO Committee costs totalling 467,609 €
- All NEMOs costs of establishing and amending the SIDC totalling 177,441 €

NEMO Committee cost is split equally between NEMO costs of establishing and amending the SDAC and establishing and amending the SIDC. In underlying cost databases and summary tables the total cost of NEMO Committee is presented. The split between SDAC and SIDC is reflected only in this report document.

**For NEMO Committee costs the total amount (before the equal split between SDAC and SIDC applied) of 467,609 € consists of:**

Table 13

Item	Related Task Force	Temporary activity	2024 costs (€)
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1.3.2	NEMO Committee – PMO	NO	112,385
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1.3.4	Technical Task Force	NO	91,487
1.3.5	Legal Task Force	NO	35,275
1.3.6	NEMO Committee – support	NO	28,332
1.3.7	Governance Task Force	NO	43,595
1.3.8	Cost Task Force	NO	27,275
1.3.9	Exceptional contingency	YES	2,313
	<b>Total SUM</b>		<b>467,609</b>

The detailed information related to the NEMO Committee is available in chapter 1.c under the all NEMOs costs of establishing and amending the SDAC and is not duplicated here.

**For All NEMOs costs of establishing and amending the SIDC the amount of 177,441 € consists of:**

Table 14

Item	Category	Temporary activity	2024 costs (€)
2.3.1	Project Management (PM)	NO	36,937
2.3.2	Expenses	NO	0
2.3.3	Technical WG (TWG)	NO	57,141
2.3.4	Legal TF (LTF)	NO	32,460
2.3.5	Procedures WG (PWG)	NO	23,356
2.3.6	Cost Management WG (CMG)	NO	27,546
	<b>Total SUM</b>		<b>177,441</b>

- As of January 2024, a rate of 1,000 €/MD was used for internal resources of the NEMOs (increased from 925 €/MD).
- The external costs were included at cost without any surplus or commercial benefit for the contracting party.
- The resources for the NEMOs-only part of the SIDC project were secured through external providers support by CGI IT Czech Republic s.r.o. for support tasks of PM (Item 2.3.1), PWG (Item 2.3.5), CMG (Item 2.3.6) and TWG (Item 2.3.3) and by ARIGA for LTF (Item 2.3.4) and by SATOCON for PM (Item 2.3.1).
- The external support for PMO services was selected based on a competitive tender.
- The external support for LTF services was selected based on a direct assignment prior to CACM's entry into force.
- Project Management (Item 2.3.1) is responsible for the project management of NEMOs-only bodies under the SIDC project.
- Expenses (Item 2.3.2) relate mostly to the costs of traveling/meeting place and office management (e.g. postage).
- The TWG (Item 2.3.3) is responsible for the review of technical and functional specification of the SIDC MCO Function System.
- The LTF (Item 2.3.4) is responsible for the delivery of the contractual framework required by NEMOs to establish and operate the SIDC.
- The PWG (Item 2.3.5) is responsible for establishing the NEMOs only procedures of SIDC (Intraday continuous and Intraday auctions procedures), NEMOs activities (drafting and review) related to joint NEMOs and TSOs procedures and for organising the NEMO operational training.
- The CMG (Item 2.3.6) is responsible for the budgeting, validating and reviewing of NEMO-only costs and for validating and reviewing of the joint all TSOs and all NEMOs costs for services contractually linked to NEMOs. CMG is also responsible for preparing and validating the resettlement quarterly reports.

#### For PMO activities (NEMO ID SC) Item 2.3.1 and 2.4.1

PM/PMO represents several types of activities supporting NEMOs in the following project bodies: NEMO SIDC steering committee, Market Coupling steering committee, JSC with DBAG, NEMO Committee, SIDC Integration and Coordination Task Force and Integration and Coordination Task Force with NEMO Committee.

Regarding the scope, it focuses on daily activities related to the communication, agendas, minutes, reporting, preparation of the inputs for decision making processes, etc. and on delivery-oriented activities as negotiation with service providers, contracts and amendment to contracts, strategic planning, etc.

#### The main drivers associated with costs attributed in 2024 were mainly services associated with:

- Negotiation and implementation of XBID Release 4.1, XBID Release 4.1.50, XBID Release 5.0, XBID Release 5.1 and CIP Release 2.0 as well as monitoring of development and testing progress.
- Negotiation of ASRs/CRs and management of contractual changes
- Management of the process and activities for the 6<sup>th</sup> wave go-live (BRM in continuous market)
- NEMO ID SC alignment on IDA related topics
- Regular interaction with NEMO Committee, tasks stemming from the integration, preparations of the process supporting higher level of integration (MCSC)
- Follow up of business requirements related to the REMIT reporting including interaction with the service provider
- Regular clarifications on the project status with NRAs via JET platform
- Resolution of different escalations from working level.



**List of activities performed in 2024:**

- TWG:
  - › Specs review for future releases – R4.1, R4.2, R5.0, R5.1
  - › Specs clarification with DBAG, development of new batching approach for specs updates for Production
  - › Test support (preparation and checking of the results) to releases (R4.1)
  - › Investigation of interim performance improvements
  - › Performance analysis and survey for system boundaries – investigation of new technical KPIs
  - › Performance analysis and survey for system boundaries – development of new approach for testing, so called Enhanced performance testing
  - › Preparation of first set of Enhanced performance tests – scenarios, organisation, test end report
  - › Monthly SLA reporting to NEMOs
  - › ACER REMIT Reporting – solution evolution (CRs), clarification of findings from operations
  - › ACER REMIT Reporting – REMIT IR joint technical revision with ACER
  - › ACER reporting – provision of report data twice a year
- › CACM Annual report – NEMO indicator data preparation, simulation and data provision for Scalability analysis
- › Stakeholders reporting –NEMO indicators data preparation and provision to OPSCOM/AM TF twice a year
- › Support to develop ACER reporting for IDA indicators
- › Support requests of NEMO ID SC, NEMO OPSCOM, OPSCOM, QARM, XTG, MSD
- › Performance assessment for multiple CRs (e.g. New Trading Schedules in MNA areas to allow full SOB, increase of the COLT MPLS bandwidth etc.)
- PWG:
  - › Finalisation of drafting of NEMO Intraday auctions procedures and their continuous enhancement after the IDA Go-live.
  - › Drafting of NEMO Intraday auctions procedures
  - › Support and organisation of the recurring training of operators
  - › Amendments and enhancement of procedures according to findings from operations

## 2.4 The all NEMOs costs of operating the SIDC

The amount of 1,052,830 € consists of:

Table 15

Item	Category	Temporary activity	2024 costs (€)
2.4.1	Project Management (PM)	NO	257
2.4.2	Expenses	NO	71,762
2.4.3	Technical WG (TWG)	NO	57,141
2.4.4	Legal TF (LTF)	NO	10,820
2.4.5	Procedures WG (PWG)	NO	1,933
2.4.6	Cost Management WG (CMG)	NO	11,573
2.4.7	Central Administrator	NO	732,000
2.4.8	NEMO OPSCOM	NO	4,944
2.4.9	IDA Coordinator	NO	162,400
	<b>Total SUM</b>		<b>1,052,830</b>

- As of January 2024, a rate of 1,000 €/MD was used for internal resources of the NEMOs (increased from 925 €/MD).

- The external costs were included at cost without any surplus or commercial benefit for the contracting party.
- The resources for the NEMOs-only part of the SIDC project were secured through external providers support by CGI IT Czech Republic s.r.o. for support tasks of PM (Item 2.4.1), PWG (Item 2.4.5), CMG (Item 2.4.6) and TWG (Item 2.4.3) and by ARIGA for LTF (Item 2.4.4) and by SATOCON for PM (Item 2.4.1).
- The external support for PMO services was selected based on a competitive tender.
- The external support for LTF services was selected based on a direct assignment prior to CACM's entry into force.
- Project Management (Item 2.4.1) is responsible for the project management of NEMOs-only bodies under the SIDC project.
- Expenses (Item 2.4.2) relate to the costs of Hosting and Maintenance of the PMI log analysis tool.
- The TWG (Item 2.4.3) is responsible for the review of the technical and functional specification of the SIDC MCO Function System.
- The LTF (Item 2.4.4) is responsible for the delivery of the contractual framework required by NEMOs to establish and operate the SIDC.
- The PWG (Item 2.4.5) is responsible for establishing the NEMOs-only procedures of SIDC (Intraday continuous and Intraday auctions procedures), NEMOs activities (drafting and review) related to joint NEMOs and TSOs procedures and for organising the NEMO operational training.
- The CMG (Item 2.4.6) is responsible for the budgeting, validating and reviewing of NEMO-only costs and for validating and reviewing the joint all TSOs and all NEMOs costs for services contractually linked to NEMOs. CMG is also responsible for preparing and validating the resettlement quarterly reports.
- The Central Administrator (Item 2.4.7) is responsible for the operation of the central system (XBID Solution) and for the performance of all Central Administrator's procedures in 24/7 regime.
  - › The rate for the Central Administrator role was set up to 2,000 €/24 hours.
  - › The Central Administrator role rotates among NEMOs who volunteered to perform this role.
- The NEMO (SIDC) OPSCOM (Item 2.4.8) is responsible for addressing operational issues related only to NEMOs.
- The IDA Coordinator (Item 2.4.9) is responsible for coordination of IDA operation in 24/7 regime.
  - › The rate was set up to 1,600 €/24 hours.
  - › The role rotates among NEMOs who volunteered to perform this service.

### **NEMO Central Admin** Item 2.4.7

- The importance of the NEMO Central Admin is to ensure that the necessary actions can be triggered on behalf of NEMOs during a critical incident or planned maintenance in SIDC continuous (XBID platform). With the involvement of so many parties in a joint project such as SIDC, it is crucial to have a dedicated individual to ensure the necessary actions are taken and ensure the cooperation of vital parties. There are high costs associated with this as the NEMOs providing this service must employ individuals 24/7 for the 14 days on duty as well as the following 14 days on backup. These individuals performing the NEMO Central Admin role must also be high-level, well-trained operators, capable of handling an action with such a wide-scale impact.

## 2.5 The all TSOs costs of establishing and amending the SIDC

The amount of 862,549 € consists of:

Table 16			
Item	Category	Temporary activity	2024 costs (€)
2.5.1	TSO Legal TF	NO	72,908
2.5.2	TSO MCSC PMO	NO	52,045
2.5.3	TSO MCSC COM TF	NO	8,951
2.5.4	TSO MCSC Masterclasses	NO	51,954
2.5.5	TSO Chair	NO	34,375
2.5.6	ECP/MPLS	NO	92,023
2.5.7	Central Admin (JAO)	NO	2,945
2.5.8	External testers	NO	371,005
2.5.9	TSO doers (e.g. IDA, FB,...)	NO	120,378
2.5.10	Central Settlement Entity Fees	NO	55,942
2.5.11	Contingency	NO	23
	<b>Total SUM</b>		<b>862,549</b>

## 2.6 The all TSOs costs of operating the SIDC

The amount of 451,918 € consists of:

Table 17

Item	Category	Temporary activity	2024 costs (€)
2.6.1	TSO MCSC PMO	NO	52,045
2.6.2	TSO MCSC COM TF	NO	8,951
2.6.3	TSO MCSC Masterclasses	NO	690
2.6.4	TSO Chair	NO	34,375
2.6.5	ECP/MPLS	NO	79,519
2.6.6	Central Admin (JAO)	NO	220,373
2.6.8	Central Settlement Entity Fees	NO	55,942
2.6.9	Contingency	NO	23
	<b>Total SUM</b>		<b>451,918</b>

- For costs for project management (Item 2.6.1) under this category, the remaining 50 % of the costs related to the project management for the SIDC project are included. See cost Item 2.5.1, 2.5.2 and 2.5.5 under chapter 2.5.
- Central Admin (Item 2.6.4) covers efforts related to the configuration of the CCM and SM part of the operational environments. It also covers the 24/7 general availability and on-call service fee. This Central Admin role is provided by JAO.
- ECP Bridge (Item 2.6.5) includes the fee for providing an ECP bridge between XBID ECP and the ENTSO-E Transparency Platform ECP to automatically report TSO transparency data (for example available capacity) from the XBID Solution to the ENTSO-E Transparency Platform.
- A rate of 1,000 €/MD was used for the internal resources of TSOs.

### ECP/MPLS Item 2.5.6

Under this category, 50 % of the costs for providing and maintaining the ECP/MPLS communication channel are summarised. The following service providers contribute to these activities:

- Application support provider: Unicorn;
- Primary hosting provider: Amprion;
- Secondary hosting provider: Coreso;
- General administrator and change control administrator: JAO

**External Testers (Item 2.5.8) were performed by service provider SYSQA/Heeyoo, who tested new releases for the SIDC solution on behalf of all TSOs**

### Costs for project management

Item 2.5.1, 2.5.2 and 2.5.5

Under this category, 50 % of the costs related to the following roles related to the project management for the SIDC project are included:

- TSO chair (50Hertz)
- Legal support (Bernard Energy)
- General PMO support (Magnus)

### 3 Forecast of SDAC costs for 2025

#### 3.1 The joint all TSOs and all NEMOs forecast of establishing and amending the SDAC

The amount of 5,846,508 € consists of:

Table 18

Item	Category	Temporary activity	Forecast 2025 (€)
3.1.1	SF Knowledge Sharing and Training / doers budget	NO	30,000
3.1.2	CR development and testing	NO	50,000
3.1.3	MCSC SIM TF Workshops	NO	18,200
3.1.4	Development costs for the new Simulation Facility	NO	850,000
3.1.5	New Simulation Facility – Remuneration for tendering party	YES	25,000
3.1.6	New Simulation Facility – Remuneration for tender team	YES	50,000
3.1.7	New Simulation Facility – Remuneration for external testing support	YES	25,000
3.1.8	SIM TF Travel and Meeting	NO	12,628
3.1.9	SIM TF Conveners	NO	177,600
3.1.10	SIM TF PMO	NO	69,156
3.1.11	MSD TF budget for support of TF members + MSD doers	NO	102,000
3.1.12	MSD Conveners	NO	219,880
3.1.13	MSD PMO	NO	172,673
3.1.14	Co-opt SG PMO	NO	61,964
3.1.15	MSD TF general contingency	NO	75,000
3.1.16	Co-Optimisation (R&D + meetings prep) (Previous Co-optimisation roadmap study)	YES	200,000
3.1.17	MCSC PMO (Previously MCSC Secretary (ES))	NO	52,319
3.1.18	MCSC Chairs (EA)	NO	48,000
3.1.19	Meeting Arrangements (EA)	NO	37,500
3.1.20	Governance TF	NO	50,000
3.1.21	MCCG Conveners	NO	26,800
3.1.22	MCCG PMO	NO	36,718
3.1.23	QARM Conveners	NO	109,000
3.1.24	QARM 15minTG	YES	45,300
3.1.25	15 min testing support PMO	YES	59,534
3.1.26	QARM PMO	NO	118,099
3.1.27	Communication TF Leader (ES)	NO	44,760
3.1.28	Legal TF Conveners (ES)	NO	70,838
3.1.29	PCR Euphemia Releases	NO	274,706
3.1.30	PCR Leader Remuneration (ES)	NO	120,846
3.1.31	PCR PMB Releases	NO	575,710
3.1.32	PCR Support Tasks	NO	28,350
3.1.33	Maintenance contracts (ES)	NO	810,335
3.1.34	DisCo daily fee (ES)	NO	75,628
3.1.35	SF – Adaption for Euphemia releases	NO	44,475
3.1.36	SF – Adding Euphemia instances	NO	25,000
3.1.37	MSD – PCR R&D (MSD R&D & Algorithm Dev & NEMO expert support)	NO	608,576
3.1.38	SDAC IT tools (previously called Project Place Users)	NO	5,000
3.1.39	Central Settlement Entity Fees (ES)	NO	87,413
3.1.40	Contingency for additional PMO support (ES)	YES	27,500
3.1.41	Contingency (SDAC Joint Establishment costs) (ES)	NO	325,000
	<b>Total SUM</b>		<b>5,846,508</b>

The forecast of 2025 establishing and amending costs was calculated based on the Joint NEMOs and TSOs SDAC costs in 2024.

The total of the 2025 forecast was increased by 2,221,911€ compared to the 2024 actuals. The main drivers behind this increase are:

- A placeholder for the new Simulation Facility (Item 3.1.4).
- Additional SIM TF costs relating to SF tender contract

values, including proposed maximum development costs, maintenance & support costs, contract duration, and final contract values (Items 3.1.5, 3.1.6, 3.1.7).

- Increase in general Contingency and dedicated Contingency budget for MSD TF and PMO costs (Items 3.1.15, 3.1.40, 3.1.41).
- Increase in PMO support requests in Co-opt SG, MCCG, 15min testing support and QARM (Items 3.1.14, 3.1.22, 3.1.25, 3.1.26).

## 3.2 The joint all TSOs and all NEMOs forecast of operating the SDAC

The amount of 1,877,352 € consists of:

Table 19

Item	Category	Temporary activity	Forecast 2025 (€)
3.2.1	MCSC PMO (previously MCSC Secretary (OP))	NO	52,319
3.2.2	MCSC Chairs (OP)	NO	48,000
3.2.3	Meeting Arrangements (OP)	NO	37,500
3.2.4	Communication TF Leader (OP)	NO	14,920
3.2.5	Legal TF Conveners (OP)	NO	23,613
3.2.6	Hosting and maintenance costs – Current SF Tool with the Cloud solution	YES	289,964
3.2.7	Hosting and maintenance costs – Current SF Tool with the Cloud solution (Cloud contingency)	YES	15,000
3.2.8	Hosting and maintenance costs – Current SF Tool with the Cloud solution (Maintenance cost if we move to Cloud)	YES	80,534
3.2.9	Hosting and maintenance costs – New SF Tool	NO	44,100
3.2.10	Remuneration PCR PXs	NO	25,000
3.2.11	Functional support (FSFO + calls + leader role)	NO	119,508
3.2.12	OPSCOM Chairs + Procedures spoc + doers	NO	169,480
3.2.13	OPSCOM PMO	NO	114,729
3.2.14	PCR Leader Remuneration (OP)	NO	2,100
3.2.15	Maintenance contracts (OP)	NO	602,652
3.2.16	DisCo daily fee (OP)	NO	75,628
3.2.17	Central Settlement Entity Fees (OP)	NO	87,413
3.2.18	Contingency for additional PMO support (OP)	YES	14,893
3.2.19	Contingency (SDAC Joint Operational costs) (OP)	NO	60,000
	<b>Total SUM</b>		<b>1,877,352</b>

The forecast of 2025 operating costs was calculated based on the Joint NEMOs and TSOs SDAC costs in 2024.

The total of the 2025 forecast was increased by 708,720 € compared to the 2024 actuals. The main drivers behind this increase are:

- A placeholder for the new Simulation Facility, including Hosting and maintenance costs (Item 3.2.6).
- Increase in general Contingency and dedicated Contingency budget for PMO support (Items 3.2.18, 3.2.19).

### 3.3 The all NEMOs forecast of establishing and amending the SDAC

#### The amount of 1,162,774 € consists of:

- NEMO Committee costs for establishing and amending the SDAC totalling 805,310 €
- All NEMOs costs of establishing and amending the SDAC totalling 357,464 €

Most of the categories of NEMO Committee cost is split equally between NEMO costs of establishing and amending the SDAC and establishing and amending the SIDC but newly established category for Full time expert's work (3.3.11) is shared between DA and ID following the ratio of 70:30. In underlying cost databases and summary tables the total cost of NEMO Committee is presented.

#### For NEMO Committee costs the total amount (before the split between SDAC and SIDC applied) of 1,350,620 € consists of:

Table 20

Item	Category	Temporary activity	Forecast 2025 (€)
3.3.1	NEMO Committee – chairman	NO	97,650
3.3.2	NEMO Committee – PMO	NO	125,906
3.3.3	Reporting and communication Task Force	NO	94,250
3.3.4	Technical Task Force	NO	104,500
3.3.5	Legal Task Force	NO	40,560
3.3.6	NEMO Committee – support	NO	105,496
3.3.7	Governance Task Force	NO	50,875
3.3.8	Cost Task Force	NO	36,383
3.3.9	Exceptional contingency	YES	15,000
3.3.10	Remit TF	YES	30,000
3.3.11	NEMO full time experts (cost sharing 70 % DA, 30% ID)	NO	650,000
	<b>Total SUM</b>		<b>1,350,620</b>

The total of the 2025 forecast was increased by 695,761 € compared to the 2024 budget. The main drivers behind this increase are:

- observed increases in various items are due to the estimations based on actual costs in the middle of 2024, when the forecast was prepared.
- Legal Task Force (Item 3.3.5) budget is increased due to the activities related to the support to Remit TF
- Establishing of a new group: Remit Task Force (Item 3.3.10). The group will be a temporary one, focused on preparing material and NEMO position for discussions in preparation of the REMIT II implementation legislation.
- Establishing of a new budget category: NEMO full time experts (Item 3.3.11). Group of three individuals nominated from amongst the NEMOs for standard rate for internal resources of NEMOs and TSOs (1,000 €/MD). Experts to be appointed with specific tasks. Cost to be shared between all NEMOs forecast of establishing and amending the SDAC and all NEMOs forecast of establishing and amending the SIDC following the sharing key of 70:30.
- The exceptional contingency of 15,000 € is included to cover unexpected tasks in 2025, however its usage must be first approved by the NEMO Committee and in a standard situation it is not expected to be used.



For All NEMOs costs of establishing and amending the SDAC the amount of 357,464 € consists of:

Table 21

Item	Category	Temporary activity	Forecast 2025 (€)
3.3.11	PMO – General Support	NO	61,386
3.3.12	Support tasks	NO	184,650
3.3.13	Leader Remuneration	NO	95,428
3.3.14	Facilities	NO	16,000
	<b>Total SUM</b>		<b>357,464</b>

- Observed increases in various items are due to the estimations based on actual costs in middle of 2024 when the forecast was prepared.

### 3.4 The all NEMOs forecast of operating the SDAC

The amount of 643,877 € consists of:

Table 22

Item	Category	Temporary activity	Forecast 2025 (€)
3.4.11	PMO – General Support	NO	62,008
3.4.12	Support tasks	NO	11,625
3.4.13	Leader Remuneration	NO	119,269
3.4.14	Facilities	NO	200
3.4.15	Operation Fees	NO	450,775
	<b>Total SUM</b>		<b>643,877</b>

- Observed increases in various items are due to the estimations based on actual costs in middle of 2024 when the forecast was prepared.

### 3.5 The all TSOs forecast of establishing and amending the SDAC

The amount of 454,942 € consists of:

Table 23

Item	Category	Temporary activity	Forecast 2025 (€)
3.5.1	TSO Legal TF	NO	40,600
3.5.2	TSO MCSC PMO	NO	61,550
3.5.3	TSO MCSC Masterclasses	NO	37,500
3.5.4	TSO Chair	NO	20,000
3.5.5	TSO doers (e.g. Co-Optimisation, 15min,...)	NO	200,000
3.5.6	Central Settlement Entity Fees	NO	29,138
3.5.7	Contingency	NO	60,000
3.5.8	PMO contingency	NO	6,155
	<b>Total SUM</b>		<b>454,942</b>

The forecast of 2025 establishing and amending costs was calculated based on the TSO only SDAC costs in 2024.

The total of the 2025 forecast was increased by 91,230 € compared to the 2024 actuals. The main drivers behind this increase are:

- Increase of the Co-conveners presence in TSO doers (Item 3.5.5)
- Slight increase of efforts expected from the TSO Legal TF (Item 3.5.1)
- Cost Items 3.5.2, 3.5.3, 3.5.4, 3.5.6 and 3.5.8 have been equally split between the categorisations establishing and amending the SDAC and operating the SDAC

### 3.6 The all TSOs forecast of operating the SDAC

The amount of 174,342 € consists of:

Table 24

Item	Category	Temporary activity	Forecast 2025 (€)
3.6.1	TSO MCSC Masterclasses	NO	37,500
3.6.2	TSO MCSC PMO	NO	61,550
3.6.3	TSO Chair	NO	20,000
3.6.4	Central Settlement Entity Fees	NO	29,138
3.6.5	Contingency	NO	20,000
3.6.6	PMO contingency	NO	6,155
	<b>Total SUM</b>		<b>174,342</b>

The forecast of 2025 operating costs was calculated based on the TSO only SDAC costs in 2024.

The total of the 2025 forecast was increased by 24,903 € compared to the 2024 actuals. The main drivers behind this increase are:

- Slight increase of the PMO services due to high requests from TSO MCSC and the introduction of the PMO contingency
- Cost Items 3.6.1, 3.6.2, 3.6.2, 3.6.3, 3.6.4 and 3.6.6 have been equally split between the categorisations establishing and amending the SDAC and operating the SDAC

## 4 Forecast of SIDC costs for 2025

### 4.1 The joint all TSOs and all NEMOs forecast of establishing and amending the SIDC

The amount of 8,581,567 € consists of:

Table 25

Item	Category	Temporary activity	Forecast 2025 (€)
4.1.1	Communication TF Conveners (EA)	NO	44,760
4.1.2	Legal TF Conveners (EA)	NO	70,838
4.1.3	OTF Convener	NO	18,200
4.1.4	OTF PMO	YES	14,799
4.1.5	QARM Chairs	NO	220,452
4.1.6	QARM PMO	YES	59,573
4.1.7	XTG Convener	NO	378,000
4.1.8	IDA TG PMO	YES	19,858
4.1.9	XTG PMO	YES	45,208
4.1.10	15 min MTU testing PMO	NO	27,282
4.1.11	MCSC PMO (EA)	YES	52,319
4.1.12	MCSC Chairs	NO	48,000
4.1.13	Meeting Arrangements (EA)	NO	37,500
4.1.14	MSD/IDA Conveners + doers	NO	464,350
4.1.15	MSD/IDA PMO	YES	61,384
4.1.16	MSD TF budget for support of TF members	NO	18,000
4.1.17	FB external support	NO	300,000
4.1.18	Governance TF	NO	50,000
4.1.19	MCCG Conveners	NO	26,800
4.1.20	MCCG PMO	YES	36,718
4.1.21	Technical support tools (PP, ReQTest)	NO	30,480
4.1.22	DBAG costs – development + CRs	NO	2,300,000

Table 25

Item	Category	Temporary activity	Forecast 2025 (€)
4.1.23	DBAG costs – hosting/maintenance ongoing	NO	2,327,500
4.1.24	DBAG costs – hosting/maintenance increase with CRs	NO	43,750
4.1.25	IDA Implementation PMB, Euphemia, IDA CIP	NO	412,116
4.1.26	PCR Euphemia Releases (SIDC portion)	NO	117,731
4.1.27	PCR Leader Remuneration (SIDC portion)	NO	51,791
4.1.28	PCR PMB Releases (SIDC portion)	NO	246,733
4.1.29	PCR Support Tasks (SIDC portion)	NO	12,150
4.1.30	Maintenance Contracts (SIDC specific cost)	NO	305,672
4.1.31	DisCo daily fee (SIDC portion)	NO	32,412
4.1.32	PCR R&D (MSD R&D & Algorithm Dev & NEMO expert support)	NO	260,818
4.1.33	Minsait PMI LAT (EA)	NO	22,795
4.1.34	Contingency for additional PMO support	YES	23,579
4.1.35	Contingency	NO	400,000
	<b>Total SUM</b>		<b>8,581,567</b>

The forecast for 2025 establishing and amending costs was calculated based on the Joint NEMOs and TSOs costs in 2024.

The total of the 2025 forecast was increased by 1,672,241 € compared to the 2024 actuals. The main drivers behind this increase are:

- An increase in the PMO support requests in Co-opt, MCCG, 15min testing support and QARM.
- The expected increase in the Hosting & Maintenance costs.
- An introduction of General Contingency and PMO Contingency.

## 4.2 The joint all TSOs and all NEMOs forecast of operating the SIDC

The amount of 5,334,029 € consists of:

Table 26

Item	Category	Temporary activity	Forecast 2025 (€)
4.1.1	Communication TF Conveners (OP)	NO	14,920
4.1.2	Legal TF Conveners (OP)	NO	23,613
4.1.3	OTF Conveners	NO	18,200
4.1.4	OTF PMO	YES	14,799
4.1.5	OPSCOM Chairs + doers	NO	486,100
4.1.6	OPSCOM PMO	YES	90,241
4.1.7	MPLS costs prefinanced by NEMOs respectively TSOs and defined as joint costs	NO	61,800
4.1.8	MCSC PMO (OP)	YES	52,319
4.1.9	MCSC Chairs	NO	48,000
4.1.10	Meeting Arrangements (OP)	NO	37,500
4.1.11	Technical support tools (PP, ReQTest)	NO	30,480
4.1.12	DBAG costs – hosting/maintenance ongoing	NO	2,062,420
4.1.13	DBAG costs – hosting/maintenance increase with CRs	NO	43,750
4.1.14	DBAG costs – hosting/maintenance contingency	NO	30,000
4.1.15	IC SPOC (ICCC)	NO	584,000
4.1.16	Operation of IDA asset	NO	292,000
4.1.17	Maintenance IDA CIP – hosting/maintenance on going	NO	318,848
4.1.18	Maintenance Euphemia	NO	869,390
4.1.19	Maintenance PMB	NO	36,372
4.1.20	NTT Global Data Centers	NO	23,,175
4.1.21	DisCo daily fee	NO	32412
4.1.22	PCR Leader Remuneration (OP)	NO	900
4.1.23	Minsait PMI LAT (OP)	NO	98,890
4.1.24	Contingency for additional PMO support	YES	13,900
4.1.25	Contingency	NO	50,000
	<b>Total SUM</b>		<b>5,334,029</b>

The forecast for 2025 operating costs was calculated based on the Joint NEMOs and TSOs costs in 2024.

The total of the 2025 forecast was increased by 982,428 € compared to the 2024 actuals. The main drivers behind this increase are:

- An increase in OPSCOM activity as a result of IDA Go-Live and its dependency on real-time development in XBID production.
- The expected increase in the Hosting & Maintenance costs and in DBAG.
- An introduction of General Contingency and PMO Contingency.

### 4.3 The all NEMOs forecast of establishing and amending the SIDC

#### The amount of 736,018 € consists of:

- NEMO Committee costs for establishing and amending the SIDC totalling 545,310 €
- All NEMOs costs of establishing and amending the SIDC totalling 190,708 €

Most of the categories of NEMO Committee cost is split equally between NEMO costs of establishing and amending the SDAC and establishing and amending the SIDC but newly established category for Full time expert's work (3.3.11) is shared between DA and ID following the ratio of 70:30. In underlying cost databases and summary tables the total cost of NEMO Committee is presented.

#### For NEMO Committee costs the total amount (before the split between SDAC and SIDC applied) of 1,350,620 € consists of:

Table 27

Item	Category	Temporary activity	Forecast 2025 (€)
3.3.1	NEMO Committee – chairman	NO	97,650
3.3.2	NEMO Committee – PMO	NO	125,906
3.3.3	Reporting and communication Task Force	NO	94,250
3.3.4	Technical Task Force	NO	104,500
3.3.5	Legal Task Force	NO	40,560
3.3.6	NEMO Committee – support	NO	105,496
3.3.7	Governance Task Force	NO	50,875
3.3.8	Cost Task Force	NO	36,383
3.3.9	Exceptional contingency	YES	15,000
3.3.10	Remit TF	YES	30,000
3.3.11	NEMO full time experts (cost sharing 70 % DA, 30 % ID)	NO	650,000
	<b>Total SUM</b>		<b>1,350,620</b>

The detailed information related to the NEMO Committee is available in chapter 3.c under the all NEMOs costs of establishing and amending the SDAC and is not duplicated here.

#### For All NEMOs costs of establishing and amending the SIDC the amount of 190,708 € consists of:

Table 28

Item	Category	Temporary activity	Forecast 2025 (€)
4.3.1	Project Management (PM)	NO	43,262
4.3.2	Expenses	NO	0
4.3.3	Technical WG (TWG)	NO	70,971
4.3.4	Legal TF (LTF)	NO	19,215
4.3.5	Procedures WG (PWG)	NO	22,955
4.3.6	Cost Management WG (CMG)	NO	34,304
	<b>Total SUM</b>		<b>190,708</b>

- Observed increases in various items are due to the estimations based on actual costs in middle of 2024 when the forecast was prepared.

#### 4.4 The all NEMOs forecast of operating the SIDC

The amount of 1,139,570 € consists of:

Table 29

Item	Category	Temporary activity	Forecast 2025 (€)
4.4.1	Project Management (PM)	NO	18,541
4.4.2	Expenses	NO	0
4.4.3	Technical WG (TWG)	NO	70,971
4.4.4	Legal TF (LTF)	NO	6,405
4.4.5	Procedures WG (PWG)	NO	2,991
4.4.6	Cost Management WG (CMG)	NO	14,702
4.4.7	Central Administrator	NO	730,000
4.4.8	NEMO OPSCOM	NO	3,960
4.4.9	IDA Coordinator	NO	292,000
	<b>Total SUM</b>		<b>1,139,570</b>

- Compared to previous year, the Expenses (Item 4.4.2) which used to cover the Hosting and Maintenance cost for PMI LAT tool has been recategorised as the joint all TSOs and all NEMOs cost (see 4.1.23).
- Compared to previous year, the IDA Coordinator (Item 4.4.9) cost will in 2025 cover full year 24/7 regime.
- Other observed increases in various items are due to the estimations based on actual costs in middle of 2024 when the forecast has been prepared.

#### 4.5 The all TSOs forecast of operating the SIDC

The amount of 1,049,991 € consists of:

Table 30

Item	Category	Temporary activity	Forecast 2025 (€)
3.5.1	TSO Legal TF	NO	40,600
3.5.2	TSO MCSC PMO	NO	61,550
3.5.3	TSO MCSC Masterclasses	NO	37,500
3.5.4	TSO Chair	NO	20,000
3.5.5	ECP/MPLS	NO	85,399
3.5.6	Central Admin (JAO)	NO	5,600
3.5.7	External testers	NO	480,000
3.5.8	TSO doers (e.g. IDGCT, FB Expert,...)	NO	200,000
3.5.9	Central Settlement Entity Fees	NO	53,188
3.5.10	Contingency	NO	60,000
3.5.11	PMO contingency	NO	6,155
	<b>Total SUM</b>		<b>1,049,991</b>

The forecast of 2025 establishing and amending costs was calculated based on the TSO only SIDC costs in 2024.

The total of the 2025 forecast was increased by 187,442 € compared to the 2024 actuals. The main drivers behind this increase are:

- Increase of the Co-conveners presence in TSO doers (Item 3.6.8)
- Slight increase of efforts expected from the TSO Legal TF (Item 3.6.1)
- Cost Items 3.6.2, 3.6.3, 3.6.4, 3.6.5, 3.6.9 and 3.6.11 have been equally split between the categorisations establishing and amending the SDAC and operating the SDAC

### 4.6 The all TSOs forecast of operating the SIDC

The amount of 470,774 € consists of:

Table 31			
Item	Category	Temporary activity	Forecast 2025 (€)
3.6.1	TSO MCSC PMO	NO	61,550
3.6.2	TSO MCSC Masterclasses	NO	37,500
3.6.3	TSO Chair	NO	20,000
3.6.4	ECP/MPLS	NO	85,399
3.6.5	Central Admin (JAO)	NO	164,891
3.6.6	ECP bridge JAO	NO	22,092
3.6.7	Central Settlement Entity Fees	NO	53,188
3.6.8	Contingency	NO	20,000
3.6.9	PMO contingency	NO	6,155
	<b>Total SUM</b>		<b>470,774</b>

The forecast of 2025 operating costs was calculated based on the TSO only SIDC costs in 2024.

The total of the 2025 forecast was increased by 18,856 € compared to the 2024 actuals. The main drivers behind this increase are:

- Slight increase of the PMO services due to high requests from TSO MCSC and the introduction of the PMO contingency (3.7.9)
- Cost Items 3.7.1, 3.7.2, 3.7.3, 3.7.4, 3.7.7 and 3.7.9 have been equally split between the categorisations establishing and amending the SDAC and operating the SDAC



# Chapter B

## Regional costs resulting from the coordinated activities of all NEMOs or TSOs cooperating in a certain region

The following projects where NEMOs or TSOs cooperated in a certain region in line with CACM Article 80 (2)(b) were recognised in 2017:

Table 32

1	Core	6	Nordic Operations
2	Core – IDA RIP	7	Baltic MNA
3	Nordic projects	8	Baltic – IDA RIP
4	IBWT	9	SWE – IDA RIP
5	IBWT – IDA RIP	10	Hansa

The following table provides an overview of the total actual common regional costs in 2024:

Table 33

		Establishing and amending costs		Operating costs	
	All NEMOs and all TSOs costs	1.1	878,913	1.2	183,339
	All NEMOs costs	1.3	0	1.4	154,518
	All TSOs costs	1.5	2,964,090	1.6	529,404
<b>Total</b>			<b>3,843,003</b>		<b>867,261</b>

## 1. CORE

The Core Flow-Based Market Coupling project promotes the development and implementation of a Flow-Based methodology across the whole Core capacity calculation region (Core CCR) in the framework of SDAC. The Core CCR consists of the bidding zone borders between the following EU Member States' bidding zones: Austria, Belgium, Croatia, the Czech Republic, France, Germany, Hungary, Luxembourg, the Netherlands, Poland, Romania, Slovakia and Slovenia. The project go-live was in June 2022.

### Actual costs for 2024

The following table provides an overview of the total actual regional common costs in 2024:

Table 34

Regional costs	2024 establishing and amending costs (€)	2024 operating costs (€)
NEMOs and TSOs costs	230,061	51,212
NEMOs costs	0	100,542
TSOs costs	4,463	1,913

The joint NEMOs and TSOs costs of operating Core FB MC totalling 51,212 € consist of:

Table 36

Category	Temporary activity	2024 costs (€)
CIP services	YES	51,212
<b>Total SUM</b>		<b>51,212</b>

The TSOs costs of establishing and amending Core FB MC totalling 4,463 € consist of:

Table 38

Category	Temporary activity	2024 costs (€)
JSC Chair	YES	4,463
<b>Total SUM</b>		<b>4,463</b>

The joint NEMOs and TSOs costs of establishing and amending Core FB MC totalling 230,061 € consist of:

Table 35

Category	Temporary activity	2024 costs (€)
PMO	YES	216,909
Convenorships	YES	13,152
<b>Total SUM</b>		<b>230,061</b>

The NEMOs costs of operating Core FB MC totalling 100,542 € consist of:

Table 37

Category	Temporary activity	2024 costs (€)
CIP services	NO	100,542
<b>Total SUM</b>		<b>100,542</b>

The TSOs costs of operating Core FB MC totalling 1,913 € consist of:

Table 39

Category	Temporary activity	2024 costs (€)
JSC Chair	YES	1,913
<b>Total SUM</b>		<b>1,913</b>

Forecast for 2025

The following table provides an overview of the forecast of regional common costs for 2025:

Table 40		
Regional costs	2025 establishing and amending costs (€)	2025 operating costs (€)
NEMOs and TSOs costs	204,909	46,229
NEMOs costs	0	88,160
TSOs costs	15,000	0

The joint NEMOs and TSOs costs of establishing and amending Core FB MC totalling 204,909 € consist of:

Table 41		
Category	Temporary activity	Forecast 2025 (€)
PMO	YES	175,309
Convenorships	YES	29,600
Total SUM		204,909

The NEMOs costs of operating Core FB MC totalling 88,160€ consist of:

Table 43		
Category	Temporary activity	Forecast 2025 (€)
PMO	YES	88,160
Total SUM		88,160

The joint NEMOs and TSOs costs of operating Core FB MC totalling 46,229 € consist of:

Table 42		
Category	Temporary activity	Forecast 2025 (€)
PMO	YES	46,229
Total SUM		46,229

The TSOs costs of establishing and amending Core FB MC totalling 15,000 € consist of:

Table 44		
Category	Temporary activity	Forecast 2025 (€)
PMO	YES	15,000
Total SUM		15,000

## 2. CORE – IDA

In accordance with the Commission Regulation (EU) 2015/1222 (CACM Regulation), it is a joint task of TSOs and NEMOs to implement the Single Intraday Coupling (SIDC), including the Intraday Cross-Zonal Capacity Pricing methodology (IDCZCP). Based on the IDCZCP methodology, an intraday auction mechanism (IDA) shall be set up, which aims to support the pooling of liquidity in certain timeslots and to thus enable a consistent, transparent and market- based price formation. The intraday implicit auction will guarantee a non-discriminatory access to cross-border capacity for all market participants.

The Core IDA RIP worked towards an implementation of IDA in 2024, after which the operations fell under governance of Core IDA SG & Core IDA OPSCOM.

### Actual costs for 2024

The following table provides an overview of the total actual regional common costs in 2024:

Table 45

Regional costs	2024 establishing and amending costs (€)	2024 operating costs (€)
NEMOs and TSOs costs	99,880	17,071
NEMOs costs	0	53,976
TSOs costs	0	0

The joint NEMOs and TSOs costs of establishing and amending Core IDA totalling 99,880 € consist of:

Table 46

Category	Temporary activity	2024 costs (€)
PMO	YES	84,213
Convenorships	YES	15,667
<b>Total SUM</b>		<b>99,880</b>

The joint NEMOs and TSOs costs of operating Core IDA totalling 17,071 € consist of:

Table 47

Category	Temporary activity	2024 costs (€)
PMO	YES	17,071
<b>Total SUM</b>		<b>17,071</b>

The NEMOs costs of operating Core IDA totalling 53,976€ consist of:

Table 48

Category	Temporary activity	2024 costs (€)
PMO	YES	53,976
<b>Total SUM</b>		<b>53,976</b>

### Forecast for 2025

The following table provides an overview of the forecast of regional common costs for 2025:

Table 49

Regional costs	2025 establishing and amending costs (€)	2025 operating costs (€)
NEMOs and TSOs costs	83,441	19,812
NEMOs costs	0	92,531
TSOs costs	0	0

The joint NEMOs and TSOs costs of establishing and amending Core IDA totalling 83,441 € consist of:

Table 50

Category	Temporary activity	Forecast 2025 (€)
PMO	YES	72,341
Convenorships	YES	11,100
<b>Total SUM</b>		<b>83,441</b>

The joint NEMOs and TSOs costs of operating Core IDA totalling 19,812 € consist of:

Table 51

Category	Temporary activity	Forecast 2025 (€)
PMO	YES	19,812
<b>Total SUM</b>		<b>19,812</b>

The NEMOs costs of operating Core IDA totalling 92,531€ consist of:

Table 52

Category	Temporary activity	Forecast 2025 (€)
PMO	YES	92,531
<b>Total SUM</b>		<b>92,531</b>

### 3. Nordic projects

This Chapter is focused on the Nordic Flow-Based project (DA) and the Nordic 15 min MTU project (DA and ID), which do not include any operating costs. Costs of operations and other projects are captured in Chapter B7) Nordic operations.

#### Nordic Flow-Based project (DA)

This project concerns the regional costs for amending and establishing the Nordic day-ahead solutions by implementing the FB capacity calculation and associated processes.

#### Actual costs for 2024

The following table provides an overview of the total actual regional common costs in 2024:

Table 53		
Regional costs	2024 establishing and amending costs (€)	2024 operating costs (€)
NEMOs and TSOs costs	0	0
NEMOs costs	0	0
TSOs costs	1,336,657	0

The TSOs establishing and amending costs totalling 1,336,657 € consist of:

Table 54		
Details	Temporary activity	2024 costs (€)
PMO costs	YES	897,104
Other administrative costs	YES	
System development costs	YES	756,206
<b>Total SUM</b>		<b>1,336,657</b>

- The PMO costs in the above table encompass the cost of the PMO services required to facilitate the execution of all tasks to complete the objectives of the Nordic Flow-Based project. These involve secretarial, convenor, as well as expert tasks.

#### Forecast for 2025

Given that the project has gone live in October 2024, the project has been closed shortly thereafter and there is no budget for 2025.

Nordic 15 min MTU & IDA project (DA and ID)

This project concerns the regional costs for amending and establishing the Nordic day-ahead and intraday solutions by implementing the 15 min MTUs.

Actual costs for 2024

The following table provides an overview of the forecast of regional common costs for 2024:

Table 55		
Regional costs	2024 establishing and amending costs (€)	2024 operating costs (€)
NEMOs and TSOs costs	538,788	0
NEMOs costs	0	0
TSOs costs	0	0

- Here, it is pointed out that the costs are split equally between DA and ID.
- Regarding the NEMOs, please note that both EMCO and EPEX are involved in both DA and ID, whereas Nasdaq is only involved in DA.

The joint NEMOs and TSOs establishing and amending costs totalling 538,788 € consist of:

Table 56		
Details	Temporary activity	2024 costs (€)
PMO + administrative costs	YES	538,788
System development costs	YES	0
Total SUM		538,788

- The PMO costs in the above table encompass the cost of the PMO services required to facilitate the execution of all tasks to complete the objectives of the Nordic 15 min MTU & IDA project.
- The administrative costs cover the Project Place licenses for the Nordic 15 min MTU & IDA project.
- System Development costs are not shared, but handled on an individual party basis.

Forecast for 2025

The following table provides an overview of the forecast of regional common costs for 2025:

Table 57		
Regional costs	2025 establishing and amending costs (€)	2025 operating costs (€)
NEMOs and TSOs costs	619,200	0
NEMOs costs	0	0
TSOs costs	0	0

The joint NEMOs and TSOs establishing and amending costs totalling 619,200 € consist of:

Table 58		
Details	Temporary activity	Forecast 2025 (€)
PMO costs	YES	619 200
Other administrative costs	YES	0
System development costs	YES	0
Total SUM		619,200

- The PMO costs in the above table encompass the cost of the PMO services required to facilitate the execution of all tasks to complete the objectives of the Nordic 15 min MTU & IDA project
- The administrative costs cover the Project Place licenses for the Nordic 15 min MTU & IDA project
- System Development costs are not shared, but handled on an individual party basis

#### 4. IBWT

The main objective of the IBWT for Day-Ahead markets (Italian Borders Working Table) project is to coordinate operations amongst the involved parties.

The involved parties are: Austrian Power Grid AG ("APG"), ELECTRICITY SYSTEM OPERATOR EAD ("ESO"), ELES, d.o.o. ("ELES"), Croatian Transmission System Operator Plc. ("HOPS"), IPTO Independent Power Transmission Operator ("ADMIE"), RTE Réseau de transport d'électricité ("RTE"), Swissgrid ag ("Swissgrid") as observer member, TERNA S.p.A. Rete Elettrica Nazionale ("TERNA"), BSP Regional Energy Exchange LL C ("BSP") CROATIAN POWER EXCHANGE Ltd. ("CROPEX"), EPEX Spot SE ("EPEX"), Nord Pool European Market Coupling Operator AS ("Nord Pool EMCO"), EXAA Abwicklungsstelle für Energieprodukte AG ("EXAA"), Gestore dei Mercati Energetici S.p.A. ("GME"), HELLENIC ENERGY EXCHANGE S.A. ("HEEnEx"), Independent Bulgarian Energy Exchange ("IBEX")

A specific regional sharing key applies for this project.

#### 5. IBWT – IDA RIP

The IBWT IDA RIP aims at the implementation of the regional processes for the Intraday Auctions (IDA) in the IBWT region which are not in scope of the central SIDC IDA Project, mainly the IDA post-coupling process.

##### Involved parties are:

**TSOs:** Terna Rete Italia S.p.A., Austrian Power Grid AG, RTE Réseau de Transport d'Electricité, ELES, d.o.o., Electricity System Operator EAD, IPTO Independent Power Transmission Operator

**NEMOs:** BSP Energy Exchange LL C, EPEX Spot SE, Gestore dei Mercati Energetici S.p.A., European Market Coupling Operator AS, Independent Bulgarian Energy Exchange EAD, Hellenic Energy Exchange S.A..

According to the agreed sharing approach, there are no NEMO-only nor TSO-only costs. The cost is shared equally by all IBWT IDA RIP parties.

Cost for project management consists of costs for external support related to project management services provided by CGI IT Czech Republic s.r.o.

The actual 2024 costs consist purely of PMO support cost, with one exception of a one-off postal expense. There are no special deliverables prepared by PMO other than the documents supporting the meetings of IBWT IDA RIP working groups (agenda, MoM, etc.).

#### Actual costs for 2024

In 2024, no regional costs occurred for the IBWT region.

#### Forecast for 2025

No costs are foreseen for the year 2025.

#### Actual costs for 2024

The following table provides an overview of the forecast of regional common costs for 2024:

Table 59

Regional costs	2024 establishing and amending costs (€)	2024 operating costs (€)
NEMOs and TSOs costs	7,748	0
NEMOs costs	0	0
TSOs costs	0	0

The joint NEMOs and TSOs establishing and amending costs totalling 7,748 € consist of:

Table 60

Details	Temporary activity	2024 costs (€)
Costs for project management (12 parties)	Yes	7,623
Administration (12 parties)	Yes	124
<b>Total SUM</b>		<b>7,748</b>

Cost was shared between APG, ELES, ADMIE, RTE, TERNA, BSP, GME, NP EMCO, HENEX, EPEX, IBEX, ESO. Administration (Item 2) refers to one-off postage expense.

**With the go-live of IDA in June 2024 no costs are foreseen for the year 2025 and for future.**

## 6. Nordic Operations

In addition to the costs related to projects as captured in Chapter B3) Nordic projects (DA and ID), in this Chapter, an overview of the costs of operating and the costs of establishing and amending is presented.

### Actual costs for 2024

The following table provides an overview of the total actual regional common costs in 2024:

Regional costs	2024 establishing and amending costs (€)	2024 operating costs (€)
NEMOs and TSOs costs	0	115,056
NEMOs costs	0	0
TSOs costs	178,613	309,916

The joint NEMOs and TSOs operating costs totalling 115,056 € consist of:

Category	Temporary activity	2024 costs (€)
PMO costs	NO	115,056
<b>Total SUM</b>		<b>115,056</b>

- The PMO cost in the above table encompass the cost of the PMO services required to facilitate the execution of all tasks to operate the Nordic DA market (Nordic JSC, Nordic OPSCOM, and Nordic Budget Management TF).

The TSOs establishing and amending costs totalling 178,613 € consist of:

Category	Temporary activity	2024 costs (€)
PMO costs	NO	178,613
<b>Total SUM</b>		<b>178,613</b>

- The IT hosting costs in the above table encompass the cost of adapting the hosting services related to the changes needed for IDAs and Nordic FB.

The TSOs operating costs totalling 309,916 € consist of:

Category	Temporary activity	2024 costs (€)
Operational costs	No	309,916
<b>Total SUM</b>		<b>309,916</b>

- The operational costs in the above table encompass the costs of operating the joint Nordic IT systems.

### Forecast for 2025

The following table provides an overview of the forecast of regional common costs for 2024:

Regional costs	2025 establishing and amending costs (€)	2025 operating costs (€)
NEMOs and TSOs costs	0	152,000
NEMOs costs	0	0
TSOs costs	42,000	440,000

The joint NEMOs and TSOs operating costs totalling 152,000 € consist of:

Category	Temporary activity	Forecast 2025 (€)
PMO costs	NO	152,000
<b>Total SUM</b>		<b>152,000</b>

- The PMO cost in the above table encompasses the cost of the PMO services required to facilitate the execution of all tasks to operate the Nordic DA market (Nordic JSC, Nordic OPSCOM, and Nordic Budget Management TF), but with an extended scope (incl. Representation at Pan-EU level). On top of that, as of Q2 2024, IDA is in-scoped.

The joint NEMOs and TSOs operating costs totalling 42,000 € consist of:

Category	Temporary activity	Forecast 2025 (€)
PMO costs	NO	42,000
<b>Total SUM</b>		<b>42,000</b>

- The PMO cost in the above table encompass the cost of the PMO services related to adapting systems, procedures, documentation, and contracts to changes in the operations.

The joint NEMOs and TSOs operating costs totalling 440,000 € consist of:

Category	Temporary activity	Forecast 2025 (€)
PMO costs	NO	440,000
<b>Total SUM</b>		<b>440,000</b>

- The operational costs in the above table encompass the costs of operating the joint Nordic IT systems.



## 7. Baltic MNA

This project concerns the regional costs for amending and establishing the Baltic day-ahead, intraday and Intraday auction solutions to become MNA compatible. Currently, Baltic TSOs and engaged NEMOs are expecting to finish all necessary documentation and, when the additional NEMOs express their readiness to become operational in the Baltic bidding zones, aim for completion of the project and secure the Go-Live of the Baltic MNA solution.

**The involved parties of Baltic MNA project are:** Estonian, Latvian and Lithuanian TSOs and from NEMOs side Nord Pool and EPEX.

A Specific regional sharing key is used for the project. The Sharing key is based on the Baltic NRAs' guidance ("All Baltic NRAs position on Baltic TSOs' proposal for financial arrangements of the Baltic arrangements of more than one NEMO in one bidding zone") of 19 April 2019.

There are no regional costs in 2024 nor budgeted costs in 2025 for this project as project parties are currently covering all costs internally.

## 8. Baltic – IDA RIP

The Baltic DA and ID Regional Implementation Project (RIP) group was formed by TSOs and NEMOs from the Baltic region and neighboring countries to support the implementation of 15-minute MTU and Intraday Auctions (IDA) in Day-Ahead (DA) and Intraday (ID) markets.

The group's main goal is to ensure smooth coordination and integration of these changes within the Baltic CCR and across European electricity markets.

In years 2023 and 2024, no regional costs occurred for the Baltic IDA RIP and no costs are planned in year 2025.

## 9. SWE – IDA RIP

The SWE RIP aims at the implementation of the regional processes for the Intraday Auctions (IDA) in the SWE region (France, Portugal and Spain) which are not in scope of the central SIDC IDA Project, mainly the IDA post-coupling process.

**The involved parties of SWE-IDA RIP project are:** REE, REN and RTE as TSOs and from NEMOs side, OMIE, Nord Pool EMCO and EPEX.

### Actual costs for 2024

There are not only NEMO costs nor only TSO costs in year 2024 for this project, as project parties are currently covering all costs internally.

**The joint NEMOs and TSOs costs of establishing and amending totalling 2,436 € consist of:**

Table 69		
Category	Temporary activity	2024 costs (€)
PMO costs	NO	2,436
<b>Total SUM</b>		<b>2,436</b>

- In year 2024, only PMO costs occurred for the project.
- Joint PMO costs consist of the costs of the external support related to project management services provided by Indra Business Consulting, S.L.U as of 1 April 2022.
- The external support for PMO services was selected based via a contractual tender.
- A rate of 690 €/MD was used.

**With the go-live of IDA in June 2024, no additional costs are foreseen for the year 2025 and for future.**

10. Hansa

The HANSA RIP is responsible for implementing market coupling within the Hansa region. The Hansa region encompasses certain bidding zone borders between Norway, Denmark, Sweden, Poland, the Netherlands, and Germany.

Actual costs for 2024

The following table provides an overview of the total actual regional common costs in 2024:

Table 70		
Regional costs	2024 establishing and amending costs (€)	2024 operating costs (€)
NEMOs and TSOs costs	0	0
NEMOs costs	0	0
TSOs costs – joint PMO and convenor	387,370	0
TSOs costs – NRCC development	254,209	93,437
TSOs costs – TSCNET development	486,124	124,138

- Joint PMO and convenor costs describe the costs of external support related to project management services.
- The external support for PMO and convenor services was selected based via a contractual tender.
- Development costs in CCR Hansa are split between the TSOs serviced by each RCC.

Forecast for 2025

The following table provides an overview of the forecast of regional common costs for 2025:

Table 71		
Regional costs	2025 establishing and amending costs (€)	2025 operating costs (€)
NEMOs and TSOs costs	0	0
NEMOs costs	0	0
TSOs costs – joint PMO and convenor	521,069	0
TSOs costs – TSCNET	511,549	417,369
TSOs costs – NRCC	474,075	103,720

- For 2025, the operational costs reflect additionally the costs of Hansa Phase II, which will go live in December of 2025.



# Chapter C

## National costs resulting from activities of the NEMOs or NEMOs and TSOs in that Member State

TSOs, as agreed with the NRAs, report the national cost in two categories for each timeframe:

- Category A is the costs of representation in meetings and includes the time for preparation.
- Category B is the costs for national IT implementation solely related to market coupling.

TSOs would like to emphasise that as there is no common system to track the costs, the homogeneity of the numbers reported is not guaranteed.

Table 72

Member State	TSO	National costs related to SDAC (€)		National costs related to SIDC (€)	
		Category A	Category B	Category A	Category B
Austria	APG	173,249.00	0	225,192.00	70,408.00
Belgium	Elia	73,599.11	383,765.43	273,493.45	383,765.43
Bulgaria	ESO	29,814.87	0	42,028.01	0
Croatia	HOPS	36,792.02	7,680.00	67,626.00	165,760.38
Czech Republic	ČEPS	43,345.00	58,287.00	50,229.00	483,185.00
Denmark	Energinet	258,366.00	0	144,786.00	0
Estonia	Elering	0	0	0	0
Finland	Fingrid	26,025.00	0	21,352.00	0
France	RTE	40,000.00	471,000.00	180,000.00	475,000.00
Germany	Baltic Cable	45,080.00	40,102.00	0	0
	50 Hertz	395,893.00	6,182.00	197,503.00	71,616.00
	Amprion				
	TTG	74,893.00	0	99,584.00	91,000.00
	TransnetBW	77,882.00	0	35,480.00	0
Greece	ADMIE				
Hungary	MAVIR	23,749.00	145,662.00	21,635.00	444,498.00
Ireland	EirGrid	0	0	0	0
Italy	Terna	48,505.00	9,442.00	140,401.00	34,297.00
Latvia	AST	11,665.10	24,253.97	66,859.40	53,984.63
Lithuania	Litgrid	51,000.00	121,745.00	51,000.00	124,804.00
Luxembourg	CREOS	25,008.83	0	17,838.63	0
Netherlands	TTN	30,000.00	73,000.00	132,000.00	659,000.00
Norway	Statnett	230,000.00	35,000.00	260,000.00	40,000.00
Poland	PSE	100,613.20	56,354.20	89,224.20	210,356.00
Portugal	REN	17,351.81	181,941.83	30,631.37	215,167.89
Romania	Transelectrica	0	5,000.00	0	15,000.00
Slovakia	SEPS	78,189.00	30,000.00	98,684.00	204,120.00
Slovenia	ELES	101,987.00	0	111,788.00	0
Spain	REE	28,238.24	0	47,111.31	0
Sweden	Svenska kraftnät	273,028.00	5,850.00	356,014.00	254,095.00

# Chapter D

## Contributions made to NEMO costs by TSOs in accordance with Article 76(2)

Table 73

Member State	TSO	Contributions made to NEMO costs by TSOs in accordance with Article 76 (2) for the Day-Ahead timeframe (€)	Contributions made to NEMO costs by TSOs in accordance with Article 76 (2) for the Intraday timeframe (€)
Austria	APG	49,850.00	103,141.00
Belgium	Elia	21,138.16	22,295.88
Bulgaria	ESO		
Croatia	HOPS	258,411.00	
Czech Republic	ČEPS		
Denmark	Energinet		
Estonia	Elering		
Finland	Fingrid	0	0
France	RTE	550,000.00	750,000.00
Germany	Baltic Cable	0	0
	50 Hertz	63,443.00	47,075.00
	Amprion	34,808.55	63,719.92
	TTG	44,700.00	59,436.00
	TransnetBW	33,695.00	35,143.00
Greece	ADMIE	0	0
Hungary	MAVIR	2,255,871.70	
Ireland	EirGrid	0	0
Italy	Terna	0	0
Latvia	AST	17,966.39	36,775.72
Lithuania	Litgrid	73,784.00	
Luxembourg	CREOS	880.00	1,011.00
Netherlands	TTN		
Norway	Statnett	0	0
Poland	PSE	98,214.60	204,436.90
Portugal	REN		
Romania	Transelectrica		
Slovakia	SEPS		
Slovenia	ELES	1,026,456.00	544,643.00
Spain	REE	0	0
Sweden	Svenska kraftnät	0	0

# Glossary

<b>4M MC</b>	4M Market Coupling between Czech Republic, Slovakia, Hungary, Romania	<b>DC</b>	Direct Current
<b>50Hertz</b>	50Hertz Transmission GmbH	<b>DE</b>	Germany
<b>ACER</b>	Agency for the Cooperation of Energy Regulators	<b>DK</b>	Denmark
<b>AL</b>	Albania	<b>EE</b>	Estonia
<b>ANCA</b>	All NEMO Cooperation Agreement	<b>ECP</b>	Energy Communication Platform. This is a private communication network; the platform provides message delivery capabilities comprising message routing and ensures the reliable delivery of messages between ECP communication endpoints.
<b>ANIDOA</b>	All Nemos Intra-Day Operational Agreement	<b>Elia</b>	Elia System Operator SA
<b>ANDOA</b>	All NEMOs Day-Ahead operational agreement	<b>ESO</b>	Electroenergien Sistemen Operator EAD
<b>APG</b>	Austrian Power Grid AG	<b>EMS</b>	Akcionarsko društvo Elektromreža Srbije
<b>AS</b>	XBID Accession Stream	<b>ES</b>	Spain
<b>ASR</b>	Additional Service Request	<b>EU</b>	European Union
<b>AST</b>	AS Augstsprieguma tīkls	<b>FB</b>	Flow-Based
<b>AT</b>	Austria	<b>FI</b>	Finland
<b>BA</b>	Bosnia and Herzegovina	<b>FR</b>	France
<b>BE</b>	Belgium	<b>FSFO</b>	Functional Support Facility Operational
<b>BG</b>	Bulgaria	<b>GB</b>	Great Britain
<b>BMTF</b>	Budget Management Task Force	<b>GCT</b>	Gate Closure Time
<b>CA</b>	Cooperation Agreement	<b>GOT</b>	Gate Opening Time
<b>CACM</b>	Capacity Allocation and Congestion Management	<b>GOWG</b>	Governance WG
<b>CCP</b>	Central Counterparty	<b>GR</b>	Greece
<b>CCR</b>	Capacity Calculation Region	<b>HOPS</b>	Croatian Transmission System Operator Plc.
<b>CGES</b>	Crnogorski elektroprenosni sistem AD	<b>HR</b>	Croatia
<b>CH</b>	Switzerland	<b>HU</b>	Hungary
<b>CIP</b>	CWE NEMOs Interface Platform	<b>HVDC</b>	High Voltage Direct Current
<b>CMM</b>	Capacity Management Module	<b>IAT</b>	Integration Acceptance Test
<b>COMSG</b>	Communication Support Group	<b>IC</b>	Incident Committee
<b>CPLEX</b>	IBM High-performance mathematical programming solver for linear programming, mixed-integer programming and quadratic programming	<b>ICG</b>	Implementation Coordination Group
<b>CWE</b>	Central Western Europe	<b>ICP</b>	Interim Coupling Project (coupling 4MMC and SDAC area on NTC based approach)
<b>CZ</b>	Czech Republic	<b>ICT</b>	Integrated Coordination Team
<b>DAOA</b>	Day-Ahead Operational Agreement	<b>IDA</b>	Intraday Auction
<b>DBAG</b>	Deutsche Börse AG		



<b>IDOA</b>	Intraday Operational Agreement	<b>MRC</b>	Multi Regional Coupling
<b>IDSC</b>	Intraday Steering Committee	<b>MSD</b>	Market and System Design
<b>IFA</b>	Interconnexion France-Angleterre	<b>MTU</b>	Market Time Unit
<b>IE</b>	Ireland	<b>NC</b>	NEMO Committee
<b>INCA</b>	interim NEMO cooperation Agreement	<b>NEMO</b>	Nominated Electricity Market Operator or Power Exchange
<b>IPTO</b>	Independent Power Transmission Operator S.A.	<b>NL</b>	Netherlands
<b>I-SEM</b>	Integrated Single Electricity Market	<b>NO</b>	Norway
<b>IT</b>	Italy	<b>NOS</b>	BiH Nezavisni operator sustava u Bosni i Hercegovini
<b>JAO</b>	Joint Allocation Office	<b>NRA</b>	National Regulatory Authority
<b>JLG</b>	Joint Legal Group	<b>NTC</b>	Net Transmission Capacity
<b>JSC</b>	Joint Steering Committee	<b>NWE</b>	North Western Europe
<b>KOSTT</b>	Kosovo Electricity Transmission System and Market Operator	<b>OPSCOM</b>	Operational Committee
<b>LIP</b>	Local Implementation Project	<b>OST</b>	OST sh.a – Albanian Transmission System Operator
<b>LTA</b>	Long Term Allocation	<b>OTF</b>	Operational Task Force
<b>LTC</b>	LIP Testing Coordinator	<b>PCR</b>	Price Coupling of Regions
<b>LTF</b>	Legal Task Force	<b>PL</b>	Poland
<b>LU</b>	Luxembourg	<b>PMB</b>	PCR Matcher and Broker IT system
<b>LWG</b>	Legal Working Group	<b>PMI</b>	Public Message Interface
<b>MC</b>	Market Coupling	<b>PMI LAT</b>	Public Message Interface Log Analysis tool
<b>MAVIR</b>	Magyar Villamosenergia-ipari Átviteli Rendszerirányító Zártkörűen Működő Részvénytársaság	<b>PMO</b>	Project Management Officer
<b>MCO</b>	Market Coupling Operator	<b>PSE</b>	Polskie Sieci Elektroenergetyczne
<b>ME</b>	Montenegro	<b>PT</b>	Portugal
<b>MESC</b>	Market Stakeholder Committee	<b>PUN</b>	National Single Price
<b>MEPSO</b>	Macedonian Transmission System Operator AD	<b>PWG</b>	Procedural WG
<b>MK</b>	Macedonia	<b>QA&amp;RM</b>	Quality Assurance & Release Management
<b>MNA</b>	Multiple NEMOs Arrangements	<b>R&amp;D</b>	Research and Development
<b>MPLS</b>	Multi-Protocol Label Switching. MPLS is a technology whose concept is based on the transmission of IP data via ATM (Asynchronous Transfer Mode). With MPLS, complex meshed virtual connections (VC) for individual virtual private networks (VPN) can be bypassed and thousands of VPNs built on existing technology.	<b>RCB</b>	Release Control Board
		<b>REE</b>	Red Eléctrica de España S.A.U.
		<b>REN</b>	Rede Eléctrica Nacional, S.A.
		<b>RfO</b>	Request for Offer
		<b>RO</b>	Romania

<b>RS</b>	Serbia
<b>RTE</b>	Réseau de Transport d'Electricité
<b>SARs</b>	Shadow Allocation Rules
<b>SDAC</b>	Single Day Ahead Coupling
<b>SE</b>	Sweden
<b>SEM</b>	Single Electricity Market (covering the Republic of Ireland and Northern Ireland)
<b>SF</b>	Simulation Facility
<b>SG</b>	Support Group
<b>SI</b>	Slovenia
<b>SIDC</b>	Single Intraday Coupling
<b>SEE</b>	South-East Europe
<b>SEPS</b>	Slovenská elektrizačná prenosová sústava, a.s.
<b>SK</b>	Slovakia
<b>SLA</b>	Service Level Agreement
<b>SLA KPI</b>	Service Level Agreement Key Performance Indicator
<b>SM</b>	Shipping Module
<b>SOB</b>	Shared Order Book
<b>SONI</b>	System Operator for Northern Ireland Ltd
<b>SWE</b>	South Western Europe

<b>TCDA</b>	TSO Cooperation Operational Agreement
<b>TCG</b>	Trilateral Coordination Group
<b>TCID</b>	TSO Co-operation Agreement for Single Intraday Coupling
<b>TCOA</b>	TSO Co-operation Agreement for Day-ahead Coupling
<b>Terna</b>	Terna – Rete Elettrica Nazionale SpA
<b>TF</b>	Task Force
<b>TSO</b>	Transmission System Operator
<b>TWG</b>	Technical WG
<b>UAT</b>	User Acceptance Tests
<b>UK</b>	United Kingdom
<b>WG</b>	Working Group
<b>XBID</b>	Cross-Border Intraday, a technical solution supporting SIDC implementation
<b>XML</b>	Extensible Markup Language (file type)
<b>XK</b>	Kosovo
<b>XTG</b>	XBID Testing Group

The terms used in this document have the meaning of the definitions included in Article 2 of the CACM regulation.



# Annex

## Sharing keys

### 1.1 The following sharing key was used for the sharing of all TSO and NEMO costs for establishing and amending the SDAC in 2024

Table 74

Member State	Parties	CONCATENATE	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 DA (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Shares per Party used for the costs of 2024\
Austria	APG	AustriaAPG		0		50.000 %	1.221 %
Austria	EPEX	AustriaEPEX		13,364		25.754 %	0.629 %
Austria	EXAA	AustriaEXAA		8,455		18.335 %	0.448 %
Austria	EMCO	AustriaEMCO		235		5.911 %	0.144 %
Austria			66,141	22,054	2.442%	100.000 %	2.442 %
Belgium	ELIA	BelgiumELIA		0		50.000 %	1.344 %
Belgium	EPEX	BelgiumEPEX		13,510		32.224 %	0.866 %
Belgium	EMCO	BelgiumEMCO		6,340		17.776 %	0.478 %
Belgium			78,129	19,850	2.689%	100.000 %	2.689 %
Bulgaria	ESO	BulgariaESO		0		50.000 %	0.864 %
Bulgaria	IBEX	BulgariaIBEX		27,662		50.000 %	0.864 %
Bulgaria			32,028	27,662	1.728%	100.000 %	1.728 %
Croatia	HOPS	CroatiaHOPS		0		50.000 %	0.473 %
Croatia	CROPEX	CroatiaCROPEX		4,842		50.000 %	0.473 %
Croatia			16,569	4,842	0.946%	100.000 %	0.946 %
Czech Republic	ČEPS	Czech RepublicČEPS		0		50.000 %	1.134 %
Czech Republic	OTE	Czech RepublicOTE		20,719		50.000 %	1.134 %
Czech Republic			59,889	20,719	2.268%	100.000 %	2.268 %
Denmark	Energinet	DenmarkEnerginet		0		50.000 %	0.867 %
Denmark	EMCO	DenmarkEMCO		20,052		32.487 %	0.563 %
Denmark	EPEX	DenmarkEPEX		7,621		17.513 %	0.304 %
Denmark	Nasdaq	DenmarkNasdaq		0		0.000 %	0.000 %
Denmark			32,264	27,672	1.734%	100.000 %	1.734 %

Table 74

Member State	Parties	CONCATENATE	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 DA (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Shares per Party used for the costs of 2024\
Estonia	Elering	EstoniaElering		0		50.000 %	0.370 %
Estonia	EMCO	EstoniaEMCO		5,680		41.667 %	0.308 %
Estonia	EPEX	EstoniaEPEX		0		8.333 %	0.062 %
Estonia			7,308	5,680	0.740 %	100.000 %	0.740 %
Finland	Fingrid	FinlandFingrid		0		49.500 %	1.647 %
Finland	Kraftnät Åland	FinlandKraftnät Åland		0		0.500 %	0.017 %
Finland	EMCO	FinlandEMCO		53,430		40.674 %	1.353 %
Finland	EPEX	FinlandEPEX		1,641		9.326 %	0.310 %
Finland	Nasdaq	FinlandNasdaq		0		0.000 %	0.000 %
Finland			78,217	55,071	3.326 %	100.000 %	3.326 %
France	RTE	FranceRTE		0		50.000 %	6.216 %
France	EPEX	FranceEPEX		93,929		25.000 %	3.108 %
France	EMCO	FranceEMCO		5,815		25.000 %	3.108 %
France	Nasdaq	FranceNasdaq		0		0.000 %	0.000 %
France			425,507	99,744	12.433 %	100.000 %	12.433 %
Germany	50Hertz	Germany50Hertz		0		22.057 %	3.647 %
Germany	Amprion	GermanyAmprion		0		31.640 %	5.232 %
Germany	TenneT DE	GermanyTenneT DE		0		28.037 %	4.636 %
Germany	Transnet	GermanyTransnet		0		17.266 %	2.855 %
Germany	Baltic Cable	GermanyBaltic Cable		0		1.000 %	0.165 %
Germany	EPEX	GermanyEPEX		204,419		0.000 %	0.000 %
Germany	EMCO	GermanyEMCO		31,730		0.000 %	0.000 %
Germany	EXAA	GermanyEXAA		6,367		0.000 %	0.000 %
Germany	Nasdaq	GermanyNasdaq		0		0.000 %	0.000 %
Germany			489,330	242,516	16.535 %	100.000 %	16.535 %
Greece	ADMIE	GreeceADMIE		0		50.000 %	1.297 %
Greece	Henex	GreeceHenex		52,599		50.000 %	1.297 %
Greece			49,475	52,599	2.595 %	100.000 %	2.595 %
Hungary	Mavir	HungaryMavir		0		50.000 %	0.925 %
Hungary	HUPX	HungaryHUPX		20,685		50.000 %	0.925 %
Hungary			42,413	20,685	1.850 %	100.000 %	1.850 %
Ireland	EirGrid (TSO)	IrelandEirGrid (TSO)		0		50.000 %	0.904 %
Ireland	EirGrid (NEMO)	IrelandEirGrid (NEMO)		33,639		50.000 %	0.904 %
Ireland	EMCO	IrelandEMCO		0		0.000 %	0.000 %
Ireland			30,852	33,639	1.807 %	100.000 %	1.807 %

Table 74

Member State	Parties	CONCATENATE	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 DA (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Shares per Party used for the costs of 2024\
Italy	Terna	ItalyTerna		0		50.000 %	5.397 %
Italy	GME	ItalyGME		180,697		50.000 %	5.397 %
Italy			295,840	180,697	10.795 %	100.000 %	10.795 %
Latvia	AST	LatviaAST		0		50.000 %	0.365 %
Latvia	EMCO	LatviaEMCO		5,927		41.667 %	0.304 %
Latvia	EPEX	LatviaEPEX		0		8.333 %	0.061 %
Latvia			6,718	5,927	0.730 %	100.000 %	0.730 %
Lithuania	Litgrid	LithuaniaLitgrid		0		50.000 %	0.425 %
Lithuania	EMCO	LithuaniaEMCO		6,329		41.667 %	0.355 %
Lithuania	EPEX	LithuaniaEPEX		0		8.333 %	0.071 %
Lithuania			11,452	6,329	0.851 %	100.000 %	0.851 %
Luxembourg	CREOS	LuxembourgCREOS		0		100.000 %	0.610 %
Luxembourg	EPEX	LuxembourgEPEX		0		0.000 %	0.000 %
Luxembourg	EMCO	LuxembourgEMCO		0		0.000 %	0.000 %
Luxembourg	Nasdaq	LuxembourgNasdaq		0		0.000 %	0.000 %
Luxembourg			6,143	0	0.610 %	100.000 %	0.610 %
Netherlands	TenneT BV	NetherlandsTenneT BV		0		50.000 %	1.921 %
Netherlands	EPEX	NetherlandsEPEX		30,574		35.474 %	1.363 %
Netherlands	EMCO	NetherlandsEMCO		12,520		14.526 %	0.558 %
Netherlands			108,848	43,094	3.842 %	100.000 %	3.842 %
Poland	PSE	PolandPSE		0		50.000 %	2.150 %
Poland	TGE	PolandTGE		5,917		31.543 %	1.356 %
Poland	EPEX	PolandEPEX		1,227		10.946 %	0.471 %
Poland	EMCO	PolandEMCO		445		7.510 %	0.323 %
Poland			154,823	7,589	4.300 %	100.000 %	4.300 %
Portugal	REN	PortugalREN		0		50.000 %	1.309 %
Portugal	OMIE	PortugalOMIE		53,901		50.000 %	1.309 %
Portugal			49,470	53,901	2.618 %	100.000 %	2.618 %
Romania	Transelectrica	RomaniaTranselectrica		0		50.000 %	0.896 %
Romania	OPCOM	RomaniaOPCOM		13,475		41.667 %	0.746 %
Romania	BRM	RomaniaBRM		0		8.333 %	0.149 %
Romania			45,407	13,475	1.791 %	100.000 %	1.791 %
Slovakia	SEPS	SlovakiaSEPS		0		50.000 %	0.518 %
Slovakia	OKTE	SlovakiaOKTE		9,409		50.000 %	0.518 %
Slovakia			23,969	0	1.036 %	100.000 %	1.036 %

Table 74

Member State	Parties	CONCATENATE	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 DA (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Shares per Party used for the costs of 2024\
Slovenia	ELES	SloveniaELES		0		50.000 %	0.412 %
Slovenia	BSP	SloveniaBSP		2,621		50.000 %	0.412 %
Slovenia			13,126	2,621	0.824 %	100.000 %	0.824 %
Spain	REE	SpainREE		0		50.000 %	4.432 %
Spain	OMIE	SpainOMIE		158,450		50.000 %	4.432 %
Spain			231,847	158,450	8.864 %	100.000 %	8.864 %
Sweden	Affärsverket svenska kraftnät	SwedenAffärsverket svenska kraftnät		0		50.000 %	2.904 %
Sweden	EMCO	SwedenEMCO		118,292		38.748 %	2.251 %
Sweden	EPEX	SwedenEPEX		11,350		11.252 %	0.654 %
Sweden	Nasdaq	SwedenNasdaq		0		0.000 %	0.000 %
Sweden			125,754	129,641	5.808 %	100.000 %	5.808 %
Northern Ireland	EMCO	Northern IrelandEMCO		0		0.000 %	0.000 %
Northern Ireland	SONI (TSO)	Northern IrelandSONI (TSO)		0		100.000 %	0.818 %
Northern Ireland	SONI (NEMO)	Northern IrelandSONI (NEMO)		7,750		0.000 %	0.000 %
Northern Ireland			9,000	7,750	0.818 %	100.000 %	0.818 %
Norway	Statnett	NorwayStatnett		0		50.000 %	3.010 %
Norway	EPEX	NorwayEPEX		4,789		9.450 %	0.569 %
Norway	Nasdaq	NorwayNasdaq		0		0.000 %	0.000 %
Norway	EMCO	NorwayEMCO		138,103		40.550 %	2.441 %
Norway			124,573	142,891	6.019 %	100.000 %	6.019 %
<b>Grand Total</b>			<b>2,615,091</b>	<b>1,385,100</b>	<b>100.000 %</b>		<b>100.000 %</b>

## 1.2 The following sharing key was used for the sharing of all TSO and NEMO costs for operating the SDAC in 2024:

Table 75

Member State	Parties	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 DA (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Share per party as used for the costs of 2024 from 01.01.24 to 15.10.2024	Share within MS	Share per party as used for the costs of 2024 from 16.10.2024 to 31.12.2024
Austria	APG		0		50.000 %	1.232 %	50.000 %	1.232 %
Austria	EPEX		13,364		25.754 %	0.634 %	25.754 %	0.634 %
Austria	EXAA		8,455		18.335 %	0.452 %	18.335 %	0.452 %
Austria	EMCO		235		5.911 %	0.146 %	5.911 %	0.146 %
Austria		66,141	22,054	2.463 %	100.000 %	2.463 %	100.000 %	2.463 %
Belgium	ELIA		0		50.000 %	1.355 %	50.000 %	1.355 %
Belgium	EPEX		13,510		32.224 %	0.874 %	32.224 %	0.874 %
Belgium	EMCO		6,340		17.776 %	0.482 %	17.776 %	0.482 %
Belgium		78,129	19,850	2.711 %	100.000 %	2.711 %	100.000 %	2.711 %
Bulgaria	ESO		0		50.000 %	0.874 %	50.000 %	0.874 %
Bulgaria	IBEX		27,662		50.000 %	0.874 %	50.000 %	0.874 %
Bulgaria		32,028	27,662	1.747 %	100.000 %	1.747 %	100.000 %	1.747 %
Croatia	HOPS		0		50.000 %	0.483 %	50.000 %	0.483 %
Croatia	CROPEX		4,842		50.000 %	0.483 %	50.000 %	0.483 %
Croatia		16,569	4,842	0.965 %	100.000 %	0.965 %	100.000 %	0.965 %
Czech Republic	ČEPS		0		50.000 %	1.145 %	50.000 %	1.145 %
Czech Republic	OTE		20,719		50.000 %	1.145 %	50.000 %	1.145 %
Czech Republic		59,889	20,719	2.289 %	100.000 %	2.289 %	100.000 %	2.289 %
Denmark	Energinet		0		50.000 %	0.877 %	50.000 %	0.877 %
Denmark	EMCO		20,052		32.487 %	0.570 %	32.487 %	0.570 %
Denmark	EPEX		7,621		17.513 %	0.307 %	17.513 %	0.307 %
Denmark	Nasdaq		0		0.000 %	0.000 %	0.000 %	0.000 %
Denmark		32,264	27,672	1.753 %	100.000 %	1.753 %	100.000 %	1.753 %
Estonia	Elering		0		50.000 %	0.379 %	50.000 %	0.379 %
Estonia	EMCO		5,680		41.667 %	0.316 %	41.667 %	0.316 %
Estonia	EPEX		0		8.333 %	0.063 %	8.333 %	0.063 %
Estonia		7,308	5,680	0.758 %	100.000 %	0.758 %	100.000 %	0.758 %
Finland	Fingrid		0		50.000 %	1.674 %	50.000 %	1.674 %
Finland	Kraftnät Åland		0		0.000 %	0.000 %	0.000 %	0.000 %
Finland	EMCO		53,430		40.674 %	1.362 %	40.674 %	1.362 %
Finland	EPEX		1,641		9.326 %	0.312 %	9.326 %	0.312 %
Finland	Nasdaq		0		0.000 %	0.000 %	0.000 %	0.000 %
Finland		78,217	55,071	3.349 %	100.000 %	3.349 %	100.000 %	3.349 %

Table 75

Member State	Parties	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 DA (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Share per party as used for the costs of 2024 from 01.01.24 to 15.10.2024	Share within MS	Share per party as used for the costs of 2024 from 16.10.2024 to 31.12.2024
France	RTE		0		50.000 %	6.237 %	50.000 %	6.237 %
France	EPEX		93,929		47.085 %	5.874 %	47.085 %	5.874 %
France	EMCO		5,815		2.915 %	0.364 %	2.915 %	0.364 %
France	Nasdaq		0		0.000 %	0.000 %	0.000 %	0.000 %
France		425,507	99,744	12.475%	100.000 %	12.475 %	100.000 %	12.475 %
Germany	50Hertz		0		22.057 %	3.657 %	22.057 %	3.657 %
Germany	Amprion		0		31.640 %	5.246 %	31.640 %	5.246 %
Germany	TenneT DE		0		28.037 %	4.649 %	28.037 %	4.649 %
Germany	Transnet		0		17.266 %	2.863 %	17.266 %	2.863 %
Germany	Baltic Cable		0		1.000 %	0.166 %	1.000 %	0.166 %
Germany	EPEX		204,419		0.000 %	0.000 %	0.000 %	0.000 %
Germany	EMCO		31,730		0.000 %	0.000 %	0.000 %	0.000 %
Germany	EXAA		6,367		0.000 %	0.000 %	0.000 %	0.000 %
Germany	Nasdaq		0		0.000 %	0.000 %	0.000 %	0.000 %
Germany		489,330	242,516	16.580%	100.000 %	16.580 %	100.000 %	16.580 %
Greece	ADMIE		0		50.000 %	1.308 %	50.000 %	1.308 %
Greece	Henex		52,599		50.000 %	1.308 %	50.000 %	1.308 %
Greece		49,475	52,599	2.615%	100.000 %	2.615 %	100.000 %	2.615 %
Hungary	Mavir		0		50.000 %	0.935 %	50.000 %	0.935 %
Hungary	HUPX		20,685		50.000 %	0.935 %	50.000 %	0.935 %
Hungary		42,413	20,685	1.870%	100.000 %	1.870 %	100.000 %	1.870 %
Ireland	EirGrid (TSO)		0		50.000 %	0.914 %	50.000 %	0.914 %
Ireland	EirGrid (NEMO)		33,639		50.000 %	0.914 %	50.000 %	0.914 %
Ireland	EMCO		0		0.000 %	0.000 %	0.000 %	0.000 %
Ireland		30,852	33,639	1.827%	100.000 %	1.827 %	100.000 %	1.827 %
Italy	Terna		0		50.000 %	5.415 %	50.000 %	5.415 %
Italy	GME		180,697		50.000 %	5.415 %	50.000 %	5.415 %
Italy		295,840	180,697	10.829%	100.000 %	10.829 %	100.000 %	10.829 %
Latvia	AST		0		50.000 %	0.374 %	50.000 %	0.374 %
Latvia	EMCO		5,927		41.667 %	0.312 %	41.667 %	0.312 %
Latvia	EPEX		0		8.333 %	0.062 %	8.333 %	0.062 %
Latvia		6,718	5,927	0.749 %	100.000 %	0.749 %	100.000 %	0.749 %

Table 75

Member State	Parties	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 DA (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Share per party as used for the costs of 2024 from 01.01.24 to 15.10.2024	Share within MS	Share per party as used for the costs of 2024 from 16.10.2024 to 31.12.2024
Lithuania	Litgrid		0		50.000 %	0.435 %	50.000 %	0.435 %
Lithuania	EMCO		6,329		41.667 %	0.362 %	41.667 %	0.362 %
Lithuania	EPEX		0		8.333 %	0.072 %	8.333 %	0.072 %
Lithuania		11,452	6,329	0.869 %	100.000 %	0.869 %	100.000 %	0.869 %
Luxembourg	CREOS							
Luxembourg	EPEX							
Luxembourg	EMCO							
Luxembourg	Nasdaq							
Luxembourg								
Netherlands	TenneT BV		0		50.000 %	1.933 %	50.000 %	1.933 %
Netherlands	EPEX		30,574		35.474 %	1.371 %	35.474 %	1.371 %
Netherlands	EMCO		12,520		14.526 %	0.562 %	14.526 %	0.562 %
Netherlands		108,848	43,094	3.866 %	100.000 %	3.866 %	100.000 %	3.866 %
Poland	PSE		0		50.000 %	2.163 %	50.000 %	2.163 %
Poland	TGE		5,917		31.543 %	1.365 %	31.543 %	1.365 %
Poland	EPEX		1,227		10.946 %	0.474 %	10.946 %	0.474 %
Poland	EMCO		445		7.510 %	0.325 %	7.510 %	0.325 %
Poland		154,823	7,589	4.327 %	100.000 %	4.327 %	100.000 %	4.327 %
Portugal	REN		0		50.000 %	1.319 %	50.000 %	1.319 %
Portugal	OMIE		53,901		50.000 %	1.319 %	50.000 %	1.319 %
Portugal		49,470	53,901	2.639 %	100.000 %	2.639 %	100.000 %	2.639 %
Romania	Transelectrica		0		50.000 %	0.906 %	50.000 %	0.906 %
Romania	OPCOM		13,475		50.000 %	0.906 %	41.667 %	0.755 %
Romania	BRM		0		0.000 %	0.000 %	8.333 %	0.151 %
Romania		45,407	13,475	1.812 %	100.000 %	1.812 %	91.667 %	1.661 %
Slovakia	SEPS		0		50.000 %	0.527 %	50.000 %	0.527 %
Slovakia	OKTE		9,409		50.000 %	0.527 %	50.000 %	0.527 %
Slovakia		23,969	0	1.055 %	100.000 %	1.055 %	100.000 %	1.055 %
Slovenia	ELES		0		50.000 %	0.421 %	50.000 %	0.421 %
Slovenia	BSP		2,621		50.000 %	0.421 %	50.000 %	0.421 %
Slovenia		13,126	2,621	0.843 %	100.000 %	0.843 %	100.000 %	0.843 %

Table 75

Member State	Parties	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 DA (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Share per party as used for the costs of 2024 from 01.01.24 to 15.10.2024	Share within MS	Share per party as used for the costs of 2024 from 16.10.2024 to 31.12.2024
Spain	REE		0		50.000 %	4.447 %	50.000 %	4.447 %
Spain	OMIE		158,450		50.000 %	4.447 %	50.000 %	4.447 %
Spain			158,450	8.895 %	100.000 %	8.895 %	100.000 %	8.895 %
Sweden	Affärsverket svenska kraftnät		0		50.000 %	2.917 %	50.000 %	2.917 %
Sweden	EMCO		118,292		38.748 %	2.260 %	38.748 %	2.260 %
Sweden	EPEX		11,350		11.252 %	0.656 %	11.252 %	0.656 %
Sweden	Nasdaq		0		0.000 %	0.000 %	0.000 %	0.000 %
Sweden		125,754	129,641	5.833 %	100.000 %	5.833 %	100.000 %	5.833 %
Northern Ireland	EMCO		0		0.000 %	0.000 %	0.000 %	0.000 %
Northern Ireland	SONI (TSO)		0		100.000 %	0.836 %	100.000 %	0.836 %
Northern Ireland	SONI (NEMO)		7,750		0.000 %	0.000 %	0.000 %	0.000 %
Northern Ireland		9,000	7,750	0.836 %	100.000 %	0.836 %	100.000 %	0.836 %
Norway	Statnett		0		50.000 %	3.022 %	50.000 %	3.022 %
Norway	EPEX		4,789		9.450 %	0.571 %	9.450 %	0.571 %
Norway	Nasdaq		0		0.000 %	0.000 %	0.000 %	0.000 %
Norway	EMCO		138,103		40.550 %	2.451 %	40.550 %	2.451 %
Norway		124,573	142,891	6.044 %	100.000 %	6.044 %	100.000 %	6.044 %
<b>Grand Total</b>		<b>2,608,948</b>	<b>1,385,100</b>	<b>100.00 %</b>		<b>100.000 %</b>		<b>100.000 %</b>



### 1.3 The following sharing key was used for the sharing of all NEMOs costs of establishing and amending the SDAC in 2024:

Table 76

MS	Final consumption in 2022 according to Report nrg_cb_e (26/02/2024 23:00) in GWh	Entity	Traded volume 2023 DA (GWh) to be used for sharing of SDAC costs in 2024	MS share to be used for sharing of SDAC costs in 2024 – establishing and amending	NEMO share within MS to be used for sharing of SDAC costs in 2024 – establishing and amending	CACM Share – SDAC to be used for sharing of SDAC costs in 2024 – establishing and amending
Austria	66,141,26	EPEX	13,364.00	2.4418 %	51.5089 %	1.2577 %
		EXAA	8,455.00		36.6696 %	0.8954 %
		NP EMCO	235.00		11.8215 %	0.2887 %
Belgium	78,129,30	EPEX	13,509.92	2.6885 %	64.4483 %	1.7327 %
		NP EMCO	6,340.00		35.5517 %	0.9558 %
Bulgaria	32,027,82	IBEX	27,662.35	1.7277 %	100.0000 %	1.7277 %
Croatia	16,569,00	CROPEX	4,842.37	0.9464 %	100.0000 %	0.9464 %
Czechia	59,888,76	OTE	20,719.10	2.2683 %	100.0000 %	2.2683 %
Denmark	32,263,95	NP EMCO	20,051.55	1.7335 %	64.9737 %	1.1263 %
		EPEX	7,620.81		35.0263 %	0.6072 %
		NASDAQ	N/A		0.0000 %	0.0000 %
Estonia	7,307,76	NP EMCO	5,680.00	0.7401 %	83.3333 %	0.6168 %
		EPEX	0,00		16.6667 %	0.1234 %
Finland	78,217,00	NP EMCO	53,430.00	3.3263 %	81.3472 %	2.7059 %
		EPEX	1,640.64		18.6528 %	0.6204 %
		NASDAQ	N/A		0.0000 %	0.0000 %
France	425,506,61	EPEX	93,929.28	12.4328 %	50.0000 %	6.2164 %
		NASDAQ	N/A		0.0000 %	0.0000 %
		NP EMCO	5,815.00		50.0000 %	6.2164 %
Germany	489,330,40	EPEX	204,419.49	16.5351 %	33.3333 %	5.5117 %
		NP EMCO	31,730.00		33.3333 %	5.5117 %
		NASDAQ	N/A		0.0000 %	0.0000 %
		EXAA	6,367.00		33.3333 %	5.5117 %
Greece	49,475,13	HENEX	52,598.81	2.5948 %	100.0000 %	2.5948 %
Hungary	42,413,00	HUPX	20,685.01	1.8500 %	100.0000 %	1.8500 %
Ireland	30,852,15	EirGRID	33,638.59	1.8075 %	100.0000 %	1.8075 %
		NP EMCO	0.00		0.0000 %	0.0000 %
Italy	295,840,01	GME	180,697.42	10.7949 %	100.0000 %	10.7949 %
Latvia	6,717,58	NP EMCO	5,926.95	0.7305 %	83.3333 %	0.6087 %
		EPEX	0.00		16.6667 %	0.1217 %
Lithuania	11,451,80	NP EMCO	6,328.90	0.8509 %	83.3333 %	0.7091 %
		EPEX	0.00		16.6667 %	0.1418 %
Luxembourg	6,143,15	EPEX	0.00	0.6098 %	50.0000 %	0.3049 %
		NASDAQ	N/A		0.0000 %	0.0000 %
		NP EMCO	0.00		50.0000 %	0.3049 %

Table 76

MS	Final consumption in 2022 according to Report nrg_cb_e (26/02/2024 23:00) in GWh	Entity	Traded volume 2023 DA (GWh) to be used for sharing of SDAC costs in 2024	MS share to be used for sharing of SDAC costs in 2024 – establishing and amending	NEMO share within MS to be used for sharing of SDAC costs in 2024 – establishing and amending	CACM Share – SDAC to be used for sharing of SDAC costs in 2024 – establishing and amending
Netherlands	108,847.66	EPEX	30,574.08	3.8422 %	70.9473 %	2.7259 %
		NP EMCO	12,520.00		29.0527 %	1.1163 %
Poland	154,822.90	TGE	5,916.89	4.3002 %	63.0869 %	2.7128 %
		EPEX	1,227.40		21.8930 %	0.9414 %
		NP EMCO	445.00		15.0201 %	0.6459 %
Portugal	49,470.23	OMIE	53,901.20	2.6182 %	100.0000 %	2.6182 %
Romania	45,407.27	OPCOM	13,475.03	1.7914 %	83.3333 %	1.4928 %
		BRM	0.00		16.6667 %	0.2986 %
Slovakia	23,969.00	OKTE	9,409.53	1.0358 %	100.0000 %	1.0358 %
Slovenia	13,125.50	BSP	2,620.62	0.8240 %	100.0000 %	0.8240 %
Spain	231,847.00	OMIE	158,449.80	8.8639 %	100.0000 %	8.8639 %
Sweden	125,754.00	NP EMCO	118,291.55	5.8084 %	77.4968 %	4.5013 %
		EPEX	11,349.77		22.5032 %	1.3071 %
		NASDAQ	N/A		0.0000 %	0.0000 %
Northern Ireland (calculated as part of 9 TWh of UK)	9,000.00	SONI	7,750.41	0.8179 %	100.0000 %	0.8179 %
		NP EMCO	0.00		0.0000 %	0.0000 %
Norway	124,572.83	EPEX	4,788.63	6.0193 %	18.9008 %	1.1377 %
		NP EMCO	138,102.60		81.0992 %	4.8816 %
		NASDAQ	N/A		0.0000 %	0.0000 %
<b>Total / Checksum</b>	<b>2,615,091.08</b>		<b>1 385 100,16</b>	<b>100.000 %</b>		<b>100.000 %</b>

## 1.4 The following sharing key was used for sharing of all NEMOs costs of operating the SDAC in 2024:

Applied in Q1 2024, Q2 2024, Q3 2024, and for 50% of costs of Q4 2024

Table 77

MS	Final consumption in 2022 according to Report nrg_cb_e (26/02/2024 23:00) in GWh	Entity	Traded volume 2023 DA (GWh) to be used for sharing of SDAC costs in 2024	MS share to be used for sharing of SDAC costs in 2024 – operating	NEMO share within MS to be used for sharing of SDAC costs in 2024 – operating	CACM Share – SDAC to be used for sharing of SDAC costs in 2024 – operating
Austria	66,141.26	EPEX	13,364.00	2.4633 %	51.5089 %	1.2688 %
		EXAA	8,455.00		36.6696 %	0.9033 %
		NP EMCO	235.00		11.8215 %	0.2912 %
Belgium	78,129.30	EPEX	13,509.92	2.7107 %	64.4483 %	1.7470 %
		NP EMCO	6,340.00		35.5517 %	0.9637 %
Bulgaria	32,027.82	IBEX	27,662.35	1.7473 %	100.0000 %	1.7473 %
Croatia	16,569.00	CROPEX	4,842.37	0.9651 %	100.0000 %	0.9651 %
Czechia	59,888.76	OTE	20,719.10	2.2894 %	100.0000 %	2.2894 %
Denmark	32,263.95	NP EMCO	20,051.55	1.7531 %	64.9737 %	1.1391 %
		EPEX	7,620.81		35.0263 %	0.6141 %
		NASDAQ	N/A		0.0000 %	0.0000 %
Estonia	7,307.76	NP EMCO	5,680.00	0.7584 %	83.3333 %	0.6320 %
		EPEX	0.00		16.6667 %	0.1264 %
Finland	78,217.00	NP EMCO	53,430.00	3.3485 %	81.3472 %	2.7239 %
		EPEX	1,640.64		18.6528 %	0.6246 %
		NASDAQ	N/A		0.0000 %	0.0000 %
France	425,506.61	EPEX	93,929.28	12.4745 %	94.1701 %	11.7473 %
		NASDAQ	N/A		0.0000 %	0.0000 %
		NP EMCO	5,815.00		5.8299 %	0.7273 %
Germany	489,330.40	EPEX	204,419.49	16.5804 %	33.3333 %	5.5268 %
		NP EMCO	31,730.00		33.3333 %	5.5268 %
		NASDAQ	N/A		0.0000 %	0.0000 %
		EXAA	6,367.00		33.3333 %	5.5268 %
Greece	49,475.13	HENEX	52,598.81	2.6154 %	100.0000 %	2.6154 %
Hungary	42,413.00	HUPX	20,685.01	1.8702 %	100.0000 %	1.8702 %
Ireland	30,852.15	EirGRID	33,638.59	1.8270 %	100.0000 %	1.8270 %
		NP EMCO	0.00		0.0000 %	0.0000 %
Italy	295,840.01	GME	180,697.42	10.8294 %	100.0000 %	10.8294 %
Latvia	6,717.58	NP EMCO	5,926.95	0.7487 %	83.3333 %	0.6239 %
		EPEX	0,00		16.6667 %	0.1248 %
Lithuania	11,451.80	NP EMCO	6,328.90	0.8693 %	83.3333 %	0.7245 %
		EPEX	0.00		16.6667 %	0.1449 %

Table 77

MS	Final consumption in 2022 according to Report nrg_cb_e (26/02/2024 23:00) in GWh	Entity	Traded volume 2023 DA (GWh) to be used for sharing of SDAC costs in 2024	MS share to be used for sharing of SDAC costs in 2024 – operating	NEMO share within MS to be used for sharing of SDAC costs in 2024 – operating	CACM Share – SDAC to be used for sharing of SDAC costs in 2024 – operating
Luxembourg	6,143.15	EPEX	0.00	0.0000 %	0.0000 %	0.0000 %
		NASDAQ	N/A		0.0000 %	0.0000 %
		NP EMCO	0.00		0.0000 %	0.0000 %
Netherlands	108,847.66	EPEX	30,574.08	3.8661 %	70.9473 %	2.7429 %
		NP EMCO	12,520.00		29.0527 %	1.1232 %
Poland	154,822.90	TGE	5,916.89	4.3267 %	63.0869 %	2.7296 %
		EPEX	1,227.40		21.8930 %	0.9472 %
		NP EMCO	445.00		15.0201 %	0.6499 %
Portugal	49,470.23	OMIE	53,901.20	2.6388 %	100.0000 %	2.6388 %
Romania	45,407.27	OPCOM	13,475.03	1.8118 %	100.0000 %	1.8118 %
		BRM	0.00		0.0000 %	0.0000 %
Slovakia	23,969.00	OKTE	9,409.53	1.0550 %	100.0000 %	1.0550 %
Slovenia	13,125.50	BSP	2,620.62	0.8425 %	100.0000 %	0.8425 %
Spain	231,847.00	OMIE	158,449.80	8.8948 %	100.0000 %	8.8948 %
Sweden	125,754.00	NP EMCO	118,291.55	5.8333 %	77.4968 %	4.5206 %
		EPEX	11,349.77		22.5032 %	1.3127 %
		NASDAQ	N/A		0.0000 %	0.0000 %
Northern Ireland (calculated as part of 9 TWh of UK)	9,000.00	SONI	7,750.41	0.8363 %	100.0000 %	0.8363 %
		NP EMCO	0.00		0.0000 %	0.0000 %
Norway	124,572.83	EPEX	4,788.63	6.0441 %	18.9008 %	1.1424 %
		NP EMCO	138,102.60		81.0992 %	4.9017 %
		NASDAQ	N/A		0.0000 %	0.0000 %
<b>Total / Checksum</b>	<b>2,615,091.08</b>		<b>1,385,100.16</b>	<b>100.000 %</b>		<b>100.000 %</b>

Table 78

MS	Final consumption in 2022 according to Report nrg_cb_e (26/02/2024 23:00) in GWh	Entity	Traded volume 2023 DA (GWh) to be used for sharing of SDAC costs in 2024	MS share to be used for sharing of SDAC costs in 2024 – operating	NEMO share within MS to be used for sharing of SDAC costs in 2024 – operating	CACM Share – SDAC to be used for sharing of SDAC costs in 2024 – operating
Austria	66,141.26	EPEX	13,364.00	2.4633 %	51.5089 %	1.2688 %
		EXAA	8,455.00		36.6696 %	0.9033 %
		NP EMCO	235.00		11.8215 %	0.2912 %
Belgium	78,129.30	EPEX	13,509.92	2.7107 %	64.4483 %	1.7470 %
		NP EMCO	6,340.00		35.5517 %	0.9637 %
Bulgaria	32,027.82	IBEX	27,662.35	1.7473 %	100.0000 %	1.7473 %
Croatia	16,569.00	CROPEX	4,842.37	0.9651 %	100.0000 %	0.9651 %
Czechia	59,888.76	OTE	20,719.10	2.2894 %	100.0000 %	2.2894 %
Denmark	32,263.95	NP EMCO	20,051.55	1.7531 %	64.9737 %	1.1391 %
		EPEX	7,620.81		35.0263 %	0.6141 %
		NASDAQ	N/A		0.0000 %	0.0000 %
Estonia	7,307.76	NP EMCO	5,680.00	0.7584 %	83.3333 %	0.6320 %
		EPEX	0.00		16.6667 %	0.1264 %
Finland	78,217.00	NP EMCO	53,430.00	3.3485 %	81.3472 %	2.7239 %
		EPEX	1,640.64		18.6528 %	0.6246 %
		NASDAQ	N/A		0.0000 %	0.0000 %
France	425,506.61	EPEX	93,929.28	12.4745 %	94.1701 %	11.7473 %
		NASDAQ	N/A		0.0000 %	0.0000 %
		NP EMCO	5,815.00		5.8299 %	0.7273 %
Germany	489,330.40	EPEX	204,419.49	16.5804 %	33.3333 %	5.5268 %
		NP EMCO	31,730.00		33.3333 %	5.5268 %
		NASDAQ	N/A		0.0000 %	0.0000 %
		EXAA	6,367.00		33.3333 %	5.5268 %
Greece	49,475.13	HENEX	52,598.81	2.6154 %	100.0000 %	2.6154 %
Hungary	42,413.00	HUPX	20,685.01	1.8702 %	100.0000 %	1.8702 %
Ireland	30,852.15	EirGRID	33,638.59	1.8270 %	100.0000 %	1.8270 %
		NP EMCO	0.00		0.0000 %	0.0000 %
Italy	295,840.01	GME	180,697.42	10.8294 %	100.0000 %	10.8294 %
Latvia	6,717.58	NP EMCO	5,926.95	0.7487 %	83.3333 %	0.6239 %
		EPEX	0.00		16.6667 %	0.1248 %
Lithuania	11,451.80	NP EMCO	6,328.90	0.8693 %	83.3333 %	0.7245 %
		EPEX	0.00		16.6667 %	0.1449 %
Luxembourg	6,143.15	EPEX	0.00	0.0000 %	0.0000 %	0.0000 %
		NASDAQ	N/A		0.0000 %	0.0000 %
		NP EMCO	0.00		0.0000 %	0.0000 %

Table 78

MS	Final consumption in 2022 according to Report nrg_cb_e (26/02/2024 23:00) in GWh	Entity	Traded volume 2023 DA (GWh) to be used for sharing of SDAC costs in 2024	MS share to be used for sharing of SDAC costs in 2024 – operating	NEMO share within MS to be used for sharing of SDAC costs in 2024 – operating	CACM Share – SDAC to be used for sharing of SDAC costs in 2024 – operating
Netherlands	108,847.66	EPEX	30,574.08	3.8661 %	70.9473 %	2.7429 %
		NP EMCO	12,520.00		29.0527 %	1.1232 %
Poland	154,822.90	TGE	5,916.89	4.3267 %	63.0869 %	2.7296 %
		EPEX	1,227.40		21.8930 %	0.9472 %
		NP EMCO	445.00		15.0201 %	0.6499 %
Portugal	49,470.23	OMIE	53,901.20	2.6388 %	100.0000 %	2.6388 %
Romania	45,407.27	OPCOM	13,475.03	1.8118 %	83.3333 %	1.5098 %
		BRM	0.00		16.6667 %	0.3020 %
Slovakia	23,969.00	OKTE	9,409.53	1.0550 %	100.0000 %	1.0550 %
Slovenia	13,125.50	BSP	2,620.62	0.8425 %	100.0000 %	0.8425 %
Spain	231,847.00	OMIE	158,449.80	8.8948 %	100.0000 %	8.8948 %
Sweden	125,754.00	NP EMCO	118,291.55	5.8333 %	77.4968 %	4.5206 %
		EPEX	11,349.77		22.5032 %	1.3127 %
		NASDAQ	N/A		0.0000 %	0.0000 %
Northern Ireland (calculated as part of 9 TWh of UK)	9,000.00	SONI	7,750.41	0.8363 %	100.0000 %	0.8363 %
		NP EMCO	0.00		0.0000 %	0.0000 %
Norway	124,572.83	EPEX	4,788.63	6.0441 %	18.9008 %	1.1424 %
		NP EMCO	138,102.60		81.0992 %	4.9017 %
		NASDAQ	N/A		0.0000 %	0.0000 %
<b>Total/Checksum</b>	<b>2,615,091.08</b>		<b>1,385,100.16</b>	<b>100.000 %</b>		<b>100.000 %</b>

## 1.5 The following sharing key was used for the sharing of all TSOs costs of establishing and amending the SDAC in 2024:

Table 79

Member State	Parties	Final Consumption of 2022 of SDAC Operational MS	Traded volume (TV) 2023 DA (GWh) to be used for sharing of SDAC costs in 2024	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Austria	APG		0		100.00 %	2.442 %
Austria	EPEX		13,364		0.00 %	0.000 %
Austria	EXAA		8,455		0.00 %	0.000 %
Austria	EMCO		235		0.00 %	0.000 %
Austria		66,141	22,054	2.442 %	100.00 %	2.442 %
Belgium	ELIA		0		100.00 %	2.689 %
Belgium	EPEX		13,510		0.00 %	0.000 %
Belgium	EMCO		6,340		0.00 %	0.000 %
Belgium		78,129	19,850	2.689 %	100.00 %	2.689 %
Bulgaria	ESO		0		100.00 %	1.728 %
Bulgaria	IBEX		27,662		0.00 %	0.000 %
Bulgaria		32,028	27,662	1.728 %	100.00 %	1.728 %
Croatia	HOPS		0		100.00 %	0.946 %
Croatia	CROPEX		4,842		0.00 %	0.000 %
Croatia		16,569	4,842	0.946 %	100.00 %	0.946 %
Czech Republic	ČEPS		0		100.00 %	2.268 %
Czech Republic	OTE		20,719		0.00 %	0.000 %
Czech Republic		59,889	20,719	2.268 %	100.00 %	2.268 %
Denmark	Energinet		0		100.00 %	1.734 %
Denmark	EMCO		20,052		0.00 %	0.000 %
Denmark	EPEX		7,621		0.00 %	0.000 %
Denmark	Nasdaq		0		0.00 %	0.000 %
Denmark		32,264	27,672	1.734 %	100.00 %	1.734 %
Estonia	Elering		0		100.00 %	0.740 %
Estonia	EMCO		5,680		0.00 %	0.000 %
Estonia	EPEX		0		0.00 %	0.000 %
Estonia		7,308	5,680	0.740 %	100.00 %	0.740 %
Finland	Fingrid		0		99.50 %	3.310 %
Finland	Kraftnät Åland		0		0.50 %	0.017 %
Finland	EMCO		53,430		0.00 %	0.000 %
Finland	EPEX		1,641		0.00 %	0.000 %
Finland	Nasdaq		0		0.00 %	0.000 %
Finland		78,217	55,071	3.326 %	100.00 %	3.326 %

Table 79

Member State	Parties	Final Consumption of 2022 of SDAC Operational MS	Traded volume (TV) 2023 DA (GWh) to be used for sharing of SDAC costs in 2024	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
France	RTE		0		100.00 %	12.433 %
France	EPEX		93,929		0.00 %	0.000 %
France	EMCO		5,815		0.00 %	0.000 %
France		425,507	99,744	12.433 %	100.00 %	12.433 %
Germany	50Hertz		0		22.06 %	3.647 %
Germany	Amprion		0		31.64 %	5.232 %
Germany	TenneT DE		0		28.04 %	4.636 %
Germany	Transnet		0		17.27 %	2.855 %
Germany	Baltic Cable		0		1.00 %	0.165 %
Germany	EPEX		204,419		0.00 %	0.000 %
Germany	EMCO		31,730		0.00 %	0.000 %
Germany	EXAA		6,367		0.00 %	0.000 %
Germany	Nasdaq		0		0.00 %	0.000 %
Germany		489,330	242,516	16.535 %	100.00 %	16.535 %
Greece	ADMIE		0		100.00 %	2.595 %
Greece	Henex		52,599		0.00 %	0.000 %
Greece		49,475	52,599	2.595 %	100.00 %	2.595 %
Hungary	Mavir		0		100.00 %	1.850 %
Hungary	HUPX		20,685		0.00 %	0.000 %
Hungary		42,413	20,685	1.850 %	100.00 %	1.850 %
Ireland	EirGrid (TSO)		0		100.00 %	1.807 %
Ireland	EirGrid (NEMO)		33,639		0.00 %	0.000 %
Ireland	EMCO		0		0.00 %	0.000 %
Ireland		30,852	33,639	1.807 %	100.00 %	1.807 %
Italy	Terna		0		100.00 %	10.795 %
Italy	GME		180,697		0.00 %	0.000 %
Italy		295,840	180,697	10.795 %	100.00 %	10.795 %
Latvia	AST		0		100.00 %	0.730 %
Latvia	EMCO		5,927		0.00 %	0.000 %
Latvia	EPEX		0		0.00 %	0.000 %
Latvia		6,718	5,927	0.730 %	100.00 %	0.730 %



Table 79

Member State	Parties	Final Consumption of 2022 of SDAC Operational MS	Traded volume (TV) 2023 DA (GWh) to be used for sharing of SDAC costs in 2024	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Lithuania	Litgrid		0		100.00 %	0.851 %
Lithuania	EMCO		6,329		0.00 %	0.000 %
Lithuania	EPEX		0		0.00 %	0.000 %
Lithuania		11,452	6,329	0.851 %	100.00 %	0.851 %
Luxembourg	CREOS		0		100.00 %	0.610 %
Luxembourg	EPEX		0		0.00 %	0.000 %
Luxembourg	EMCO		0		0.00 %	0.000 %
Luxembourg	Nasdaq		0		0.00 %	0.000 %
Luxembourg		6,143	0	0.610 %	100.00 %	0.610 %
Netherlands	TenneT BV		0		100.00 %	3.842 %
Netherlands	EPEX		30,574		0.00 %	0.000 %
Netherlands	EMCO		12,520		0.00 %	0.000 %
Netherlands		108,848	43,094	3.842 %	100.00 %	3.842 %
Poland	PSE		0		100.00 %	4.300 %
Poland	TGE		5,917		0.00 %	0.000 %
Poland	EPEX		1,227		0.00 %	0.000 %
Poland	EMCO		445		0.00 %	0.000 %
Poland		154,823	7,589	4.300 %	100.00 %	4.300 %
Portugal	REN		0		100.00 %	2.618 %
Portugal	OMIE		53,901		0.00 %	0.000 %
Portugal		49,470	53,901	2.618 %	100.00 %	2.618 %
Romania	Transelectrica		0		100.00 %	1.791 %
Romania	OPCOM		13,475		0.00 %	0.000 %
Romania		45,407	13,475	1.791 %	100.00 %	1.791 %
Slovakia	SEPS		0		100.00 %	1.036 %
Slovakia	OKTE		9,409		0.00 %	0.000 %
Slovakia		23,969	0	1.036 %	100.00 %	1.036 %
Slovenia	ELES		0		100.00 %	0.824 %
Slovenia	BSP		2,621		0.00 %	0.000 %
Slovenia		13,126	2,621	0.824 %	100.00 %	0.824 %
Spain	REE		0		100.00 %	8.864 %
Spain	OMIE		158,450		0.00 %	0.000 %
Spain		231,847	158,450	8.864 %	100.00 %	8.864 %

Table 79

Member State	Parties	Final Consumption of 2022 of SDAC Operational MS	Traded volume (TV) 2023 DA (GWh) to be used for sharing of SDAC costs in 2024	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Sweden	Affärsverket svenska kraftnät		0		100.00 %	5.808 %
Sweden	EMCO		118,292		0.00 %	0.000 %
Sweden	EPEX		11,350		0.00 %	0.000 %
Sweden	Nasdaq		0		0.00 %	0.000 %
Sweden		125,754	129,641	5.808 %	100.00 %	5.808 %
Northern Ireland	EMCO		0		0.00 %	0.000 %
Northern Ireland	SONI (TSO)		0		100.00 %	0.818 %
Northern Ireland	SONI (NEMO)		7,750		0.00 %	0.000 %
Northern Ireland		9,000	7,750	0.818 %	100.00 %	0.818 %
Norway	Statnett		0		100.00 %	6.019 %
Norway	EPEX		4,789		0.00 %	0.000 %
Norway	EMCO		138,103		0.00 %	0.000 %
Norway		124,573	142,891	6.019 %	100.00 %	6.019 %

## 1.6 The following sharing key was used for the sharing of all TSOs costs of Operating the SDAC in 2024:

Table 80

Member State	Parties	Final Consumption of 2022 (GWh)	Traded volume (TV) 2023 DA (GWh)	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Austria	APG		0		100.00 %	2.463 %
Austria	EPEX		13,364		0.00 %	0.000 %
Austria	EXAA		8,455		0.00 %	0.000 %
Austria	EMCO		235		0.00 %	0.000 %
Austria		66,141	22,054	2.463 %	100.00 %	2.463 %
Belgium	ELIA		0		100.00 %	2.711 %
Belgium	EPEX		13,510		0.00 %	0.000 %
Belgium	EMCO		6,340		0.00 %	0.000 %
Belgium		78,129	19,850	2.711 %	100.00 %	2.711 %
Bulgaria	ESO		0		100.00 %	1.747 %
Bulgaria	IBEX		27,662		0.00 %	0.000 %
Bulgaria		32,028	27,662	1.747 %	100.00 %	1.747 %
Croatia	HOPS		0		100.00 %	0.965 %
Croatia	Cropex		4,842		0.00 %	0.000 %
Croatia		16,569	4,842	0.965 %	100.00 %	0.965 %

Table 80

Member State	Parties	Final Consumption of 2022 (GWh)	Traded volume (TV) 2023 DA (GWh)	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Czech Republic	ČEPS		0		100.00 %	2.289 %
Czech Republic	OTE		20,719		0.00 %	0.000 %
Czech Republic		59,889	20,719	2.289 %	100.00 %	2.289 %
Denmark	Energinet		0		100.00 %	1.753 %
Denmark	EMCO		20,052		0.00 %	0.000 %
Denmark	EPEX		7,621		0.00 %	0.000 %
Denmark	Nasdaq		0		0.00 %	0.000 %
Denmark		32,264	27,672	1.753 %	100.00 %	1.753 %
Estonia	Elering		0		100.00 %	0.758 %
Estonia	EMCO		5,680		0.00 %	0.000 %
Estonia	EPEX		0		0.00 %	0.000 %
Estonia		7,308	5,680	0.758 %	100.00 %	0.758 %
Finland	Fingrid		0		99.50 %	3.332 %
Finland	Kraftnät Åland		0		0.50 %	0.017 %
Finland	EMCO		53,430		0.00 %	0.000 %
Finland	EPEX		1,641		0.00 %	0.000 %
Finland	Nasdaq		0		0.00 %	0.000 %
Finland		78,217	55,071	3.349 %	100.00 %	3.349 %
France	RTE		0		100.00 %	12.475 %
France	EPEX		93,929		0.00 %	0.000 %
France	EMCO		5,815		0.00 %	0.000 %
France		425,507	99,744	12.475 %	100.00 %	12.475 %
Germany	50Hertz		0		22.06 %	3.657 %
Germany	Amprion		0		31.64 %	5.246 %
Germany	TenneT DE		0		28.04 %	4.649 %
Germany	Transnet		0		17.27 %	2.863 %
Germany	Baltic Cable		0		1.00 %	0.166 %
Germany	EPEX		204,419		0.00 %	0.000 %
Germany	EMCO		31,730		0.00 %	0.000 %
Germany	EXAA		6,367		0.00 %	0.000 %
Germany	Nasdaq		0		0.00 %	0.000 %
Germany		489,330	242,516	16.580 %	100.00 %	16.580 %
Greece	ADMIE		0		100.00 %	2.615 %
Greece	Henex		52,599		0.00 %	0.000 %
Greece		49,475	52,599	2.615 %	100.00 %	2.615 %

Table 80

Member State	Parties	Final Consumption of 2022 (GWh)	Traded volume (TV) 2023 DA (GWh)	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Hungary	Mavir		0		100.00 %	1.870 %
Hungary	HUPX		20,685		0.00 %	0.000 %
Hungary		42,413	20,685	1.870 %	100.00 %	1.870 %
Ireland	EirGrid (TSO)		0		100.00 %	1.827 %
Ireland	EirGrid (NEMO)		33,639		0 %	0.000 %
Ireland	EMCO		0		0 %	0.000 %
Ireland		30,852	33,639	1.827 %	100.00 %	1.827 %
Italy	Terna		0		100.00 %	10.829 %
Italy	GME		180,697		0.00 %	0.000 %
Italy		295,840	180,697	10.829 %	100.00 %	10.829 %
Latvia	AST		0		100.00 %	0.749 %
Latvia	EMCO		5,927		0.00 %	0.000 %
Latvia	EPEX		0		0.00 %	0.000 %
Latvia		6,718	5,927	0.749 %	100.00 %	0.749 %
Lithuania	Litgrid		0		100.00 %	0.869 %
Lithuania	EMCO		6,329		0.00 %	0.000 %
Lithuania	EPEX		0		0.00 %	0.000 %
Lithuania		11,452	6,329	0.869 %	100.00 %	0.869 %
Luxembourg	CREOS					
Luxembourg	EPEX					
Luxembourg	EMCO					
Luxembourg	Nasdaq					
Luxembourg						
Netherlands	TenneT BV		0		100.00 %	3.866 %
Netherlands	EPEX		30,574		0.00 %	0.000 %
Netherlands	EMCO		12,520		0.00 %	0.000 %
Netherlands		108,848	43,094	3.866 %	100.00 %	3.866 %
Poland	PSE		0		100.00 %	4.327 %
Poland	TGE		5,917		0.00 %	0.000 %
Poland	EPEX		1,227		0.00 %	0.000 %
Poland	EMCO		445		0.00 %	0.000 %
Poland		154,823	7,589	4.327 %	100.00 %	4.327 %
Portugal	REN		0		100.00 %	2.639 %
Portugal	OMIE		53,901		0.00 %	0.000 %
Portugal		49,470	53,901	2.639 %	100.00 %	2.639 %

Table 80

Member State	Parties	Final Consumption of 2022 (GWh)	Traded volume (TV) 2023 DA (GWh)	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Romania	Transelectrica		0		100.00 %	1.812 %
Romania	OPCOM		13,475		0.00 %	0.000 %
Romania		45,407	13,475	1.812 %	100.00 %	1.812 %
Slovakia	SEPS		0		100.00 %	1.055 %
Slovakia	OKTE		9,409		0.00 %	0.000 %
Slovakia		23,969	0	1.055 %	100.00 %	1.055 %
Slovenia	ELES		0		100.00 %	0.843 %
Slovenia	BSP		2,621		0.00 %	0.000 %
Slovenia		13,126	2,621	0.843 %	100.00 %	0.843 %
Spain	REE		0		100.00 %	8.895 %
Spain	OMIE		158,450		0.00 %	0.000 %
Spain		231,847	158,450	8.895 %	100.00 %	8.895 %
Sweden	Affärsverket svenska kraftnät		0		100.00 %	5.833 %
Sweden	EMCO		118,292		0.00 %	0.000 %
Sweden	EPEX		11,350		0.00 %	0.000 %
Sweden	Nasdaq		0		0.00 %	0.000 %
Sweden		125,754	129,641	5.833 %	100.00 %	5.833 %
Northern Ireland	EMCO		0		0.00 %	0.000 %
Northern Ireland	SONI (TSO)		0		100.00 %	0.836 %
Northern Ireland	SONI (NEMO)		7,750		0.00 %	0.000 %
Northern Ireland		9,000	7,750	0.836 %	100.00 %	0.836 %
Norway	Statnett		0		100.00 %	6.044 %
Norway	EPEX		4,789		0.00 %	0.000 %
Norway	EMCO		138,103		0.00 %	0.000 %
Norway		124,573	142,891	6.044 %	100.00 %	6.044 %

## 2.1 The following sharing key was used for the sharing of all TSOs and NEMOs costs of establishing and amending the SIDC in 2024:

Table 81

Member State	Parties	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 ID (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Shares per Party used for the costs of 2024
Austria	APG		0		50.000 %	1.458 %
Austria	EPEX		5,048		36.643 %	1.069 %
Austria	EXAA		0		0.000 %	0.000 %
Austria	EMCO		896		13.357 %	0.390 %
Austria		66,141	5,944	2.916 %	100.000 %	2.916 %
Belgium	ELIA		0		50.000 %	1.685 %
Belgium	EPEX		5,997		38.887 %	1.310 %
Belgium	EMCO		1,082		11.113 %	0.374 %
Belgium		78,129	7,079	3.369 %	100.000 %	3.369 %
Bulgaria	ESO		0		50.000 %	0.782 %
Bulgaria	IBEX		2,280		50.000 %	0.782 %
Bulgaria		32,028	2,280	1.563 %	100.000 %	1.563 %
Croatia	HOPS		0		50.000 %	0.485 %
Croatia	CROPEX		750		50.000 %	0.485 %
Croatia		16,569	750	0.969 %	100.000 %	0.969 %
Czech Republic	ČEPS		0		50.000 %	1.185 %
Czech Republic	OTE		3,234		50.000 %	1.185 %
Czech Republic		59,889	3,234	2.369 %	100.000 %	2.369 %
Denmark	Energinet		0		50.000 %	1.396 %
Denmark	EMCO		4,229		21.616 %	0.604 %
Denmark	EPEX		6,385		28.384 %	0.793 %
Denmark	Nasdaq				0.000 %	0.000 %
Denmark		32,264	10,614	2.792 %	100.000 %	2.792 %
Estonia	Elering		0		50.000 %	0.341 %
Estonia	EMCO		297		41.667 %	0.284 %
Estonia	EPEX		0		8.333 %	0.057 %
Estonia		7,308	297	0.681 %	100.000 %	0.681 %
Finland	Fingrid		0		50.000 %	1.321 %
Finland	EMCO		1,692		35.025 %	0.926 %
Finland	EPEX		421		14.975 %	0.396 %
Finland	Nasdaq				0.000 %	0.000 %
Finland		78,217	2,113	2.642 %	100.000 %	2.642 %

Table 81

Member State	Parties	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 ID (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Shares per Party used for the costs of 2024
France	RTE		0		50.000 %	6.773 %
France	EPEX		18,600		25.000 %	3.387 %
France	EMCO		1,249		25.000 %	3.387 %
France	Nasdaq				0.000 %	0.000 %
France		425,507	19,849	13.546 %	100.000 %	13.546 %
Germany	50Hertz		0		22.280 %	4.950 %
Germany	Amprion		0		31.960 %	7.100 %
Germany	TenneT DE		0		28.320 %	6.291 %
Germany	Transnet		0		17.440 %	3.874 %
Germany	EPEX		49,676		0.000 %	0.000 %
Germany	EMCO		18,842		0.000 %	0.000 %
Germany	EXAA		0		0.000 %	0.000 %
Germany	Nasdaq				0.000 %	0.000 %
Germany		489,330	68,517	22.215 %	100.000 %	22.215 %
Greece	ADMIE		0		50.000 %	1.111 %
Greece	Henex		3,930		50.000 %	1.111 %
Greece		49,475	3,930	2.222 %	100.000 %	2.222 %
Hungary	Mavir		0		50.000 %	1.022 %
Hungary	HUPX		3,862		50.000 %	1.022 %
Hungary		42,413	3,862	2.043 %	100.000 %	2.043 %
Ireland	EirGrid (TSO)		0		50.000 %	0.600 %
Ireland	EirGrid (NEMO)		0		50.000 %	0.600 %
Ireland	EMCO		0		0.000 %	0.000 %
Ireland		30,852	0	1.200 %	100.000 %	1.200 %
Italy	Terna		0		50.000 %	4.128 %
Italy	GME		4,926		50.000 %	4.128 %
Italy		295,840	4,926	8.257 %	100.000 %	8.257 %
Latvia	AST		0		50.000 %	0.334 %
Latvia	EMCO		300		41.667 %	0.278 %
Latvia	EPEX		0		8.333 %	0.056 %
Latvia		6,718	300	0.668 %	100.000 %	0.668 %
Lithuania	Litgrid		0		50.000 %	0.384 %
Lithuania	EMCO		211		41.667 %	0.320 %
Lithuania	EPEX		0		8.333 %	0.064 %
Lithuania		11,452	211	0.768 %	100.000 %	0.768 %

Table 81

Member State	Parties	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 ID (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Shares per Party used for the costs of 2024
Luxembourg	CREOS		0		100.000 %	0.610 %
Luxembourg	EPEX		0		0.000 %	0.000 %
Luxembourg	EMCO		0		0.000 %	0.000 %
Luxembourg	Nasdaq				0.000 %	0.000 %
Luxembourg		6,143	0	0.610 %	100.000 %	0.610 %
Netherlands	TenneT BV		0		50.000 %	2.479 %
Netherlands	EPEX		10,801		41.871 %	2.076 %
Netherlands	EMCO		2,089		8.100 %	0.402 %
Netherlands	ETPA		8		0.030 %	0.001 %
Netherlands		108,848	12,898	4.958 %	100.000 %	4.958 %
Poland	PSE		0		50.000 %	2.450 %
Poland	TGE		3,130		26.353 %	1.291 %
Poland	EPEX		975		12.031 %	0.589 %
Poland	EMCO		912		11.616 %	0.569 %
Poland		154,823	5,016	4.900 %	100.000 %	4.900 %
Portugal	REN		0		50.000 %	0.928 %
Portugal	OMIE		1,436		50.000 %	0.928 %
Portugal		49,470	1,436	1.856 %	100.000 %	1.856 %
Romania	Transelectrica		0		50.000 %	0.831 %
Romania	OPCOM		777		41.667 %	0.693 %
Romania	BRM		0		8.333 %	0.139 %
Romania		45,407	777	1.662 %	100.000 %	1.662 %
Slovakia	SEPS		0		50.000 %	0.518 %
Slovakia	OKTE		721		50.000 %	0.518 %
Slovakia		23,969	0	1.036 %	100.000 %	1.036 %
Slovenia	ELES		0		50.000 %	0.442 %
Slovenia	BSP		727		50.000 %	0.442 %
Slovenia		13,126	727	0.883 %	100.000 %	0.883 %
Spain	REE		0		50.000 %	3.617 %
Spain	OMIE		8,375		50.000 %	3.617 %
Spain		231,847	8,375	7.233 %	100.000 %	7.233 %
Sweden	Affärsverket svenska kraftnät		0		50.000 %	2.073 %
Sweden	EMCO		3,181		31.301 %	1.298 %
Sweden	EPEX		1,436		18.699 %	0.775 %
Sweden	Nasdaq				0.000 %	0.000 %



Table 81

Member State	Parties	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 ID (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Shares per Party used for the costs of 2024
Sweden		125,754	4,617	4.146 %	100.000 %	4.146 %
Northern Ireland	EMCO		0		0.000 %	0.000 %
Northern Ireland	SONI (TSO)		0		100.000 %	0.678 %
Northern Ireland	SONI (NEMO)		0		0.000 %	0.000 %
Northern Ireland		9,000	0	0.678 %	100.000 %	0.678 %
Norway	Statnett		0		50.000 %	1.908 %
Norway	EPEX		775		18.406 %	0.703 %
Norway	Nasdaq				0.000 %	0.000 %
Norway	EMCO		1,790		31.594 %	1.206 %
Norway		124,573	2,565	3.817 %	100.000 %	3.817 %

## 2.2 The following sharing key was used for the sharing of all TSOs and NEMOs costs of operating the SIDC in 2024:

Table 82

Member State	Parties	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 ID (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Shares per Party used for the costs of 01.01 to 15.05 2024	Share within MS	Shares per Party used for the costs of 16.05 to 31.12 2024
Austria	APG		0		50.000 %	1.501 %	50.000 %	1.501 %
Austria	EPEX		5,048		36.643 %	1.100 %	36.643 %	1.100 %
Austria	EXAA		0		0.000 %	0.000 %	0.000 %	0.000 %
Austria	EMCO		896		13.357 %	0.401 %	13.357 %	0.401 %
Austria		66,141	5,944	3.002 %	100.000 %	3.002 %	100.000 %	3.002 %
Belgium	ELIA		0		50.000 %	1.730 %	50.000 %	1.730 %
Belgium	EPEX		5,997		38.887 %	1.346 %	38.887 %	1.346 %
Belgium	EMCO		1,082		11.113 %	0.385 %	11.113 %	0.385 %
Belgium		78,129	7,079	3.461 %	100.000 %	3.461 %	100.000 %	3.461 %
Bulgaria	ESO		0		50.000 %	0.817 %	50.000 %	0.817 %
Bulgaria	IBEX		2,280		50.000 %	0.817 %	50.000 %	0.817 %
Bulgaria		32,028	2,280	1.635 %	100.000 %	1.635 %	100.000 %	1.635 %
Croatia	HOPS		0		50.000 %	0.517 %	50.000 %	0.517 %
Croatia	Cropex		750		50.000 %	0.517 %	50.000 %	0.517 %
Croatia		16,569	750	1.034 %	100.000 %	1.034 %	100.000 %	1.034 %
Czech Republic	ČEPS		0		50.000 %	1.226 %	50.000 %	1.226 %
Czech Republic	OTE		3,234		50.000 %	1.226 %	50.000 %	1.226 %
Czech Republic		59,889	3,234	2.453 %	100.000 %	2.453 %	100.000 %	2.453 %

Table 82

Member State	Parties	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 ID (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Shares per Party used for the costs of 01.01 to 15.05 2024	Share within MS	Shares per Party used for the costs of 16.05 to 31.12 2024
Denmark	Energinet		0		50.000 %	1.432 %	50.000 %	1.432 %
Denmark	EMCO		4,229		21.616 %	0.619 %	21.616 %	0.619 %
Denmark	EPEX		6,385		28.384 %	0.813 %	28.384 %	0.813 %
Denmark	Nasdaq		0		0.000 %	0.000 %	0.000 %	0.000 %
Denmark		32,264	10,614	2.864%	100.000 %	2.864 %	100.000 %	2.864 %
Estonia	Elering		0		50.000 %	0.371 %	50.000 %	0.371 %
Estonia	EMCO		297		41.667 %	0.309 %	41.667 %	0.309 %
Estonia	EPEX		0		8.333 %	0.062 %	8.333 %	0.062 %
Estonia		7,308	297	0.742%	100.000 %	0.742 %	100.000 %	0.742 %
Finland	Fingrid		0		50.000 %	1.367 %	50.000 %	1.367 %
Finland	EMCO		1,692		35.025 %	0.958 %	35.025 %	0.958 %
Finland	EPEX		421		14.975 %	0.409 %	14.975 %	0.409 %
Finland	Nasdaq		0		0.000 %	0.000 %	0.000 %	0.000 %
Finland		78,217	2,113	2.734%	100.000 %	2.734 %	100.000 %	2.734 %
France	RTE		0		50.000 %	6.893 %	50.000 %	6.893 %
France	EPEX		18,600		46.853 %	6.459 %	46.853 %	6.459 %
France	EMCO		1,249		3.147 %	0.434 %	3.147 %	0.434 %
France	Nasdaq		0		0.000 %	0.000 %	0.000 %	0.000 %
France		425,507	19,849	13.786%	100.000 %	13.786 %	100.000 %	13.786 %
Germany	50Hertz		0		22.280 %	5.009 %	22.280 %	5.009 %
Germany	Amprion		0		31.960 %	7.185 %	31.960 %	7.185 %
Germany	TenneT DE		0		28.320 %	6.367 %	28.320 %	6.367 %
Germany	Transnet		0		17.440 %	3.921 %	17.440 %	3.921 %
Germany	EPEX		49,676		0.000 %	0.000 %	0.000 %	0.000 %
Germany	EMCO		18,842		0.000 %	0.000 %	0.000 %	0.000 %
Germany	EXAA		0		0.000 %	0.000 %	0.000 %	0.000 %
Germany	Nasdaq		0		0.000 %	0.000 %	0.000 %	0.000 %
Germany		489,330	68,517	22.483%	100.000 %	22.483 %	100.000 %	22.483 %
Greece	ADMIE		0		50.000 %	1.151 %	50.000 %	1.151 %
Greece	Henex		3,930		50.000 %	1.151 %	50.000 %	1.151 %
Greece		49,475	3,930	2.301%	100.000 %	2.301 %	100.000 %	2.301 %
Hungary	Mavir		0		50.000 %	1.060 %	50.000 %	1.060 %
Hungary	HUPX		3,862		50.000 %	1.060 %	50.000 %	1.060 %
Hungary		42,413	3,862	2.119 %	100.000 %	2.119 %	100.000 %	2.119 %

Table 82

Member State	Parties	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 ID (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Shares per Party used for the costs of 01.01 to 15.05 2024	Share within MS	Shares per Party used for the costs of 16.05 to 31.12 2024
Ireland	EirGrid (TSO)							
Ireland	EirGrid (NEMO)							
Ireland	EMCO							
Ireland								
Italy	Terna		0		50.000 %	4.220 %	50.000 %	4.220 %
Italy	GME		4,926		50.000 %	4.220 %	50.000 %	4.220 %
Italy		295,840	4,926	8.441 %	100.000 %	8.441 %	100.000 %	8.441 %
Latvia	AST		0		50.000 %	0.364 %	50.000 %	0.364 %
Latvia	EMCO		300		41.667 %	0.303 %	41.667 %	0.303 %
Latvia	EPEX		0		8.333 %	0.061 %	8.333 %	0.061 %
Latvia		6,718	300	0.728 %	100.000 %	0.728 %	100.000 %	0.728 %
Lithuania	Litgrid		0		50.000 %	0.415 %	50.000 %	0.415 %
Lithuania	EMCO		211		41.667 %	0.346 %	41.667 %	0.346 %
Lithuania	EPEX		0		8.333 %	0.069 %	8.333 %	0.069 %
Lithuania		11,452	211	0.830 %	100.000 %	0.830 %	100.000 %	0.830 %
Luxembourg	CREOS							
Luxembourg	EPEX							
Luxembourg	EMCO							
Luxembourg	Nasdaq							
Luxembourg								
Netherlands	TenneT BV		0		50.000 %	2.531 %	50.000 %	2.531 %
Netherlands	EPEX		10,801		41.871 %	2.120 %	41.871 %	2.120 %
Netherlands	EMCO		2,089		8.100 %	0.410 %	8.100 %	0.410 %
Netherlands	ETPA		8		0.030 %	0.001 %	0.030 %	0.001 %
Netherlands		108,848	12,898	5.062 %	100.000 %	5.062 %	100.000 %	5.062 %
Poland	PSE		0		50.000 %	2.512 %	50.000 %	2.512 %
Poland	TGE		3,130		26.353 %	1.324 %	26.353 %	1.324 %
Poland	EPEX		975		12.031 %	0.604 %	12.031 %	0.604 %
Poland	EMCO		912		11.616 %	0.584 %	11.616 %	0.584 %
Poland		154,823	5,016	5.024 %	100.000 %	5.024 %	100.000 %	5.024 %
Portugal	REN		0		50.000 %	0.968 %	50.000 %	0.968 %
Portugal	OMIE		1,436		50.000 %	0.968 %	50.000 %	0.968 %
Portugal		49,470	1,436	1.935 %	100.000 %	1.935 %	100.000 %	1.935 %

Table 82

Member State	Parties	Final Consumption of 2022 – Used for the costs of 2024	Traded volume (TV) 2023 ID (GWh) – Used for the costs of 2024	Shares MS Used for the costs of 2024	Share within MS	Shares per Party used for the costs of 01.01 to 15.05 2024	Share within MS	Shares per Party used for the costs of 16.05 to 31.12 2024
Romania	Transelectrica		0		50.000 %	0.870 %	50.000 %	0.870 %
Romania	OPCOM		777		50.000 %	0.870 %	41.667 %	0.725 %
Romania	BRM		0		0.000 %	0.000 %	8.333 %	0.145 %
Romania		45,407	777	1.740 %	100.000 %	1.740 %	100.000 %	1.595 %
Slovakia	SEPS		0		50.000 %	0.552 %	50.000 %	0.552 %
Slovakia	OKTE		721		50.000 %	0.552 %	50.000 %	0.552 %
Slovakia		23,969	0	1.104 %	100.000 %	1.104 %	100.000 %	1.104 %
Slovenia	ELES		0		50.000 %	0.473 %	50.000 %	0.473 %
Slovenia	BSP		727		50.000 %	0.473 %	50.000 %	0.473 %
Slovenia		13,126	727	0.947 %	100.000 %	0.947 %	100.000 %	0.947 %
Spain	REE		0		50.000 %	3.695 %	50.000 %	3.695 %
Spain	OMIE		8,375		50.000 %	3.695 %	50.000 %	3.695 %
Spain		231,847	8,375	7.390 %	100.000 %	7.390 %	100.000 %	7.390 %
Sweden	Affärsverket svenska kraftnät		0		50.000 %	2.129 %	50.000 %	2.129 %
Sweden	EMCO		3,181		31.301 %	1.333 %	31.301 %	1.333 %
Sweden	EPEX		1,436		18.699 %	0.796 %	18.699 %	0.796 %
Sweden	Nasdaq		0		0.000 %	0.000 %	0.000 %	0.000 %
Sweden		125,754	4,617	4.258 %	100.000 %	4.258 %	100.000 %	4.258 %
Northern Ireland	EMCO							
Northern Ireland	SONI (TSO)							
Northern Ireland	SONI (NEMO)							
Northern Ireland								
Norway	Statnett		0		50.000 %	1.964 %	50.000 %	1.964 %
Norway	EPEX		775		18.406 %	0.723 %	18.406 %	0.723 %
Norway	Nasdaq		0		0.000 %	0.000 %	0.000 %	0.000 %
Norway	EMCO		1,790		31.594 %	1.241 %	31.594 %	1.241 %
Norway		124,573	2,565	3.928 %	100.000 %	3.928 %	100.000 %	3.928 %

## 2.3 The following sharing key was used for the sharing of all NEMOs costs of establishing and amending the SIDC in 2024:

Table 83

MS	Final consumption in 2022 according to Report nrg_cb_e (26/02/2024 23:00) in GWh	Entity	Traded volume 2023 ID (GWh) – used only for sharing calc. in some MNA areas	MS share to be used for sharing of SIDC costs in 2024 – establishing and amending	NEMO share within MS to be used for sharing of SIDC costs in 2024 – establishing and amending	CACM Share – SIDC to be used for sharing of SIDC costs in 2024 – establishing and amending
Austria	66,141.26	EPEX	5,048.38	2.9163 %	73.2865 %	2.1372 %
		EXAA	0.00			
		NP EMCO	895.80		26.7135 %	0.7790 %
Belgium	78,129.30	EPEX	5,997.48	3.3694 %	77.7745 %	2.6205 %
		NP EMCO	1,081.85		22.2255 %	0.7489 %
Bulgaria	32,027.82	IBEX	2,279.56	1.5630 %	100.0000 %	1.5630 %
Croatia	16,569.00	CROPEX	749.76	0.9690 %	100.0000 %	0.9690 %
Czechia	59,888.76	OTE	3,234.08	2.3690 %	100.0000 %	2.3690 %
Denmark	32,263.95	NP EMCO	4,229.35	2.7920 %	43.2315 %	1.2070 %
		EPEX	6,384.55		56.7685 %	1.5850 %
		NASDAQ				0.0000 %
Estonia	7,307.76	NP EMCO	296.85	0.6812 %	83.3333 %	0.5677 %
		EPEX	0.00		16.6667 %	0.1135 %
Finland	78,217.00	NP EMCO	1,691.60	2.6424 %	70.0505 %	1.8510 %
		EPEX	420.90		29.9495 %	0.7914 %
		NASDAQ				
France	425,506.61	EPEX	18,599.57	13.5460 %	50.0000 %	6.7730 %
		NASDAQ				
		NP EMCO	1,249.40		50.0000 %	6.7730 %
Germany	489,330.40	EPEX	49,675.62	22.2153 %	50.0000 %	11.1077 %
		NP EMCO	18,841.75		50.0000 %	11.1077 %
		NASDAQ				
		EXAA				
Greece	49,475.13	HENEX	3,929.50	2.2222 %	100.0000 %	2.2222 %
Hungary	42,413.00	HUPX	3,861.61	2.0435 %	100.0000 %	2.0435 %
Ireland	30,852.15	EirGRID		1.2003 %	100.0000 %	1.2003 %
		NP EMCO			0.0000 %	0.0000 %
Italy	295,840.01	GME	4,926.01	8.2565 %	100.0000 %	8.2565 %
Latvia	6,717.58	NP EMCO	300.15	0.6676 %	83.3333 %	0.5563 %
		EPEX	0.00		16.6667 %	0.1113 %
Lithuania	11,451.80	NP EMCO	210.80	0.7676 %	83.3333 %	0.6397 %
		EPEX	0.00		16.6667 %	0.1279 %

Table 83

MS	Final consumption in 2022 according to Report nrg_cb_e (26/02/2024 23:00) in GWh	Entity	Traded volume 2023 ID (GWh) – used only for sharing calc. in some MNA areas	MS share to be used for sharing of SIDC costs in 2024 – establishing and amending	NEMO share within MS to be used for sharing of SIDC costs in 2024 – establishing and amending	CACM Share – SIDC to be used for sharing of SIDC costs in 2024 – establishing and amending
Luxembourg	6,143.15	EPEX		0.6098 %	50.0000 %	0.3049 %
		NASDAQ				
		NP EMCO			50.0000 %	0.3049 %
Netherlands	108,847.66	EPEX	10,800.67	4.9576 %	83.7417 %	4.1516 %
		ETPA	7.63		0.0592 %	0.0029 %
		NP EMCO	2,089.30		16.1991 %	0.8031 %
Poland	154,822.90	TGE	3,129.82	4.8995 %	52.7056 %	2.5823 %
		EPEX	974.53		24.0624 %	1.1789 %
		NP EMCO	912.05		23.2320 %	1.1383 %
Portugal	49,470.23	OMIE	1,435.70	1.8560 %	100.0000 %	1.8560 %
Romania	45,407.27	OPCOM	776.90	1.6622 %	83.3333 %	1.3852 %
		BRM	0.00		16.6667 %	0.2770 %
Slovakia	23,969.00	OKTE	721.39	1.0358 %	100.0000 %	1.0358 %
Slovenia	13,125.50	BSP	726.76	0.8833 %	100.0000 %	0.8833 %
Spain	231,847.00	OMIE	8,374.70	7.2333 %	100.0000 %	7.2333 %
Sweden	125,754.00	NP EMCO	3,181.45	4.1462 %	62.6029 %	2.5956 %
		EPEX	1,435.75		37.3971 %	1.5506 %
		NASDAQ				
Northern Ireland (calculated as part of 9 TWh of UK)	9,000.00	SONI		0.6781 %	100.0000 %	0.6781 %
		NP EMCO			0.0000 %	0.0000 %
Norway	124,572.83	EPEX	775.02	3.8167 %	36.8119 %	1.4050 %
		NP EMCO	1,789.75		63.1881 %	2.4117 %
		NASDAQ				
<b>Total/Checksum</b>	<b>2,615,091.08</b>		<b>170,314.60</b>	<b>100.000 %</b>		<b>100.000 %</b>

## 2.4 The following sharing key was used for the sharing of all NEMOs costs of operating the SIDC in 2024:

Applied in Q1 2024 and for 50% of costs of Q2 2024.

Table 84

MS	Final consumption in 2022 according to Report nrg_cb_e (26/02/2024 23:00) in GWh	Entity	Traded volume 2023 ID (GWh) – used only for sharing calc. in some MNA areas	MS share to be used for sharing of SIDC costs in 2024 – operating	NEMO share within MS to be used for sharing of SIDC costs in 2024 – operating	CACM Share – SIDC to be used for sharing of SIDC costs in 2024 – operating
Austria	66,141.26	EPEX	5,048.38	3.0024 %	73.2865 %	2.2004 %
		EXAA	0.00			0.0000 %
		NP EMCO	895.80		26.7135 %	0.8021 %
Belgium	78,129.30	EPEX	5,997.48	3.4607 %	77.7745 %	2.6915 %
		NP EMCO	1,081.85		22.2255 %	0.7692 %
Bulgaria	32,027.82	IBEX	2,279.56	1.6346 %	100.0000 %	1.6346 %
Croatia	16,569.00	CROPEX	749.76	1.0340 %	100.0000 %	1.0340 %
Czechia	59,888.76	OTE	3,234.08	2.4525 %	100.0000 %	2.4525 %
Denmark	32,263.95	NP EMCO	4,229.35	2.8637 %	43.2315 %	1.2380 %
		EPEX	6,384.55		56.7685 %	1.6257 %
		NASDAQ				0.0000 %
Estonia	7,307.76	NP EMCO	296.85	0.7422 %	83.3333 %	0.6185 %
		EPEX	0.00		16.6667 %	0.1237 %
Finland	78,217.00	NP EMCO	1,691.60	2.7338 %	70.0505 %	1.9150 %
		EPEX	420.90		29.9495 %	0.8187 %
		NASDAQ				0.0000 %
France	425,506.61	EPEX	18,599.57	13.7860 %	93.7055 %	12.9182 %
		NASDAQ				0.0000 %
		NP EMCO	1,249.40		6.2945 %	0.8678 %
Germany	489,330.40	EPEX	49,675.62	22.4826 %	50.0000 %	11.2413 %
		NP EMCO	18,841.75		50.0000 %	11.2413 %
		NASDAQ				0.0000 %
		EXAA				0.0000 %
Greece	49,475.13	HENEX	3,929.50	2.3012 %	100.0000 %	2.3012 %
Hungary	42,413.00	HUPX	3,861.61	2.1195 %	100.0000 %	2.1195 %
Ireland	30,852.15	EirGRID		0.0 %		0.0000 %
		NP EMCO				0.0000 %
Italy	295,840.01	GME	4,926.01	8.4410 %	100.0000 %	8.4410 %
Latvia	6,717.58	NP EMCO	300.15	0.7283 %	83.3333 %	0.6069 %
		EPEX	0.00		16.6667 %	0.1214 %

Table 84

MS	Final consumption in 2022 according to Report nrg_cb_e (26/02/2024 23:00) in GWh	Entity	Traded volume 2023 ID (GWh) – used only for sharing calc. in some MNA areas	MS share to be used for sharing of SIDC costs in 2024 – operating	NEMO share within MS to be used for sharing of SIDC costs in 2024 – operating	CACM Share – SIDC to be used for sharing of SIDC costs in 2024 – operating
Lithuania	11,451.80	NP EMCO	210.80	0.8304 %	83.3333 %	0.6920 %
		EPEX	0.00		16.6667 %	0.1384 %
Luxembourg	6,143.15	EPEX		0.0 %	50.0000 %	0.0000 %
		NASDAQ				0.0000 %
		NP EMCO			50.0000 %	0.0000 %
Netherlands	108,847.66	EPEX	10,800.67	5.0620 %	83.7417 %	4.2390 %
		ETPA	7.63		0.0592 %	0.0030 %
		NP EMCO	2,089.30		16.1991 %	0.8200 %
Poland	154,822.90	TGE	3,129.82	5.0237 %	52.7056 %	2.6477 %
		EPEX	974.53		24.0624 %	1.2088 %
		NP EMCO	912.05		23.2320 %	1.1671 %
Portugal	49,470.23	OMIE	1,435.70	1.9351 %	100.0000 %	1.9351 %
Romania	45,407.27	OPCOM	776.90	1.7395 %	100.0000 %	1.7395 %
		BRM	0.00		0.0000 %	0.0000 %
Slovakia	23,969.00	OKTE	721.39	1.1039 %	100.0000 %	1.1039 %
Slovenia	13,125.50	BSP	726.76	0.9468 %	100.0000 %	0.9468 %
Spain	231,847.00	OMIE	8,374.70	7.3904 %	100.0000 %	7.3904 %
Sweden	125,754.00	NP EMCO	3,181.45	4.2579 %	62.6029 %	2.6656 %
		EPEX	1,435.75		37.3971 %	1.5923 %
		NASDAQ				0.0000 %
Northern Ireland (calculated as part of 9 TWh of UK)	9,000.00	SONI		0.0 %	100.0000 %	0.0000 %
		NP EMCO			0.0000 %	0.0000 %
Norway	124,572.83	EPEX	775.02	3.9279 %	36.8119 %	1.4459 %
		NP EMCO	1,789.75		63.1881 %	2.4819 %
		NASDAQ				0.0000 %
<b>Total/Checksum</b>	<b>2,615,091.08</b>		<b>170,314.60</b>	<b>100.000 %</b>		<b>100.000 %</b>



Applied in for 50% of costs of Q2 2024 and for Q3 and Q4 of 2024.

Table 85

MS	Final consumption in 2022 according to Report nrg_cb_e (26/02/2024 23:00) in GWh	Entity	Traded volume 2023 ID (GWh) – used only for sharing calc. in some MNA areas	MS share to be used for sharing of SIDC costs in 2024 – operating	NEMO share within MS to be used for sharing of SIDC costs in 2024 – operating	CACM Share – SIDC to be used for sharing of SIDC costs in 2024 – operating
Austria	66,141.26	EPEX	5,048.38	3.0024 %	73.2865 %	2.2004 %
		EXAA	0.00			0.0000 %
		NP EMCO	895.80		26.7135 %	0.8021 %
Belgium	78,129.30	EPEX	5,997.48	3.4607 %	77.7745 %	2.6915 %
		NP EMCO	1,081.85		22.2255 %	0.7692 %
Bulgaria	32,027.82	IBEX	2,279.56	1.6346 %	100.0000 %	1.6346 %
Croatia	16,569.00	CROPEX	749.76	1.0340 %	100.0000 %	1.0340 %
Czechia	59,888.76	OTE	3,234.08	2.4525 %	100.0000 %	2.4525 %
Denmark	32,263.95	NP EMCO	4,229.35	2.8637 %	43.2315 %	1.2380 %
		EPEX	6,384.55		56.7685 %	1.6257 %
		NASDAQ				0.0000 %
Estonia	7,307.76	NP EMCO	296.85	0.7422 %	83.3333 %	0.6185 %
		EPEX	0.00		16.6667 %	0.1237 %
Finland	78,217.00	NP EMCO	1,691.60	2.7338 %	70.0505 %	1.9150 %
		EPEX	420.90		29.9495 %	0.8187 %
		NASDAQ				0.0000 %
France	425,506.61	EPEX	18,599.57	13.7860 %	93.7055 %	12.9182 %
		NASDAQ				0.0000 %
		NP EMCO	1,249.40		6.2945 %	0.8678 %
Germany	489,330.40	EPEX	49,675.62	22.4826 %	50.0000 %	11.2413 %
		NP EMCO	18,841.75		50.0000 %	11.2413 %
		NASDAQ				0.0000 %
		EXAA				0.0000 %
Greece	49,475.13	HENEX	3,929.50	2.3012 %	100.0000 %	2.3012 %
Hungary	42,413.00	HUPX	3,861.61	2.1195 %	100.0000 %	2.1195 %
Ireland	30,852.15	EirGRID		0.0 %		0.0000 %
		NP EMCO				0.0000 %
Italy	295,840.01	GME	4,926.01	8.4410 %	100.0000 %	8.4410 %
Latvia	6,717.58	NP EMCO	300.15	0.7283 %	83.3333 %	0.6069 %
		EPEX	0.00		16.6667 %	0.1214 %
Lithuania	11,451.80	NP EMCO	210.80	0.8304 %	83.3333 %	0.6920 %
		EPEX	0.00		16.6667 %	0.1384 %

Table 85

MS	Final consumption in 2022 according to Report nrg_cb_e (26/02/2024 23:00) in GWh	Entity	Traded volume 2023 ID (GWh) – used only for sharing calc. in some MNA areas	MS share to be used for sharing of SIDC costs in 2024 – operating	NEMO share within MS to be used for sharing of SIDC costs in 2024 – operating	CACM Share – SIDC to be used for sharing of SIDC costs in 2024 – operating
Luxembourg	6,143.15	EPEX		0.0 %	50.0000 %	0.0000 %
		NASDAQ				0.0000 %
		NP EMCO			50.0000 %	0.0000 %
Netherlands	108,847.66	EPEX	10,800.67	5.0620 %	83.7417 %	4.2390 %
		ETPA	7.63		0.0592 %	0.0030 %
		NP EMCO	2,089.30		16.1991 %	0.8200 %
Poland	154,822.90	TGE	3,129.82	5.0237 %	52.7056 %	2.6477 %
		EPEX	974.53		24.0624 %	1.2088 %
		NP EMCO	912.05		23.2320 %	1.1671 %
Portugal	49,470.23	OMIE	1,435.70	1.9351 %	100.0000 %	1.9351 %
Romania	45,407.27	OPCOM	776.90	1.7395 %	83.3333 %	1.4496 %
		BRM	0.00		16.6667 %	0.2899 %
Slovakia	23,969.00	OKTE	721.39	1.1039 %	100.0000 %	1.1039 %
Slovenia	13,125.50	BSP	726.76	0.9468 %	100.0000 %	0.9468 %
Spain	231,847.00	OMIE	8,374.70	7.3904 %	100.0000 %	7.3904 %
Sweden	125,754.00	NP EMCO	3,181.45	4.2579 %	62.6029 %	2.6656 %
		EPEX	1,435.75		37.3971 %	1.5923 %
		NASDAQ				0.0000 %
Northern Ireland (calculated as part of 9 TWh of UK)	9,000.00.	SONI		0.0 %	100.0000 %	0.0000 %
		NP EMCO			0.0000 %	0.0000 %
Norway	124,572.83	EPEX	775.02	3.9279 %	36.8119 %	1.4459 %
		NP EMCO	1,789.75		63.1881 %	2.4819 %
		NASDAQ				0.0000 %
<b>Total/Checksum</b>	<b>2,615,091.08</b>		<b>170,314.60</b>	<b>100.000 %</b>		<b>100.000 %</b>

## 2.5 The following sharing key was used for the sharing of all TSOs costs of establishing and amending the SIDC in 2024

Table 86

Member State	Parties	Final Consumption of 2022 of SDAC Operational MS	Traded volume (TV) 2023 DA (GWh) to be used for sharing of SDAC costs in 2024	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Austria	APG		0		100.00 %	2.916 %
Austria	EPEX		5,048		0.00 %	0.000 %
Austria	EXAA		0		0.00 %	0.000 %
Austria	EMCO		896		0.00 %	0.000 %
Austria		66,141	5,944	2.916 %	100.00 %	2.916 %
Belgium	ELIA		0		100.00 %	3.369 %
Belgium	EPEX		5,997		0.00 %	0.000 %
Belgium	EMCO		1,082		0.00 %	0.000 %
Belgium		78,129	7,079	3.369 %	100.00 %	3.369 %
Bulgaria	ESO		0		100.00 %	1.563 %
Bulgaria	IBEX		2,280		0.00 %	0.000 %
Bulgaria		32,028	2,280	1.563 %	100.00 %	1.563 %
Croatia	HOPS		0		100.00 %	0.969 %
Croatia	CROPEX		750		0.00 %	0.000 %
Croatia		16,569	750	0.969 %	100.00 %	0.969 %
Czech Republic	ČEPS		0		100.00 %	2.369 %
Czech Republic	OTE		3,234		0.00 %	0.000 %
Czech Republic		59,889	3,234	2.369 %	100.00 %	2.369 %
Denmark	Energinet		0		100.00 %	2.792 %
Denmark	EMCO		4,229		0.00 %	0.000 %
Denmark	EPEX		6,385		0.00 %	0.000 %
Denmark	Nasdaq		0		0.00 %	0.000 %
Denmark		32,264	10,614	2.792 %	100.00 %	2.792 %
Estonia	Elering		0		100.00 %	0.681 %
Estonia	EMCO		297		0.00 %	0.000 %
Estonia	EPEX		0		0.00 %	0.000 %
Estonia		7,308	297	0.681 %	100.00 %	0.681 %
Finland	Fingrid		0		100.00 %	2.642 %
Finland	Kraftnät Åland		0		0.00 %	0.000 %
Finland	EMCO		1,692		0.00 %	0.000 %
Finland	EPEX		421		0.00 %	0.000 %
Finland	Nasdaq		0		0.00 %	0.000 %
Finland		78,217	2,113	2.642 %	100.00 %	2.642 %

Table 86

Member State	Parties	Final Consumption of 2022 of SDAC Operational MS	Traded volume (TV) 2023 DA (GWh) to be used for sharing of SDAC costs in 2024	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
France	RTE		0		100.00 %	13.546 %
France	EPEX		18,600		0.00 %	0.000 %
France	EMCO		1,249		0.00 %	0.000 %
France		425,507	19,849	13.546 %	100.00 %	13.546 %
Germany	50Hertz		0		22.28 %	4.950 %
Germany	Amprion		0		31.96 %	7.100 %
Germany	TenneT DE		0		28.32 %	6.291 %
Germany	Transnet		0		17.44 %	3.874 %
Germany	Baltic Cable		0		0.00 %	0.000 %
Germany	EPEX		49,676		0.00 %	0.000 %
Germany	EMCO		18,842		0.00 %	0.000 %
Germany	EXAA		0		0.00 %	0.000 %
Germany	Nasdaq		0		0.00 %	0.000 %
Germany		489,330	68,517	22.215 %	100.00 %	22.215 %
Greece	ADMIE		0		100.00 %	2.222 %
Greece	Henex		3,930		0.00 %	0.000 %
Greece		49,475	3,930	2.222 %	100.00 %	2.222 %
Hungary	Mavir		0		100.00 %	2.043 %
Hungary	HUPX		3,862		0.00 %	0.000 %
Hungary		42,413	3,862	2.043 %	100.00 %	2.043 %
Ireland	EirGrid (TSO)		0		100.00 %	1.200 %
Ireland	EirGrid (NEMO)		0		0.00 %	0.000 %
Ireland	EMCO		0		0.00 %	0.000 %
Ireland		30,852	0	1.200 %	100.00 %	1.200 %
Italy	Terna		0		100.00 %	8.257 %
Italy	GME		4,926		0.00 %	0.000 %
Italy		295,840	4,926	8.257 %	100.00 %	8.257 %
Latvia	AST		0		100.00 %	0.668 %
Latvia	EMCO		300		0.00 %	0.000 %
Latvia	EPEX		0		0.00 %	0.000 %
Latvia		6,718	300	0.668 %	100.00 %	0.668 %
Lithuania	Litgrid		0		100.00 %	0.768 %
Lithuania	EMCO		211		0.00 %	0.000 %
Lithuania	EPEX		0		0.00 %	0.000 %
Lithuania		11,452	211	0.768 %	100.00 %	0.768 %

Table 86

Member State	Parties	Final Consumption of 2022 of SDAC Operational MS	Traded volume (TV) 2023 DA (GWh) to be used for sharing of SDAC costs in 2024	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Luxembourg	CREOS		0		100.00 %	0.610 %
Luxembourg	EPEX		0		0.00 %	0.000 %
Luxembourg	EMCO		0		0.00 %	0.000 %
Luxembourg	Nasdaq		0		0.00 %	0.000 %
Luxembourg		6,143	0	0.610 %	100.00 %	0.610 %
Netherlands	TenneT BV		0		100.00 %	4.958 %
Netherlands	ETPA		8		0.00 %	0.000 %
Netherlands	EPEX		10,801		0.00 %	0.000 %
Netherlands	EMCO		2,089		0.00 %	0.000 %
Netherlands		108,848	12,898	4.958 %	100.00 %	4.958 %
Poland	PSE		0		100.00 %	4.900 %
Poland	TGE		3,130		0.00 %	0.000 %
Poland	EPEX		975		0.00 %	0.000 %
Poland	EMCO		912		0.00 %	0.000 %
Poland		154,823	5,016	4.900 %	100.00 %	4.900 %
Portugal	REN		0		100.00 %	1.856 %
Portugal	OMIE		1,436		0.00 %	0.000 %
Portugal		49,470	1,436	1.856 %	100.00 %	1.856 %
Romania	Transelectrica		0		100.00 %	1.662 %
Romania	OPCOM		777		0.00 %	0.000 %
Romania		45,407	777	1.662 %	100.00 %	1.662 %
Slovakia	SEPS		0		100.00 %	1.036 %
Slovakia	OKTE		721		0.00 %	0.000 %
Slovakia		23,969	0	1.036 %	100.00 %	1.036 %
Slovenia	ELES		0		100.00 %	0.883 %
Slovenia	BSP		727		0.00 %	0.000 %
Slovenia		13,126	727	0.883 %	100.00 %	0.883 %
Spain	REE		0		100.00 %	7.233 %
Spain	OMIE		8,375		0.00 %	0.000 %
Spain		231,847	8,375	7.233 %	100.00 %	7.233 %
Sweden	Affärsverket svenska kraftnät		0		100.00 %	4.146 %
Sweden	EMCO		3,181		0.00 %	0.000 %
Sweden	EPEX		1,436		0.00 %	0.000 %
Sweden	Nasdaq		0		0.00 %	0.000 %
Sweden		125,754	4,617	4.146 %	100.00 %	4.146 %

Table 86

Member State	Parties	Final Consumption of 2022 of SDAC Operational MS	Traded volume (TV) 2023 DA (GWh) to be used for sharing of SDAC costs in 2024	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Northern Ireland	EMCO		0		0.00 %	0.000 %
Northern Ireland	SONI (TSO)		0		100.00 %	0.678 %
Northern Ireland	SONI (NEMO)		0		0.00 %	0.000 %
Northern Ireland		9,000	0	0.678 %	100.00 %	0.678 %
Norway	Statnett		0		100.00 %	3.817 %
Norway	EPEX		775		0.00 %	0.000 %
Norway	EMCO		1,790		0.00 %	0.000 %
Norway		124,573	2,565	3.817 %	100.00 %	3.817 %

## 2.6 The following sharing key was used for the sharing of all TSOs costs of operating the SIDC in Q1 2024

Table 87

Member State	Parties	Final Consumption of 2022 (GWh)	Traded volume (TV) 2023 DA (GWh)	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Austria	APG		0		100.00 %	2.938 %
Austria	EPEX		5,048		0.00 %	0.000 %
Austria	EXAA		0		0.00 %	0.000 %
Austria	EMCO		896		0.00 %	0.000 %
Austria		66,141	5,944	2.938 %	100.00 %	2.938 %
Belgium	ELIA		0		100.00 %	3.392 %
Belgium	EPEX		5,997		0.00 %	0.000 %
Belgium	EMCO		1,082		0.00 %	0.000 %
Belgium		78,129	7,079	3.392 %	100.00 %	3.392 %
Bulgaria	ESO		0		100.00 %	1.583 %
Bulgaria	IBEX		2,280		0.00 %	0.000 %
Bulgaria		32,028	2,280	1.583 %	100.00 %	1.583 %
Croatia	HOPS		0		100.00 %	0.988 %
Croatia	Cropex		750		0.00 %	0.000 %
Croatia		16,569	750	0.988 %	100.00 %	0.988 %
Czech Republic	ČEPS		0		100.00 %	2.390 %
Czech Republic	OTE		3,234		0.00 %	0.000 %
Czech Republic		59,889	3,234	2.390 %	100.00 %	2.390 %

Table 87

Member State	Parties	Final Consumption of 2022 (GWh)	Traded volume (TV) 2023 DA (GWh)	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Denmark	Energinet		0		100.00 %	2.812 %
Denmark	EMCO		4,229		0.00 %	0.000 %
Denmark	EPEX		6,385		0.00 %	0.000 %
Denmark	Nasdaq		0		0.00 %	0.000 %
Denmark		32,264	10,614	2.812 %	100.00 %	2.812 %
Estonia	Elering		0		100.00 %	0.699 %
Estonia	EMCO		297		0.00 %	0.000 %
Estonia	EPEX		0		0.00 %	0.000 %
Estonia		7,308	297	0.699 %	100.00 %	0.699 %
Finland	Fingrid		0		100.00 %	2.665 %
Finland	Kraftnät Åland		0		0.00 %	0.000 %
Finland	EMCO		1,692		0.00 %	0.000 %
Finland	EPEX		421		0.00 %	0.000 %
Finland	Nasdaq		0		0.00 %	0.000 %
Finland		78,217	2,113	2.665 %	100.00 %	2.665 %
France	RTE		0		100.00 %	13.588 %
France	EPEX		18,600		0.00 %	0.000 %
France	EMCO		1,249		0.00 %	0.000 %
France		425,507	19,849	13.588 %	100.00 %	13.588 %
Germany	50Hertz		0		22.28 %	4.960 %
Germany	Amprion		0		31.96 %	7.115 %
Germany	TenneT DE		0		28.32 %	6.304 %
Germany	Transnet		0		17.44 %	3.882 %
Germany	Baltic Cable		0		0.00 %	0.000 %
Germany	EPEX		49,676		0.00 %	0.000 %
Germany	EMCO		18,842		0.00 %	0.000 %
Germany	EXAA		0		0.00 %	0.000 %
Germany	Nasdaq		0		0.00 %	0.000 %
Germany		489,330	68,517	22.261 %	100.00 %	22.261 %
Greece	ADMIE		0		100.00 %	2.243 %
Greece	Henex		3,930		0.00 %	0.000 %
Greece		49,475	3,930	2.243 %	100.00 %	2.243 %
Hungary	Mavir		0		100.00 %	2.064 %
Hungary	HUPX		3,862		0.00 %	0.000 %
Hungary		42,413	3,862	2.064 %	100.00 %	2.064 %

Table 87

Member State	Parties	Final Consumption of 2022 (GWh)	Traded volume (TV) 2023 DA (GWh)	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Ireland	EirGrid (TSO)		0		100.00 %	1.220 %
Ireland	EirGrid (NEMO)		0		0 %	0.000 %
Ireland	EMCO		0		0 %	0.000 %
Ireland		30,852	0	1.220 %	100.00 %	1.220 %
Italy	Terna		0		100.00 %	8.291 %
Italy	GME		4,926		0.00 %	0.000 %
Italy		295,840	4,926	8.291 %	100.00 %	8.291 %
Latvia	AST		0		100.00 %	0.686 %
Latvia	EMCO		300		0.00 %	0.000 %
Latvia	EPEX		0		0.00 %	0.000 %
Latvia		6,718	300	0.686 %	100.00 %	0.686 %
Lithuania	Litgrid		0		100.00 %	0.786 %
Lithuania	EMCO		211		0.00 %	0.000 %
Lithuania	EPEX		0		0.00 %	0.000 %
Lithuania		11,452	211	0.786 %	100.00 %	0.786 %
Luxembourg	CREOS					
Luxembourg	EPEX					
Luxembourg	EMCO					
Luxembourg	Nasdaq					
Luxembourg						
Netherlands	TenneT BV		0		100.00 %	4.982 %
Netherlands	ETPA		8		0.00 %	0.000 %
Netherlands	EPEX		10,801		0.00 %	0.000 %
Netherlands	EMCO		2,089		0.00 %	0.000 %
Netherlands		108,848	12,898	4.982 %	100.00 %	4.982 %
Poland	PSE		0		100.00 %	4.926 %
Poland	TGE		3,130		0.00 %	0.000 %
Poland	EPEX		975		0.00 %	0.000 %
Poland	EMCO		912		0.00 %	0.000 %
Poland		154,823	5,016	4.926 %	100.00 %	4.926 %
Portugal	REN		0		100.00 %	1.877 %
Portugal	OMIE		1,436		0.00 %	0.000 %
Portugal		49,470	1,436	1.877 %	100.00 %	1.877 %
Romania	Transelectrica		0		100.00 %	1.683 %
Romania	OPCOM		777		0.00 %	0.000 %
Romania		45,407	777	1.683 %	100.00 %	1.683 %



Table 87

Member State	Parties	Final Consumption of 2022 (GWh)	Traded volume (TV) 2023 DA (GWh)	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Slovakia	SEPS		0		100.00 %	1.055 %
Slovakia	OKTE		721		0.00 %	0.000 %
Slovakia		23,969	0	1.055 %	100.00 %	1.055 %
Slovenia	ELES		0		100.00 %	0.902 %
Slovenia	BSP		727		0.00 %	0.000 %
Slovenia		13,126	727	0.902 %	100.00 %	0.902 %
Spain	REE		0		100.00 %	7.264 %
Spain	OMIE		8,375		0.00 %	0.000 %
Spain		231,847	8,375	7.264 %	100.00 %	7.264 %
Sweden	Affärsverket svenska kraftnät		0		100.00 %	4.171 %
Sweden	EMCO		3,181		0.00 %	0.000 %
Sweden	EPEX		1,436		0.00 %	0.000 %
Sweden	Nasdaq		0		0.00 %	0.000 %
Sweden		125,754	4,617	4.171 %	100.00 %	4.171 %
Northern Ireland	EMCO		0		0.00 %	0.000 %
Northern Ireland	SONI (TSO)		0		100.00 %	0.696 %
Northern Ireland	SONI (NEMO)		0		0.00 %	0.000 %
Northern Ireland		9,000	0	0.696 %	100.00 %	0.696 %
Norway	Statnett		0		100.00 %	3.842 %
Norway	EPEX		775		0.00 %	0.000 %
Norway	EMCO		1,790		0.00 %	0.000 %
Norway		124,573	2,565	3.842 %	100.00 %	3.842 %

## 2.7 The following sharing key was used for the sharing of all TSOs costs of operating the SIDC from Q2 2024 to Q4 2024

Table 88

Member State	Parties	Final Consumption of 2022 (GWh)	Traded volume (TV) 2023 DA (GWh)	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Austria	APG		0		100.00 %	3.002 %
Austria	EPEX		5,048		0.00 %	0.000 %
Austria	EXAA		0		0.00 %	0.000 %
Austria	EMCO		896		0.00 %	0.000 %
Austria		66,141	5,944	3.002 %	100.00 %	3.002 %
Belgium	ELIA		0		100.00 %	3.461 %
Belgium	EPEX		5,997		0.00 %	0.000 %
Belgium	EMCO		1,082		0.00 %	0.000 %
Belgium		78,129	7,079	3.461 %	100.00 %	3.461 %
Bulgaria	ESO		0		100.00 %	1.635 %
Bulgaria	IBEX		2,280		0.00 %	0.000 %
Bulgaria		32,028	2,280	1.635 %	100.00 %	1.635 %
Croatia	HOPS		0		100.00 %	1.034 %
Croatia	CROPEX		750		0.00 %	0.000 %
Croatia		16,569	750	1.034 %	100.00 %	1.034 %
Czech Republic	ČEPS		0		100.00 %	2.453 %
Czech Republic	OTE		3,234		0.00 %	0.000 %
Czech Republic		59,889	3,234	2.453 %	100.00 %	2.453 %
Denmark	Energinet		0		100.00 %	2.864 %
Denmark	EMCO		4,229		0.00 %	0.000 %
Denmark	EPEX		6,385		0.00 %	0.000 %
Denmark	Nasdaq		0		0.00 %	0.000 %
Denmark		32,264	10,614	2.864 %	100.00 %	2.864 %
Estonia	Elering		0		100.00 %	0.742 %
Estonia	EMCO		297		0.00 %	0.000 %
Estonia	EPEX		0		0.00 %	0.000 %
Estonia		7,308	297	0.742 %	100.00 %	0.742 %
Finland	Fingrid		0		100.00 %	2.734 %
Finland	Kraftnät Åland		0		0.00 %	0.000 %
Finland	EMCO		1,692		0.00 %	0.000 %
Finland	EPEX		421		0.00 %	0.000 %
Finland	Nasdaq		0		0.00 %	0.000 %
Finland		78,217	2,113	2.734 %	100.00 %	2.734 %

Table 88

Member State	Parties	Final Consumption of 2022 (GWh)	Traded volume (TV) 2023 DA (GWh)	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
France	RTE		0		100.00 %	13.786 %
France	EPEX		18,600		0.00 %	0.000 %
France	EMCO		1,249		0.00 %	0.000 %
France		425,507	19,849	13.786 %	100.00 %	13.786 %
Germany	50Hertz		0		22.28 %	5.009 %
Germany	Amprion		0		31.96 %	7.185 %
Germany	TenneT DE		0		28.32 %	6.367 %
Germany	Transnet		0		17.44 %	3.921 %
Germany	Baltic Cable		0		0.00 %	0.000 %
Germany	EPEX		49,676		0.00 %	0.000 %
Germany	EMCO		18,842		0.00 %	0.000 %
Germany	EXAA		0		0.00 %	0.000 %
Germany	Nasdaq		0		0.00 %	0.000 %
Germany		489,330	68,517	22.483 %	100.00 %	22.483 %
Greece	ADMIE		0		100.00 %	2.301 %
Greece	Henex		3,930		0.00 %	0.000 %
Greece		49,475	3,930	2.301 %	100.00 %	2.301 %
Hungary	Mavir		0		100.00 %	2.119 %
Hungary	HUPX		3,862		0.00 %	0.000 %
Hungary		42,413	3,862	2.119 %	100.00 %	2.119 %
Ireland	EirGrid (TSO)					
Ireland	EirGrid (NEMO)					
Ireland	EMCO					
Ireland						
Italy	Terna		0		100.00 %	8.441 %
Italy	GME		4,926		0.00 %	0.000 %
Italy		295,840	4,926	8.441 %	100.00 %	8.441 %
Latvia	AST		0		100.00 %	0.728 %
Latvia	EMCO		300		0.00 %	0.000 %
Latvia	EPEX		0		0.00 %	0.000 %
Latvia		6,718	300	0.728 %	100.00 %	0.728 %

Table 88

Member State	Parties	Final Consumption of 2022 (GWh)	Traded volume (TV) 2023 DA (GWh)	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Lithuania	Litgrid		0		100.00 %	0.830 %
Lithuania	EMCO		211		0.00 %	0.000 %
Lithuania	EPEX		0		0.00 %	0.000 %
Lithuania		11,452	211	0.830 %	100.00 %	0.830 %
Luxembourg	CREOS					
Luxembourg	EPEX					
Luxembourg	EMCO					
Luxembourg	Nasdaq					
Luxembourg						
Netherlands	TenneT BV		0		100.00 %	5.062 %
Netherlands	ETPA		8		0.00 %	0.000 %
Netherlands	EPEX		10,801		0.00 %	0.000 %
Netherlands	EMCO		2,089		0.00 %	0.000 %
Netherlands		108,848	12,898	5.062 %	100.00 %	5.062 %
Poland	PSE		0		100.00 %	5.024 %
Poland	TGE		3,130		0.00 %	0.000 %
Poland	EPEX		975		0.00 %	0.000 %
Poland	EMCO		912		0.00 %	0.000 %
Poland		154,823	5,016	5.024 %	100.00 %	5.024 %
Portugal	REN		0		100.00 %	1.935 %
Portugal	OMIE		1,436		0.00 %	0.000 %
Portugal		49,470	1,436	1.935 %	100.00 %	1.935 %
Romania	Transelectrica		0		100.00 %	1.740 %
Romania	OPCOM		777		0.00 %	0.000 %
Romania		45,407	777	1.740 %	100.00 %	1.740 %
Slovakia	SEPS		0		100.00 %	1.104 %
Slovakia	OKTE		721		0.00 %	0.000 %
Slovakia		23,969	0	1.104 %	100.00 %	1.104 %
Slovenia	ELES		0		100.00 %	0.947 %
Slovenia	BSP		727		0.00 %	0.000 %
Slovenia		13,126	727	0.947 %	100.00 %	0.947 %
Spain	REE		0		100.00 %	7.390 %
Spain	OMIE		8,375		0.00 %	0.000 %
Spain		231,847	8,375	7.390 %	100.00 %	7.390 %

Table 88

Member State	Parties	Final Consumption of 2022 (GWh)	Traded volume (TV) 2023 DA (GWh)	Shares MS as used for the costs as of 2024	Share within MS as used for the costs of 2024	Shares per TSO for the costs as of 2024
Sweden	Affärsverket svenska kraftnät		0		100.00 %	4.258 %
Sweden	EMCO		3,181		0.00 %	0.000 %
Sweden	EPEX		1,436		0.00 %	0.000 %
Sweden	Nasdaq		0		0.00 %	0.000 %
Sweden		125,754	4,617	4.258 %	100.00 %	4.258 %
Northern Ireland	EMCO					
Northern Ireland	SONI (TSO)					
Northern Ireland	SONI (NEMO)					
Northern Ireland						
Norway	Statnett		0		100.00 %	3.928 %
Norway	EPEX		775		0.00 %	0.000 %
Norway	EMCO		1,790		0.00 %	0.000 %
Norway		124,573	2,565	3.928 %	100.00 %	3.928 %

## Regional Core DA & IDA Cost Sharing Keys (CSKs) in 2024

Table 89

Party	CSK E&A DA with IBEX & ESO	Party	DA – Establishment & Amendment CSK without IBEX & ESO – 2024	DA – Operational CSK without IBEX & ESO – 2024
50Hertz	7.1340 %	50Hertz	7.3838 %	7.4196 %
Amprion	10.2336 %	Amprion	10.5919 %	10.6432 %
APG	2.2946 %	APG	2.3859 %	2.4314 %
BRM	0.2793 %	BRM	0.2911 %	0.0000 %
BSP	0.7714 %	BSP	0.8147 %	0.8558 %
ČEPS	2.1378 %	ČEPS	2.2247 %	2.2697 %
Creos	1.1386 %	Creos	1.2124 %	0.0000 %
CROPEX	0.8932 %	CROPEX	0.9409 %	0.9823 %
ELES	0.7714 %	ELES	0.8147 %	0.8558 %
ELIA	2.4819 %	ELIA	2.5753 %	2.6218 %
ETPA	0.0000 %	EMCO	8.7124 %	3.6028 %
EMCO	8.4399 %	EPEX	12.2535 %	17.5820 %
EPEX	11.8529 %	EXAA	0.8749 %	0.8916 %
ESO	1.7459 %	HOPS	0.9409 %	0.9823 %
EXAA	0.8414 %	HUPX	1.8669 %	1.9105 %
HOPS	0.8932 %	Mavir	1.8669 %	1.9105 %
HUPX	1.7874 %	OKTE	0.9702 %	1.0123 %
IBEX	1.7459 %	OPCOM	1.4557 %	1.7906 %
Mavir	1.7874 %	OTE	2.2247 %	2.2697 %
Nasdaq	0.0000 %	PSE	3.8332 %	3.8860 %
OKTE	0.9259 %	RTE	11.6777 %	11.7528 %
OPCOM	1.3963 %	SEPS	0.9702 %	1.0123 %
OTE	2.1378 %	TenneT BV	3.7870 %	3.8360 %
PSE	3.7240 %	TenneT DE	9.3855 %	9.4310 %
RTE	11.3331 %	TGE	2.4182 %	2.4516 %
SEPS	0.9259 %	Transelectrica	1.7468 %	1.7906 %
TenneT BV	3.6500 %	Transnet	5.7798 %	5.8078 %
TenneT DE	9.0681 %		<b>100.0000 %</b>	<b>100.0000 %</b>
TGE	2.3493 %			
Transelectrica	1.6756 %			
Transnet	5.5843 %			
	<b>100.0000 %</b>			

## Regional Core DA & IDA Cost Sharing Key for TSOs only (TSO chair Core JSC)

Table 90

Party	CSK E&A IDA with IBEX & ESO	Party	IDA – Establishment & Amendment CSK without IBEX & ESO – 2024	IDA – Operational CSK without IBEX & ESO – 2024
50Hertz	7.4751 %	50Hertz	7.6334 %	7.6692 %
Amprion	10.7229 %	Amprion	10.9498 %	11.0012 %
APG	2.3369 %	APG	2.4090 %	2.4545 %
BRM	0.2381 %	BRM	0.2473 %	0.0000 %
BSP	0.7784 %	BSP	0.8194 %	0.8606 %
ČEPS	1.9531 %	ČEPS	2.0180 %	2.0630 %
Creos	1.1386 %	Creos	1.2124 %	0.0000 %
CROPEX	0.8494 %	CROPEX	0.8920 %	0.9334 %
ELES	0.7784 %	ELES	0.8194 %	0.8606 %
ELIA	2.6850 %	ELIA	2.7641 %	2.8106 %
EMCO	8.2064 %	EMCO	8.4077 %	3.6044 %
EPEX	13.4241 %	EPEX	13.7726 %	18.8169 %
ESO	1.3047 %	EXAA	0.0000 %	0.0000 %
EXAA	0.0000 %	ETPA	0.0000 %	0.0000 %
ETPA	0.0000 %	HOPS	0.8920 %	0.9334 %
HOPS	0.8494 %	HUPX	1.7221 %	1.7656 %
HUPX	1.6634 %	Mavir	1.7221 %	1.7656 %
IBEX	1.3047 %	OKTE	0.9702 %	1.0123 %
Mavir	1.6634 %	OPCOM	1.2363 %	1.5273 %
Nasdaq	0.0000 %	OTE	2.0180 %	2.0630 %
OKTE	0.9259 %	PSE	4.1298 %	4.1826 %
OPCOM	1.1907 %	RTE	11.0985 %	11.1736 %
OTE	1.9531 %	SEPS	0.9702 %	1.0123 %
PSE	4.0222 %	TenneT BV	3.9578 %	4.0069 %
RTE	10.8525 %	TenneT DE	9.7027 %	9.7482 %
SEPS	0.9259 %	TGE	2.1766 %	2.2045 %
TenneT BV	3.8561 %	Transelectrica	1.4835 %	1.5273 %
TenneT DE	9.5016 %	Transnet	5.9751 %	6.0032 %
TGE	2.1199 %		<b>100.0000 %</b>	<b>100.0000 %</b>
Transelectrica	1.4288 %			
Transnet	5.8513 %			
	<b>100.0000 %</b>			



## Regional Core DA & IDA Cost Sharing Key for TSOs only (TSO chair Core JSC)

Table 91

Party	TSO only CSK 70/30 split E/A & O 50/50 split DA & IDA
50Hertz	10.9474 %
Amprion	15.7037 %
APG	3.5915 %
ČEPS	3.2807 %
Creos	1.2703 %
ELES	1.2480 %
ELIA	4.1140 %
HOPS	1.3706 %
Mavir	2.6899 %
PSE	5.9093 %
RTE	17.3607 %
SEPS	1.6367 %
TenneT BV	5.7074 %
TenneT DE	13.9151 %
Transelectrica	2.6856 %
Transnet	8.5692 %
	<b>100.0000 %</b>

## Regional Core DA & IDA Cost Sharing Key among NEMOs for CIP (Central Interface Point)

Table 92

Party	Core NEMO only CSK IDA – Operational with ETPA	Core NEMO only CSK IDA – Operational without ETPA
BRM	0.0000 %	0.0000 %
BSP	1.6437 %	1.5220 %
CROPEX	1.8829 %	1.6621 %
EPEX	46.7852 %	55.4556 %
ETPA	12.5451 %	0.0000 %
HUPX	3.6487 %	3.4069 %
NP EMCO	18.1093 %	25.1844 %
OKTE	2.0583 %	1.7745 %
OPCOM	3.5347 %	2.7962 %
OTE	4.4667 %	3.9423 %
TGE	5.3254 %	4.2561 %
	<b>100.0000 %</b>	<b>100.0000 %</b>



## IBWT IDA RIP Sharing Key which was used in 2024

Table 93

Entity	CSK applicable for costs of all IBWT IDA RIP parties in 2024
APG	8.33 %
BSP	8.33 %
ELES	8.33 %
EMCO	8.33 %
EPEX SPOT	8.33 %
ESO	8.33 %
GME	8.33 %
HENEX	8.33 %
IBEX	8.33 %
ADMIE	8.33 %
RTE	8.33 %
Terna	8.33 %

## CCR Hansa Sharing Key for Common Costs – PMO and Convenor

Table 94

TSO	Cost share (%)
50Hertz	10.57 %
Baltic Cable	0.26 %
Energinet	8.76 %
PSE	17.98 %
Statnett	15.84 %
SVK	16.08 %
TenneT DE	15.51 %
TenneT NL	15.00 %
	<b>100.00 %</b>

## CCR Hansa Sharing Key for NRCC costs

Table 95

TSO	Cost share (%)
50Hertz	25.69 %
Baltic Cable	0.26 %
SVK	29.40 %
Energinet (DK2)	11.37 %
PSE	33.28 %
	<b>100.00 %</b>

## CCR Hansa Sharing Key for TSCNET costs

Table 96

TSO	Cost share (%)
TenneT DE	32.84 %
TenneT NL	26.57 %
Statnett	28.22 %
Energinet (DK1)	12.38 %
	<b>100.00 %</b>

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# Imprint

**Publisher:**

NEMO Committee  
ENTSO-E AISBL  
Rue de Spa, 8  
1000 Brussels  
Belgium

**Pictures:**

© iStockphoto.com, monsitj

**Design:**

DreiDreizehn GmbH, Berlin  
[www.313.de](http://www.313.de)

**Publishing date:**

June 2025

