

Seventh Market Coupling Consultative Group Workshop

8 November 2024

Q&A via **Slido.com**
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Agenda

#	TIME	DURATION	SESSION	PRESENTER
1	09:00 – 09:10	10min	Welcome, review of the action points logged in the last meeting	Selim Boussetta, Thomas Van Den Broucke, Pierre Milon (MCCG Convenors)
2	09:10 – 10:20	1h 10min	SDAC & SIDC 15min Market Time Unit (MTU)	
			- Update on the SDAC & SIDC 15minMTU implementation planning	Adèle Roy & Benjamin Mossot (SDAC QARM Convenors) Chris Kleinpenning & Lyubomir Grozdanov (SIDC 15ITP SPoCs)
			- SDAC rollback plan	Adèle Roy & Benjamin Mossot (SDAC QARM Convenors)
			- Questions and feedback from MPs	Selim Boussetta (MCCG MPs Convenor) Thomas Van Den Broucke, Pierre Milon (MCCG Convenors)
3	10:20 – 10:50	30min	SDAC decoupling events	
			- MCSC reflection	Luiza Holban-Fediuc & Bálint Csuri (SDAC OPSCOM Chairs)
			- MPs feedback	Selim Boussetta (MCCG MPs Convenor)
	10:50 – 11:00	10min	Coffee break	

Agenda

	TIME	DURATION	SESSION	PRESENTER
4	11:00 – 11:30	30min	SIDC Intraday Auctions (IDAs)	
			- First months of IDA operations: MCSC	Dalila Garcia Notario & Martim Stilwell (SIDC OPSCOM Charis)
			- First months of IDA operations: MPs	Selim Boussetta (MCCG MPs Convenor)
5	11:30 – 11:40	10min	Implementation of 30-minute IDGCT (update from TSOs following the initial input provided on MCCG #6)	Gergő Holló (30-minute IDGCT SPoC)
6	11:40 – 11:55	15min	Methodologies' updates and consultations	Christoforos Zoumas & Chiara Vitelli (NEMO Tech TF Convenors)
			- SDAC Product methodology	
			- SIDC Product methodology	
			- Algorithm methodology	
			- HMMCP methodology	
7	11:55 – 12:05	10min	SDAC-SIDC Roadmap and key projects	André Estermann, Cosimo Campidoglio, Ondřej Máca (MCSC Chairs)
8	12:05 – 12:15	10min	Co-optimisation	Timo Suhonen & Marja Eronen (SDAC MSD Convenors)
			- MCSC co-optimisation R&D & survey update	
9	12:15 – 12:25	10min	AOB	
			- EMD reform – Trading until the latest point in time	Lara Visone (SIDC MSD Convenor)
10	12:25 – 12:30	5min	Closure	Selim Boussetta, Thomas Van Den Broucke, Pierre Milon (MCCG Convenors)

Welcome by Co-convenors of MCCG

The MCCG is led by three Co-convenors:

Market participants Co-convenor:

Selim Boussetta, Regulation and Organization of Energy Markets, EDF

TSO Co-convenor:

Thomas Van Den Broucke, Manager Offshore & Interconnectors market concepts, ELIA

NEMO Co-convenor:

Pierre Milon, Executive Expert Market Coupling & Integration, EPEX SPOT

Scope of discussion in MCCG

- To ensure clear alignment, the following overview aims to clarify which topics and discussions fall within the scope of MCSC/MCCG versus CCRs. Only the main/overlying topics currently discussed in the respective projects are listed.
- As the main guiding principle, **only topics directly stemming from the CACM guidelines and considered as MCO matters are discussed in MCCG.**
- NEMOs and TSOs would like to make clear that some requests cannot be channelled through MCCG. It is up to the market participants to raise it in the proper forum.

	MCSC / MCCG	CCRs (capacity calculation regions)
General scope	- Capacity allocation	- Capacity Calculation (CC) (Core Flow based, Nordic Flow Based)
Intraday Auctions (IDAs)	- Timings - Products & central algorithm functionalities - Central testing	- Capacity calculation (IDCC in Core CCR)
Advanced Hybrid Coupling	- Testing allocation algorithm - Central testing	- Design & Implementation into DACC - Impact assessment
SDAC & SIDC 15minMTU	- Timings - Products & central algorithm functionalities - Central testing	- Regional testing

MoM & review of action points

MoM of previous MCCG were available on NEMO Committee [\[LINK\]](#) & ENTSO-E website [\[LINK\]](#)

Overview of action points of the last MCCG:

Date	Responsible	Description	Deadline/Status
26/02/2024	NEMOs	Ask individual market parties about their expected usage of smart block products in view of increased time granularity of flexible assets and share the data with PCR ALG	Q4 2024 MCCG
27/06/2024	MCSC NEMOs/TSOs and MPs	Continue the discussion on the 15minMTU ID&DA Member testing via a dedicated call	Q4 2024 MCCG
27/06/2024	MCSC NEMOs/TSOs	Clarify in written what will be tested locally / centrally for the 15' MTU member testing in DA/ID	Q4 2024 MCCG
27/06/2024	MPs	Approach MCSC TSOs and NEMOs in order to propose ideas for the organization of member testing	Q4 2024 MCCG
27/06/2024	MPs	Identify a list of legal deliverables which are expected to be not fitting in view of the planned 15minMTU implementation	Q4 2024 MCCG
27/06/2024	MCSC NEMOs/TSOs and MPs	Collectively address to the MESC the call for a legal gap analysis to help prepare the 15minMTU GL by covering aspects which are not under NEMO- and TSOs-influence	Q4 2024 MCCG

SDAC & SIDC 15min Market Time Unit (MTU)

Update on the SDAC & SIDC 15minMTU implementation planning

Adèle Roy & Benjamin Mossot (SDAC QARM Convenors)

Chris Kleinpenning & Lyubomir Grozdanov (SIDC OPSCOM 15ITP SPoCs)

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Update on the SDAC & SIDC 15minMTU implementation planning

Progress on SIDC testing and go-live planning

- **Central systems are ready. 15' product as well as cross-border allocation is implemented in many bidding zones.**
- MCSC NEMOs and TSOs are working on the testing and implementation of the 15' MTU in ID CT and IDAs. The transition to 15' MTU in SIDC is following a sequential approach of go-live windows organized in windows of borders and bidding zones. TSOs and NEMOs aims to keep the windows fixed, without any dependency with SDAC go-live, except for Greece.

Progress status

- Preparation of the testing and go-live of the 15minMTU on SIDC borders and bidding zones is progressing well.
- Window 2: On **01/07/2024**, **successful go-live of 15' MTU in the Czech bidding zone and on the CZ-AT, CZ-DE, SK-CZ bidding zone borders** (Window 2) took place.
- Window 3: **Testing for the Baltic parties' go-live is completed**. The **go-live is scheduled for 20/11/2024**.
- Window 4: Compared to the last status update provided in June MCCG, the **bidding zones and borders scheduled for go-live in January 2025 (Window 4) were divided into two phases**. This is to allow the implementation of 15' MTU on the Italian internal borders on **01/01/2025** (W4a) and on the Italian external borders together with France and French borders (except ES-FR) and bidding zone as well as EstLink (EE-FI) on **22/01/2025** (W4b), avoiding the go-live during the new year period.
- Window 5: Go-live of the window 5 is scheduled for **18/03/2025**. Moreover, this window already containing **Spain, Portugal, FR-ES, ES-PT, and Polish borders** was modified to **include also Nordic borders***. The latter change is due to the dependencies on other Nordic projects and related operational reasons. Additionally, the development of necessary systems which are on the critical path is considered a risk. Hence, this switch is to avoid a late announcement of a delay which would have caused the delay of the whole Window 4 which the Nordic borders were initially a part of.
- Window 6: **Greece and GR-BG border** will go live as part of window 6, scheduled at the same as SDAC go-live.

*Except Estlink – scheduled for go-live as a part of the W4b on 22/01/2025

Update on the SDAC & SIDC 15minMTU implementation planning

SIDC Individual NEMO member testing

- To support the preparation for the transition to the 15’MTU in SIDC, NEMOs with borders and bidding zones yet to switch to 15’MTU are organising for their market participants dedicated member testing.
- An overview of the individual NEMO member testing for SIDC 15’MTU transition can be found below.**

NEMO	Individual member testing scheduled	High-level testing details
BSP	Wave 4 sometime between December and January	Focusing on both IDCT and IDA Operations
EPEX	Wave 4 <ul style="list-style-type: none"> CT: end of December - beginning of January IDAs: beginning of January Wave 5: TBD	Focusing on both IDCT and IDA Operations
GME	Member tests planned on 21/10 - 20/12	Testing to include IDAs. GME local parties were informed by GME. Together with those changes, a reform of Italian market will go-live.
HENEX	From end Jan-2025	Focusing on DAM Operation, IDAs Operation, IDCT Operation
IBEX	<i>No member testing foreseen for Bulgaria</i>	
NORDPOOL	Different dates for each window	Each date to be scheduled depending on the end of FIT testing
OKTE	<i>No member testing foreseen for OKTE</i>	
OMIE	From mid-December	Focusing on both IDCT and IDA Operations
OTE	<i>No member testing foreseen for OTE</i>	
TGE	Member tests planned on 12/11 - 13/12	Focusing on IDA operations

Update on the SDAC & SIDC 15minMTU implementation planning

Overview of planned go-lives

Go-live per bidding zone

Bidding zone	15 min ISP	Planned Go-live date ID CT & IDA
Austria	Implemented	Implemented
Belgium	Implemented	Implemented
Bulgaria	Implemented	Implemented
Croatia	Implemented	Implemented
Czech Republic	Implemented	Implemented
Denmark (All BZs)	Implemented	Implemented
Estonia	16/12/2024	16/12/2024
Finland	Implemented	Implemented
France	01/01/2025	22/01/2025
Germany	Implemented	Implemented
Greece	Implemented	Q2 2025 aligned with SDAC
Hungary	Implemented	Implemented
Italian BZ	01/01/2025	01/01/2025
Latvia	16/12/2024	16/12/2024
Lithuania	16/12/2024	16/12/2024
Netherlands	Implemented	Implemented
Northern Ireland	N/A	30' MTU in January
Norway (All BZs)	18/03/2025	18/03/2025
Poland	Implemented	Implemented*
Portugal	30/11/2024	18/03/2025**
Republic Of Ireland	N/A	30' MTU in January
Romania	Implemented	Implemented
Slovakia	Implemented	Implemented
Slovenia	Implemented	Implemented
Spain	01/12/2024	18/03/2025**
Sweden (All BZs)	18/03/2025	Implemented

* Polish intra-zonal products are set for 15' MTU only in continuous trading. IDAs are still to be switched to 15' MTU

** Subject to IBERIAN NRA formal approval

Go-live per border

Border	Planned Go-live date ID CT & IDA	SIDC GL window
BE-NL	Implemented	Implemented
CZ-AT	Implemented	Implemented
CZ-DE	Implemented	Implemented
CZ-PL	18/03/2025	W5
DE-AT	Implemented	Implemented
DE-BE	Implemented	Implemented
DE-DK1	18/03/2025	W5
DE-DK2	18/03/2025	W5
DE-FR	22/01/2025	W4b
DE-NL	Implemented	Implemented
DE-NO2	18/03/2025	W5
DE-PL	18/03/2025	W5
DK1-DK2	18/03/2025	W5
DK1-NL	18/03/2025	W5
DK1-NO2	18/03/2025	W5
DK1-SE3	18/03/2025	W5
DK2-SE4	18/03/2025	W5
EE-FI	22/01/2025	W4b
EE-LV	16/12/2024	W3
ES-PT	18/03/2025	W5**
FI-SE1	18/03/2025	W5
FI-SE3	18/03/2025	W5
FR-BE	22/01/2025	W4b
FR-ES	18/03/2025	W5**
GR-BG	Q2 2025 same as SDAC	W6 aligned with SDAC
HR-HU	Implemented	Implemented
HU-AT	Implemented	Implemented
HU-RO	Implemented	Implemented
HU-SI	Implemented	Implemented

Border	Planned Go-live date ID CT & IDA	SIDC GL window
IT internal	01/01/2025	W4a
IT-CP-AT	22/01/2025	W4b
IT-CP-FR	22/01/2025	W4b
IT-CP-SI	22/01/2025	W4b
IT-GR-GR	N/A	Exception***
LT-PL	18/03/2025	W5
LT-SE4	18/03/2025	W5
LV-LT	16/12/2024	W3
NO1-NO2	18/03/2025	W5
NO1-NO3	18/03/2025	W5
NO1-NO5	18/03/2025	W5
NO1-SE3	18/03/2025	W5
NO2-NL	18/03/2025	W5
NO2-NO5	18/03/2025	W5
NO3-NO4	18/03/2025	W5
NO3-NO5	18/03/2025	W5
NO3-SE2	18/03/2025	W5
NO4-SE1	18/03/2025	W5
NO4-SE2	18/03/2025	W5
PL-SE4	18/03/2025	W5
RO-BG	Implemented	Implemented
SE1-SE2	18/03/2025	W5
SE2-SE3	18/03/2025	W5
SE3-SE4	18/03/2025	W5
SI-AT	Implemented	Implemented
SI-HR	Implemented	Implemented
SK-CZ	Implemented	Implemented
SK-HU	Implemented	Implemented
SK-PL	18/03/2025	W5

* Polish intra-zonal products are set for 15' MTU only in continuous trading.

IDAs are still to be switched to 15' MTU.

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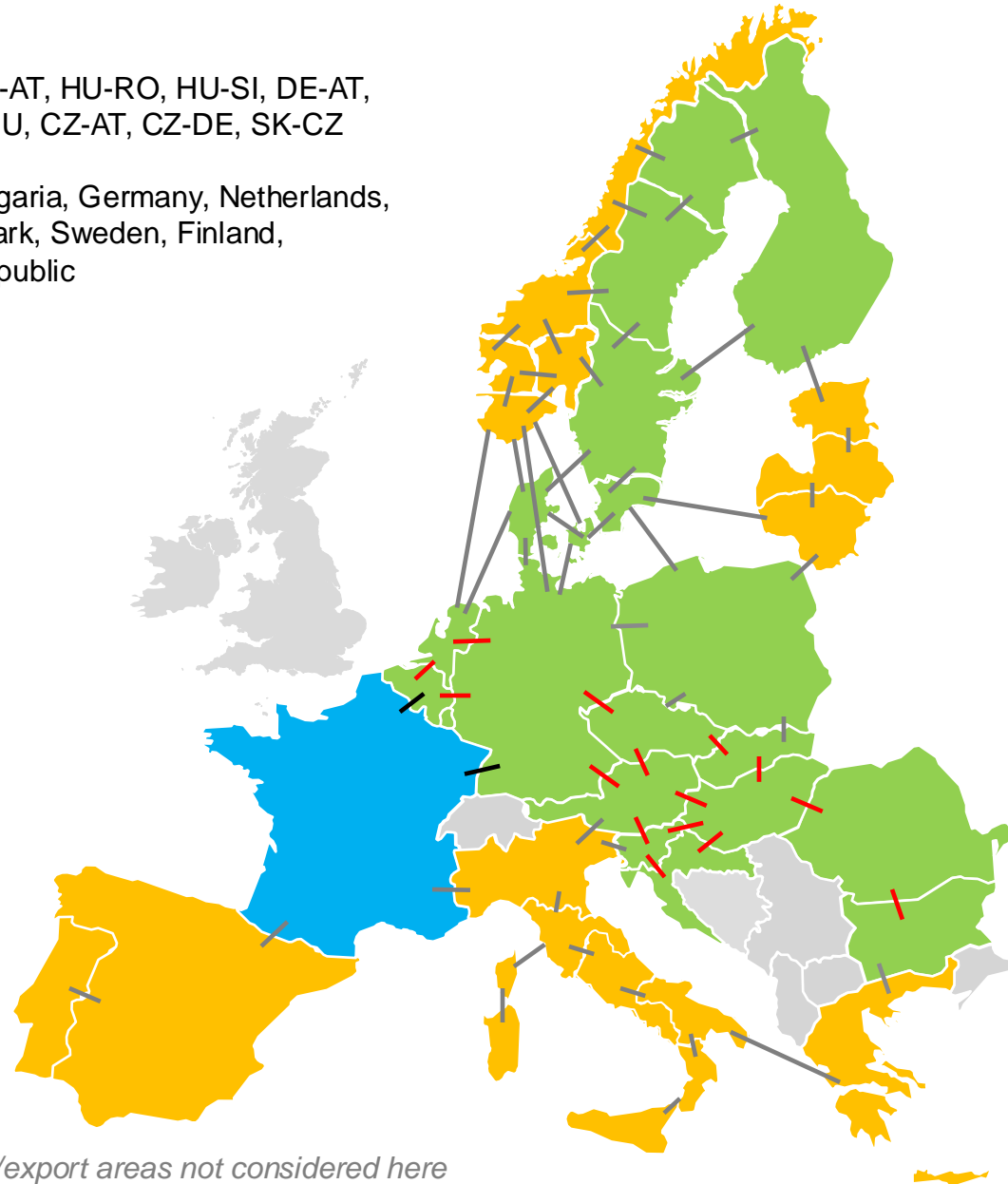
*** Due to technical limitation of the HVDC cable, 60min MTU/OTU will be maintained.

15 min MTU in ID (CT and IDA)

Live

Borders: DE-BE, BE-NL, DE-NL, HU-AT, HU-RO, HU-SI, DE-AT, SI-AT, SK-HU, RO-BG, SI-HR, HR-HU, CZ-AT, CZ-DE, SK-CZ

Bidding zones: Austria, Belgium, Bulgaria, Germany, Netherlands, Romania, Slovakia, Slovenia, Denmark, Sweden, Finland, Croatia, Hungary, Poland, Czech Republic



- Border on 15 min MTU
- Border on 30 min MTU
- Border on 60 min MTU

- BZ on 15 min MTU
- BZ on 30 min MTU
- BZ on 60 min MTU
- Not part of SIDC coupling

note: import/export areas not considered here

15 min MTU in ID (CT and IDA)

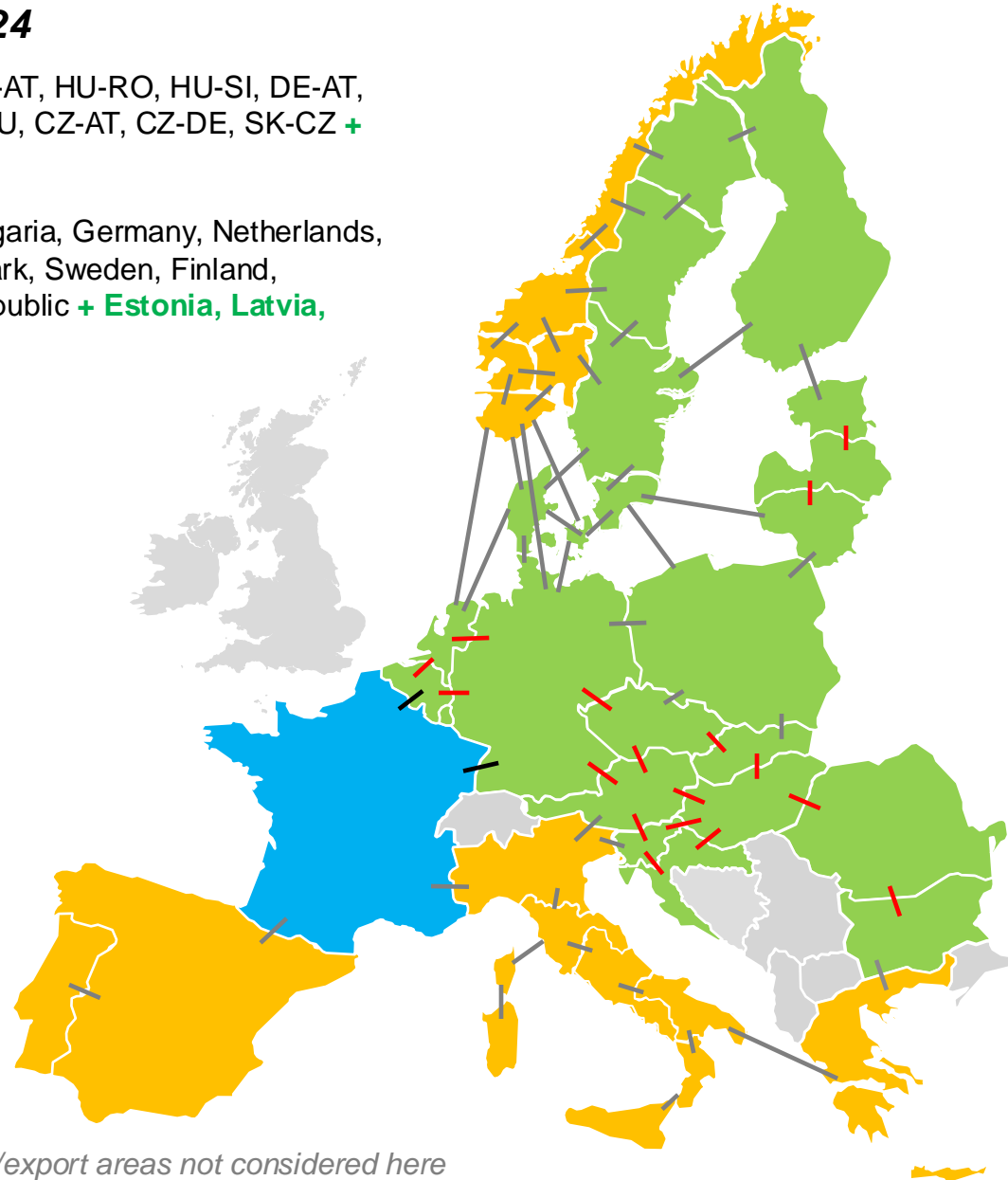
Planned go-live: 16/12/2024

Borders: DE-BE, BE-NL, DE-NL, HU-AT, HU-RO, HU-SI, DE-AT, SI-AT, SK-HU, RO-BG, SI-HR, HR-HU, CZ-AT, CZ-DE, SK-CZ + **LV-LT, EE-LV**

Bidding zones: Austria, Belgium, Bulgaria, Germany, Netherlands, Romania, Slovakia, Slovenia, Denmark, Sweden, Finland, Croatia, Hungary, Poland, Czech Republic + **Estonia, Latvia, Lithuania**

— Border on 15 min MTU
 — Border on 30 min MTU
 — Border on 60 min MTU

■ BZ on 15 min MTU
 ■ BZ on 30 min MTU
 ■ BZ on 60 min MTU
 ■ Not part of SIDC coupling



note: import/export areas not considered here

15 min MTU in ID (CT and IDA)

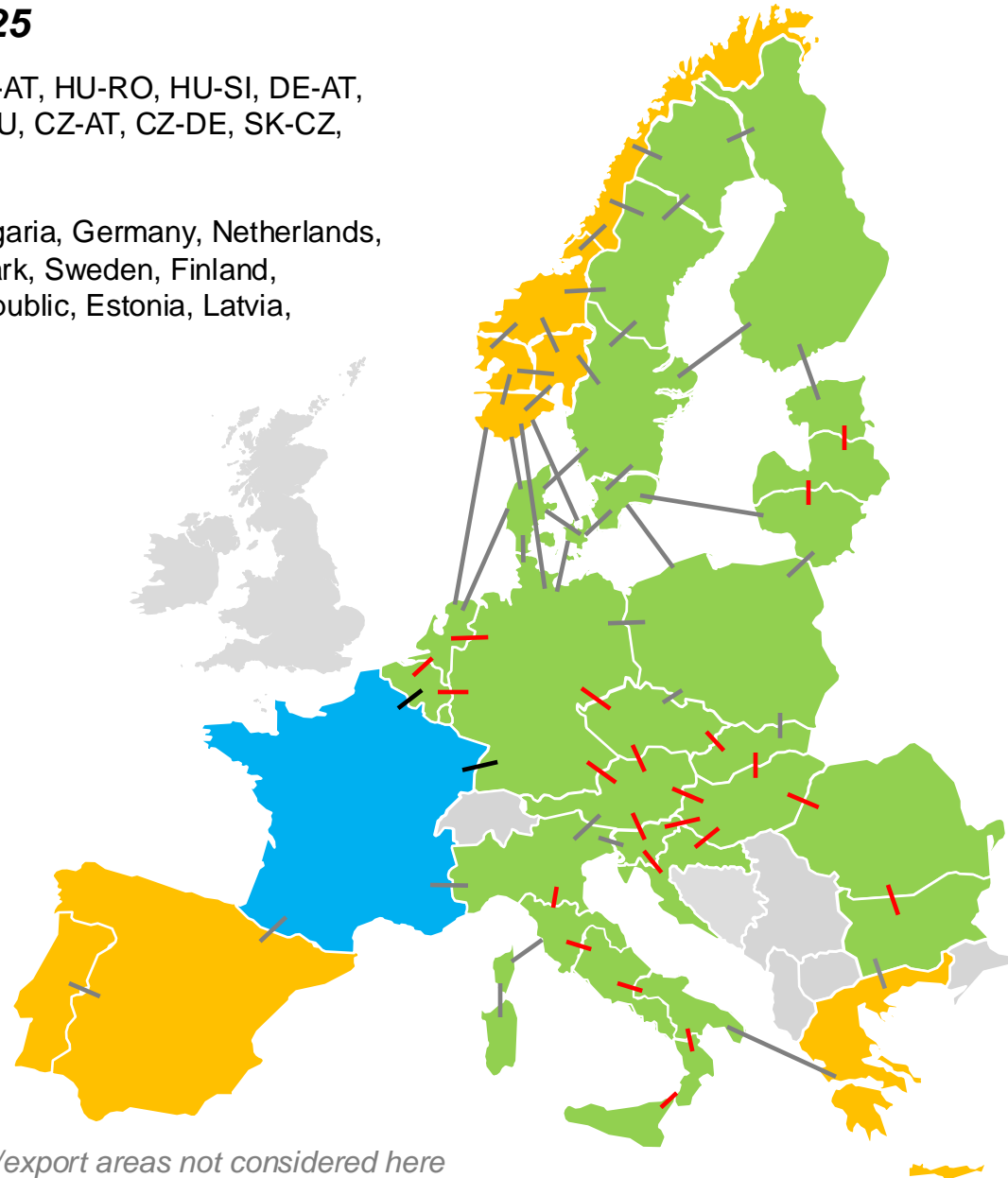
Planned go-live: 01/01/2025

Borders: DE-BE, BE-NL, DE-NL, HU-AT, HU-RO, HU-SI, DE-AT, SI-AT, SK-HU, RO-BG, SI-HR, HR-HU, CZ-AT, CZ-DE, SK-CZ, LV-LT, EE-LV + **IT internal borders**

Bidding zones: Austria, Belgium, Bulgaria, Germany, Netherlands, Romania, Slovakia, Slovenia, Denmark, Sweden, Finland, Croatia, Hungary, Poland, Czech Republic, Estonia, Latvia, Lithuania + **Italy**

— Border on 15 min MTU
 — Border on 30 min MTU
 — Border on 60 min MTU

■ BZ on 15 min MTU
 ■ BZ on 30 min MTU
 ■ BZ on 60 min MTU
 ■ Not part of SIDC coupling



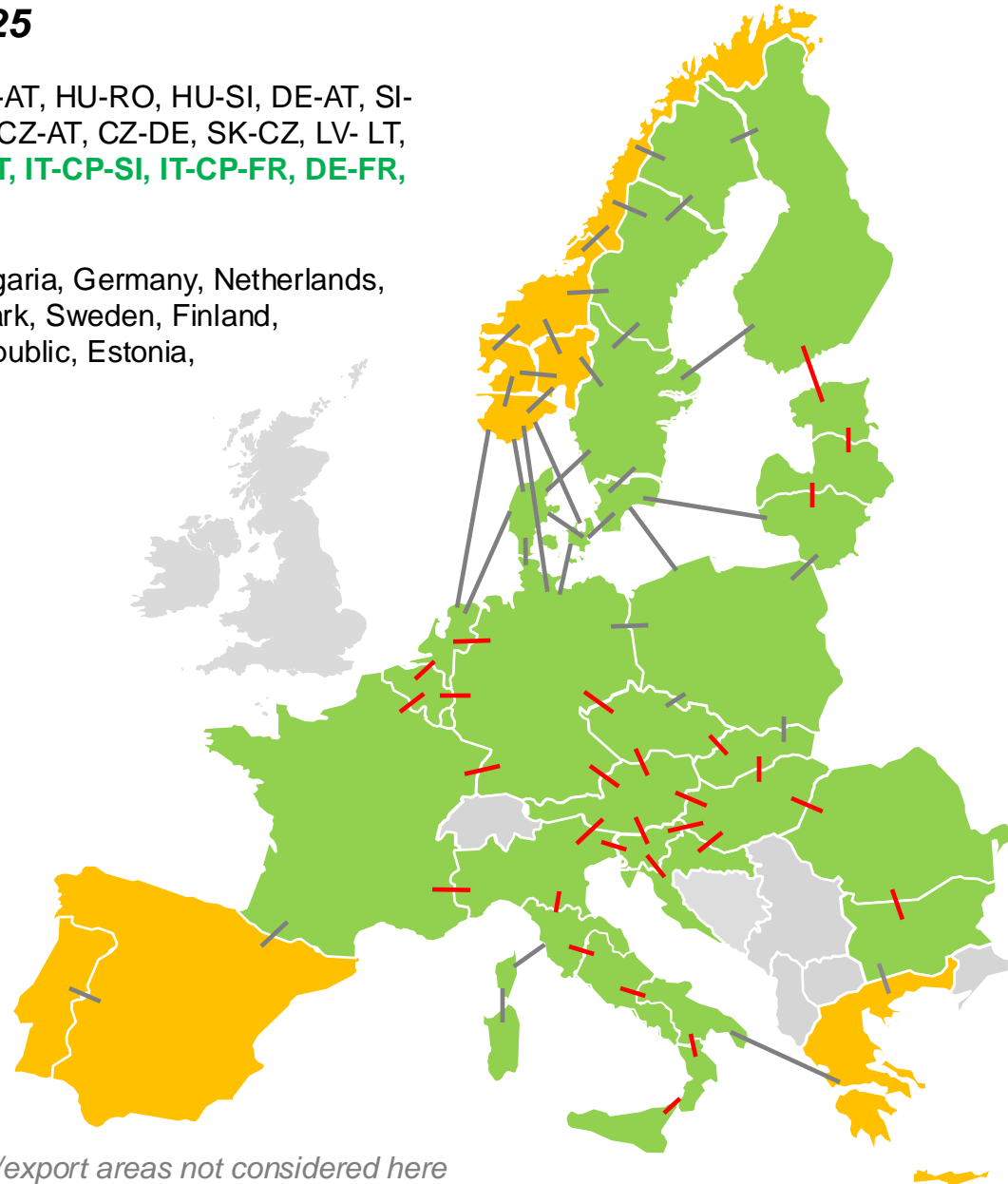
note: import/export areas not considered here

15 min MTU in ID (CT and IDA)

Planned go-live: 22/01/2025

Borders: DE-BE, BE-NL, DE-NL, HU-AT, HU-RO, HU-SI, DE-AT, SI-AT, SK-HU, RO-BG, SI-HR, HR-HU, CZ-AT, CZ-DE, SK-CZ, LV-LT, EE-LV, IT internal borders + **IT-CP-AT, IT-CP-SI, IT-CP-FR, DE-FR, FR-BE, EE-FI**

Bidding zones: Austria, Belgium, Bulgaria, Germany, Netherlands, Romania, Slovakia, Slovenia, Denmark, Sweden, Finland, Croatia, Hungary, Poland, Czech Republic, Estonia, Latvia, Lithuania, Italy + **France**



- Border on 15 min MTU
- Border on 30 min MTU
- Border on 60 min MTU

- BZ on 15 min MTU
- BZ on 30 min MTU
- BZ on 60 min MTU
- Not part of SIDC coupling

note: import/export areas not considered here

15 min MTU in ID (CT and IDA)

Planned go-live: 18/03/2025

Borders: DE-BE, BE-NL, DE-NL, HU-AT, HU-RO, HU-SI, DE-AT, SI-AT, SK-HU, RO-BG, SI-HR, HR-HU, CZ-AT, CZ-DE, SK-CZ, LV-LT, EE-LV, IT internal borders, IT-CP-AT, IT-CP-SI, IT-CP-FR, DE-FR, FR-BE, EE-FI + **FR-ES***, **ES-PT***, **Nordic borders****, **Polish borders**

Bidding zones: Austria, Belgium, Bulgaria, Germany, Netherlands, Romania, Slovakia, Slovenia, Denmark, Sweden, Finland, Croatia, Hungary, Poland, Czech Republic, Estonia, Latvia, Lithuania, Italy, France + **Spain***, **Portugal***, **Norway**

* Subject to IBERIAN NRA formal approval

** Except Estlink – On 15minMTU since 22/01/2025



- Border on 15 min MTU
- Border on 30 min MTU
- Border on 60 min MTU

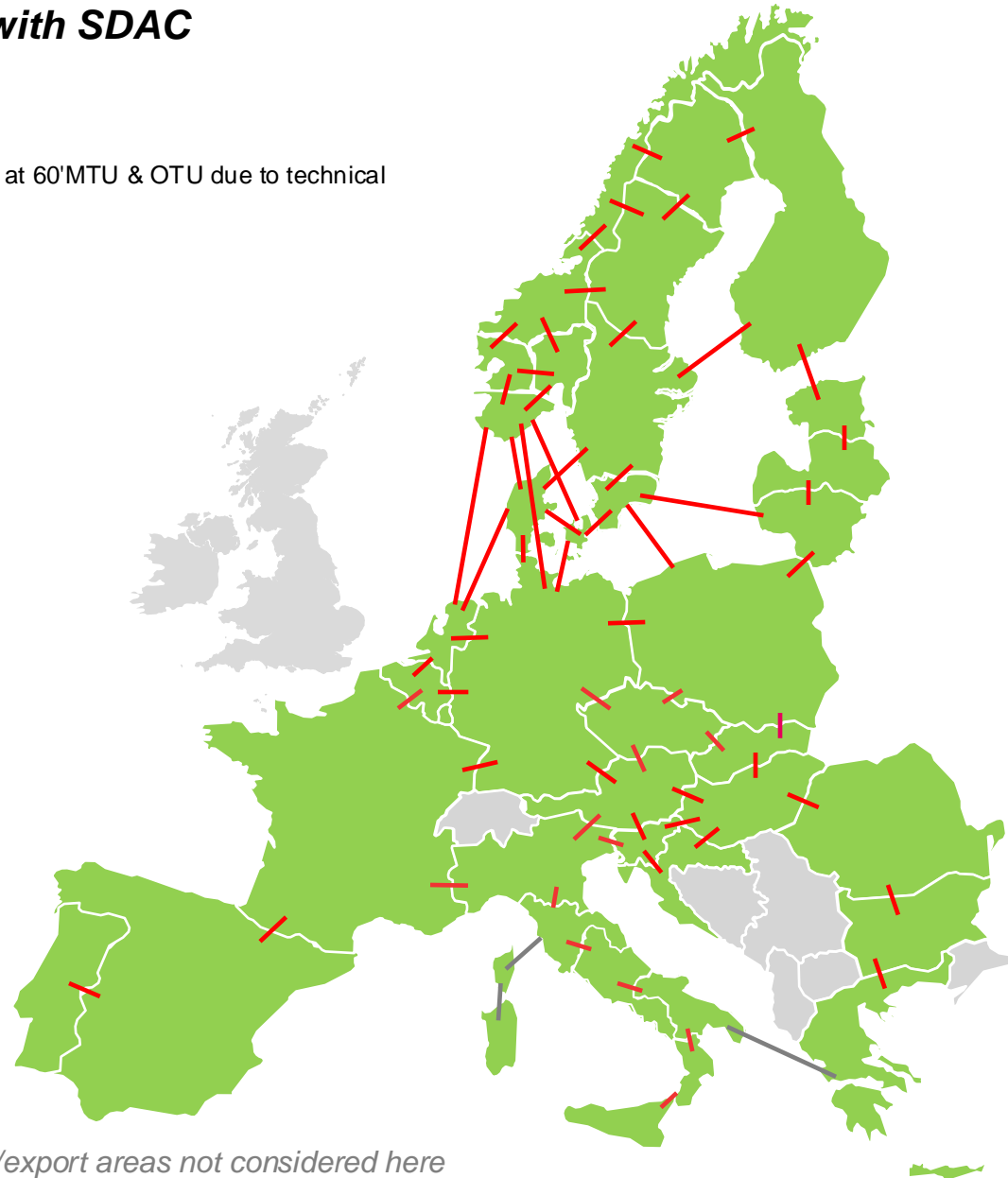
- BZ on 15 min MTU
- BZ on 30 min MTU
- BZ on 60 min MTU
- Not part of SIDC coupling

note: import/export areas not considered here

15 min MTU in ID (CT and IDA) *Planned go-live: Aligned with SDAC*

All borders & bidding zones*

*IT-GR-GR & IT-SARD-IT CODC will remain at 60' MTU & OTU due to technical limitation of the HVDC cable.

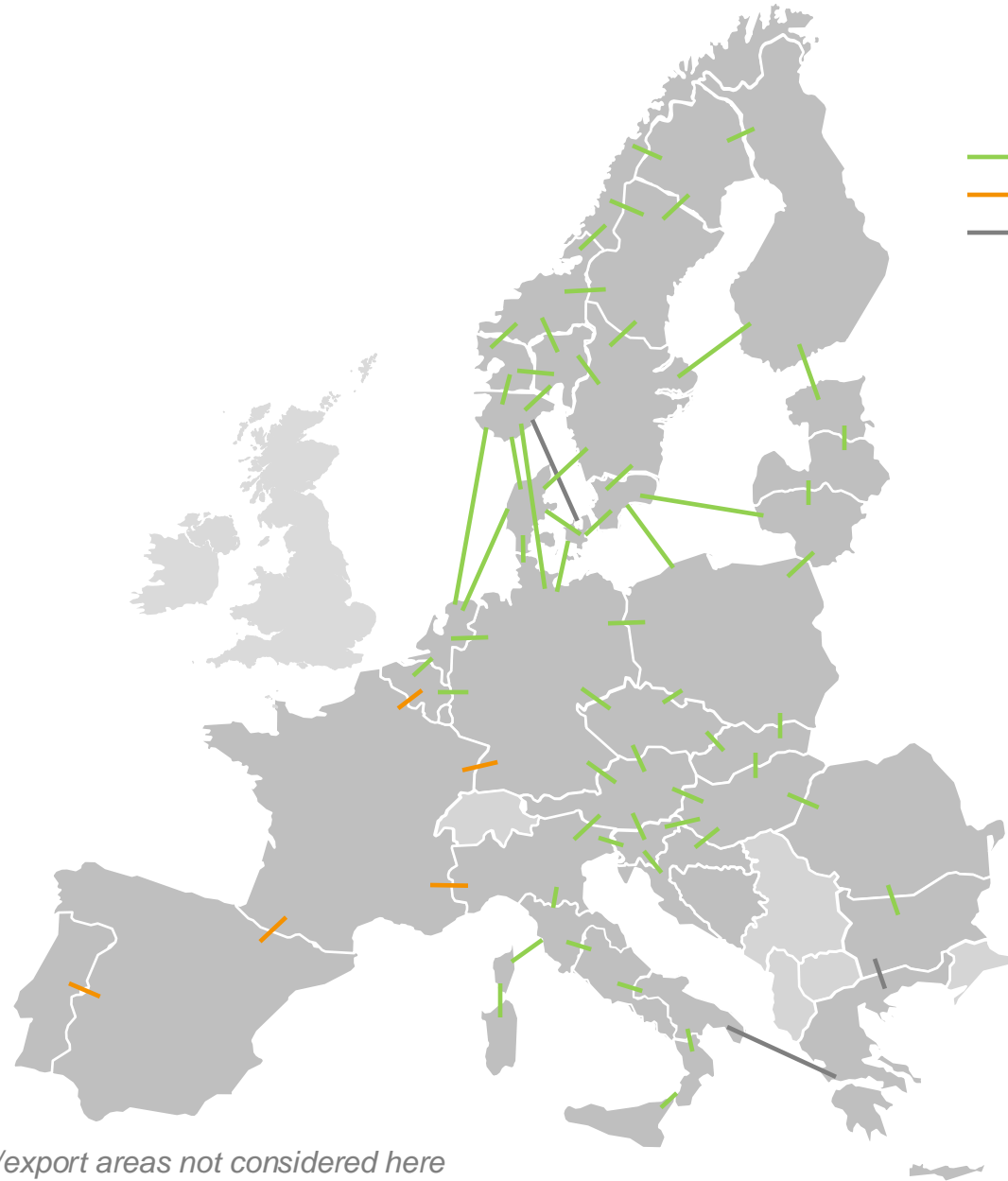


- Border on 15 min MTU
- Border on 30 min MTU
- Border on 60 min MTU

- BZ on 15 min MTU
- BZ on 30 min MTU
- BZ on 60 min MTU
- Not part of SIDC coupling

note: import/export areas not considered here

15 min OTU vs. MTU in ID (CT and IDA) *Working assumption*



- 15' OTU at the same time as 15' MTU on Border
- 15' OTU after MTU 15' MTU on Border
- N/A

For the explanation of the OTU, please refer to the answer provided in the minutes from 20 October 2023 MCCG available on ENTSO-E website [[LINK](#)] and NEMO Committee website [[LINK](#)].

note: import/export areas not considered here

Update on the SDAC & SIDC 15minMTU implementation planning Overview of Nordic CCR specific implementations

It was brought to the attention of the Nordic 15' MTU&IDA Steering Committee that in Nordic CCR, there is a high density of implementations from S2 2024 to S1 2025, with some exceptions and nuances.

Therefore, the Nordic 15' MTU&IDA SC would like to present an overview of the main implementations related to Nordic CCR borders, which can be found on the next slide.

Update on the SDAC & SIDC 15minMTU implementation planning

Overview of Nordic-specific implementations on Nordic CCR Internal Borders

Party	ISP (period)	15'MTU product intrazonal	mFRR EAM	ISP (price)	15'MTU products cross-border	Transition to 96 Gate Closures	SDAC 15'MTU
Fingrid	Implemented	Implemented	Jan/Feb 2025 TBC on 01/11/24	18/03/2025	18/03/2025	18/03/2025	Together with SDAC big-bang go-live
Energinet	Implemented	Implemented					
SVK	Implemented	Implemented					
Statnett	18/03/2025	18/03/2025					

Nordic borders	As-is value	New ramping value	Aligned with go-live
FI – SE3	N/A	600 MW/MTU	Nordic DA FB
DK1 – SE3	600 MW/MTU	300 MW/MTU	mFRR EAM
DK1 – NO2	450 MW/MTU	225 MW/MTU	mFRR EAM
DK1 – DK2	600 MW/MTU	300 MW/MTU	mFRR EAM
Lineset NO2-NO2A	900 MW/MTU	450 MW/MTU	SIDC 15'MTU wave 5

- **European functional testing was started in October 2024** with most NEMOs and TSOs, including regional CCR providers. Initial testing encountered **several critical issues** in the first weeks. For several processes, testing with workarounds was needed due systems not yet ready.
- There is a risk of TSOs and NEMOs not being able to **declare the technical readiness for testing with MPs at the end of March 2025 after the completion of the functional and procedural testing activities**. The technical readiness shall allow the centrally coordinated member testing phase to start.
- Concerning the necessary technical information for Market Participants to test with the individual NEMOs, **it can be confirmed that some NEMOs already have provided this necessary information, and the remaining NEMOs will do so shortly**. NEMOs will come back on the request of a checklist of Member associations.
- Members associations have been in continuous engagement with NEMOs and TSOs, with the focus since summer 2024 on properly evaluating the time needed by market participants to tests, either on individual NEMO trading platforms or within the centrally coordinated SDAC member testing phase. **Some time will also be reserved between the completion of the member testing phase and the SDAC go-live itself**. This last phase will be necessary to dedicate time to the go-live preparation.
- **A new go-live date, after March 2025, will be communicated in December 2024 together with dates for central member testing**, during MESC. MCSC considers organizing a dedicated SDAC 15 min go-live MCCG session (to be confirmed).

Update on the SDAC & SIDC 15minMTU implementation planning

Difference between *coupled* and *individual NEMOs'* members tests

		Test type	
		<i>Individual NEMOs'</i> member tests	<i>Coupled</i> member tests
Comparison factor	Objectives	<ul style="list-style-type: none"> Verify market participants' readiness Verify connectivity Verify individual NEMO MP interface 	<ul style="list-style-type: none"> Promote new functionalities and procedures towards market participants Allow market participants to train their operators and finalize adaptation of their systems
	Scope	<ul style="list-style-type: none"> Market participants trading systems connected to NEMOs Local trading systems (LTS) 	<ul style="list-style-type: none"> Trading systems under market coupling conditions Procedural changes for market participants To be noted: test scenarios should have been validated in advance as part of planning validation (in June 2024).
	Parties	<ul style="list-style-type: none"> Organizer: each NEMO Participants: individual NEMOs' market participant 	<ul style="list-style-type: none"> Organizer: 15min Test Group Participants: NEMOs MPs and relevant parties
	Timeline	<ul style="list-style-type: none"> ~1-6 months before go-live / ~1-6 months of tests 	<ul style="list-style-type: none"> Depends on scenarios, see following slides (under discussion)

Note: 15minTG will coordinate the coupled member tests

Update on the SDAC & SIDC 15minMTU implementation planning

SDAC Joint (E2E) Member test

Background:

- Upon receiving feedback from the Market Participants, SDAC NEMOs and TSOs has assessed the scenarios that can be included in the joint end-to-end member test centrally organized.
- Some of the scenarios requested were not part of the earlier member test campaigns; therefore, SDAC NEMOs and TSOs are **investigating the feasibility of their execution.**

15minTG scenario assessment

Scenario name	Feasibility assessment / clarification needed
Normal day (with nominations)	Feasibility OK
Full decoupling with shadow auction (with nominations)	Feasibility OK
Partial decoupling of a NEMO and potentially a subset of SDAC borders with shadow auction	Feasibility OK
Second calculation due to bidding error management	Feasibility OK 15minTG agrees to perform this scenario during member tests: MPs requested to test this specific production situation prior SDAC 15min MTU Go-live, adding this to member tests optimizes the number of test phases organized.
DST LCC	Feasibility OK To be noted: a DST SCC will be organized after 15min MTU go-live, prior to DST SCC in production.
Opposite cross-border flows within the same hour	Organization under investigation. To trigger this scenario, NEMOs would need to overrule MPs' OBK for 1 hour period and on one (or several borders). It means that potentially, OBKs entered by MPs would be different than the ones used for calculation (hence the result wouldn't be coherent). Could MP clarify what part of the process they would like to test (files, GUI, market messages, etc.)?
Max / min price reached (OBK to be discussed)	
No liquidity in a given time resolution (extreme cases on types of product offered: only a few bids of 15min, no bids of 1h)	Organization under investigation. To trigger this scenario, NEMOs would need to overrule MPs' OBK. It means that potentially, OBKs entered by MPs would be different than the ones used for calculation (hence the result wouldn't be coherent). Could MP clarify what part of the process they would like to test (files, GUI, market messages, etc.)?
Max number of blocks	
Curtailed day	Organization under investigation. Curtailed would likely be triggered when max/min prices are reached, hence the two could be performed together.

Update on the SDAC & SIDC 15minMTU implementation planning

Overview of scenarios executed in preceding test phases

Test scenarios	FIT	SIT	Acceptance
Normal day	X	X	X
Normal day - back up communication mode / back up tools	X	X	
SDAC / IDA full chain	X		
Partial decoupling for CZC reason	X	X	
Partial decoupling for NEMO reasons (including a Nordic regional coupling)	X	X	
Missing PL AC (specific to Core region)	X	X	
Daylight Saving Time	X		
Full decoupling	X		
Full decoupling with shadow auctions	X	X	
OBK with 60' only	X		
Performance of PMB: high number of OBK multi-resolution	X		
X-borders flow in opposite direction in quarters with same hour	X		
Second auction with max peak price detection		X	
Portfolio allocations issues with new version of OBK		X	

Planning

- **SDAC NEMOs and TSOs will allocate enough time to test all the joint member test scenarios** as well as adding contingency, allowing to execute any scenario if need be. Those scenarios are **still being aligned** between MCCG Conveners and relevant MCSC groups. First discussions led to an indicative testing period of 6 weeks (without consideration of public holidays).
- Below, an **illustrative planning is shown that includes the requested scenarios**. It should be noted that the order of scenarios is subject to revision.

SDAC 15minTG Member testing

Scenario / Testing day	1	2	3	4			5	6	7	8			9	10	11	12			13	14	15	16			17	18	19	20			21	22	23	24			
Normal day (with nominations)																																					
Full decoupling with shadow auction (with nominations)																																					
Partial decoupling of a NEMO and potentially a subset of SDAC borders with sha																																					
Second calculation due to bidding error management																																					
Max / min price reached (OBK to be discussed)																																					
Curtailment day																																					
Opposite cross-border flows within the same hour																																					
DST LCC																																					
DST LCC contingency (or DST SCC)																																					
No liquidity in a given time resolution (extreme cases on types of product offered: only a few bids of 15min, no bids of 1h)																																					
Max number of blocks																																					
Re-execution																																					
System updates																																					

Key	
	Friday / Weekend / Public Holiday
	Testing / related activity

- In the December update of the planning, SDAC NEMOs and TSOs will reflect also the allocated time requested between end of coupled MTs and go-live (between 3 weeks and 2 months).

Update on the SDAC & SIDC 15minMTU implementation planning

SDAC Joint (E2E) Member test

Input capacity data

- NEMOs and TSOs are able to **provide capacity data for D-7** (trading day D-7 compared to the execution day) for Member tests. This will ensure that production-like capacity data is used.

Timings for member tests

- SDAC NEMOs and TSOs prefer OBK GCT at 14:00 CE(S)T, with 13:00 CE(S)T for full decoupling scenarios.

Update on the SDAC & SIDC 15minMTU implementation planning

SDAC Individual NEMO member testing

Background:

- Before the joint member test, each NEMO will organise individual tests with their respective MPs to verify the functioning of their systems.
- MPs have been raising concerns about the length of this period and its criticality given the system upgrades required on their end to enable trading in 15minMTU resolution.

An overview of the individual NEMO member testing for SDAC 15’MTU transition can be found below:

NEMO	Individual member testing scheduled	High-level testing details
BSP	Jan/Feb 2025 - End before Central Member Testing	Verifying connectivity, Market Participants' readiness and all LTS functionalities from MP perspective
BRM	December 2024 until multi-MTU go-live	NEMO – client testing activities
EPEX	Jan/Feb 2025 - End before Central Member Testing	Verifying connectivity, Market Participants' readiness and all LTS functionalities from MP perspective
EXAA	Dec 2024 / Jan 2025 - End before Central Member Testing	Verifying connectivity, Market Participants' readiness and all LTS functionalities from MP perspective
CROPEX	December 2024 until multi-MTU go-live	NEMO – client testing activities
GME	Jan/Feb 2025 - End before Central Member Testing	Verifying connectivity, Market Participants' readiness and all LTS functionalities from MP perspective
HENEX	Jan/Feb 2025 - End before Central Member Testing	Verifying connectivity, Market Participants' readiness and all LTS functionalities from MP perspective
HUPX	Jan/Feb 2025 - End before Central Member Testing	Verifying connectivity, Market Participants' readiness and all LTS functionalities from MP perspective
IBEX	December 2024 until multi-MTU go-live	NEMO – client testing activities
NORD POOL	December 2024 until multi-MTU go-live	NEMO – client testing activities
OKTE	Jan/Feb 2025 - End before Central Member Testing	Verifying connectivity, Market Participants' readiness and all LTS functionalities from MP perspective
OMIE	Since 10/07/2024 – future OMIE product typology delivery. Since 23/09/2024 until multi-MTU GL – Matching simulation.	2 days per week, on an environment with multi-MTU setup and future OMIE product typology (including SCOs and Block Orders), matching auction is simulated for Iberian MPs.
OTE	Since June 2024 – uncoordinated individual tests (testing environment available for MPs, without regular matching) Feb 2025 - coordinated testing with MPs	Detailed information (changes in framework, formats and communication) is available on OTE website here (additional information will be released there in the coming weeks and our MPs will also be individually invited to a webinar, where further details will be given)
TGE		
SEMO PX	Jan/Feb 2025 - End before Central Member Testing	Verifying connectivity, Market Participants' readiness and all LTS functionalities from MP perspective

Update on the SDAC & SIDC 15minMTU implementation planning

60' average price

- NEMOs agree to use a joint calculation method of a SDAC 60' average price for applicable as of the go-live of the SDAC 15MTU project. This average price is already technically implemented within SDAC algorithm (EUPHEMIA).
- NEMOs agree to publish locally, at least, but not limited to, a harmonized SDAC 60' average price based on the data calculated by SDAC algorithm (EUPHEMIA).

SDAC & SIDC 15min Market Time Unit (MTU)

SDAC rollback plan

Adèle Roy & Benjamin Mossot (SDAC QARM Convenors)

Q&A via **Slido.com**
Enter code: **3476292**

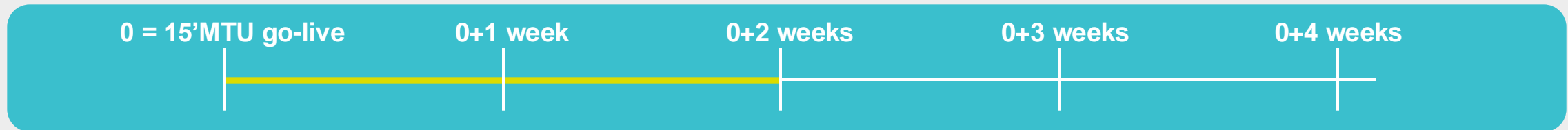


SDAC & SIDC 15min Market Time Unit (MTU)

SDAC rollback plan (1/2) – High level rollback plan

The rollback would be a switch to the configuration of systems prior to the SDAC 15'MTU go-live (hence the 60'MTU resolution). Based on experiences of past European projects, MCSC developed a proposal for the SDAC 15'MTU rollback. Below are some high-level principles:

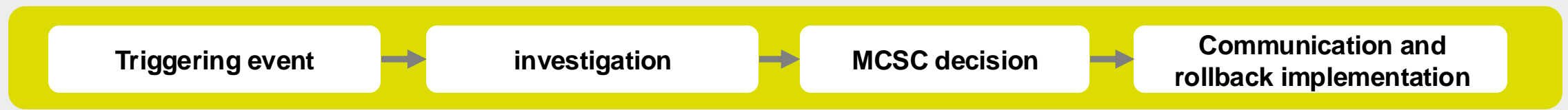
The period in which the rollback can be activated is within 2 weeks after 15'MTU go-live:



- The decommissioning of 60'MTU related systems/functionalities must not be done prior 2 weeks post go-live

Rollback validation and triggering process

- In practice, this means that the following **Rollback validation and triggering process** could be activated anytime during the 2-weeks period:



SDAC & SIDC 15min Market Time Unit (MTU)

SDAC rollback plan (2/2) – Detailed proposal on the rollback

Rollback validation process & triggering events

- The decision to apply the rollback solution shall be taken by MCSC, following a recommendation from SDAC Operational Committee (OPSCOM).
- The SDAC OPSCOM recommendation shall be based on the outcomes of the investigation, focusing on the following factors:
 - Whether the incident at hand is related to 15minMTU change in SDAC and NEMOs/TSOs/MCO assets.
 - Identification, reproduction, and root cause analysis of the incident at hand.
 - The expected time required to resolve the incident at hand.
- Such investigation will be triggered if the following criteria is met:
 - The Incident Committee has decided to **declare a full or partial decoupling** due to an incident regarding the central or regional assets (e.g. no Market Coupling Results, rejected Market Coupling Results or any other situation leading to a full or partial decoupling), **twice in a 7-day rolling period**.

Implementation

- The date of the activation (1st trading day of the rollback set-up) of the rollback will be preferably a working day to guarantee sufficient level of active participation of TSOs, NEMOs, and market participants and in order to be compliant with constraints of all parties.

Next steps:

- NEMOs and TSOs will gather the required lead-time for implementing the rollback as well as any technical impacts and blocking points.
- SDAC OPSCOM will prepare procedures in alignment with all SDAC parties.

SDAC & SIDC 15min Market Time Unit (MTU)

Questions and feedback from MPs

Selim Boussetta (MCCG MPs Convenor)

Thomas Van Den Broucke, Pierre Milon (MCCG Convenors)

Q&A via **Slido.com**
Enter code: **3476292**



SDAC & SIDC 15min Market Time Unit (MTU)

Questions and feedback from MPs: MCSC follow-up

MCSC NEMOs and TSOs followed-up on several open points from June 2024 MCCG.

SDAC 15minMTU member testing

- MCSC NEMOs and TSOs organized several alignment calls with MPs' representatives on SDAC 15minMTU member testing.
- The majority of the open points identified by MPs in the following slides were already taken in for MCSC the planning.

Polish and Nordic BZs vs. adjacent BZBs

- In June 2024 MCCG, MPs inquired on technical limitations causing some borders (Polish and Nordic) to not switch to the final 15minMTU resolution while the two adjacent bidding zones already were using the 15minMTU.
- For the respective **Polish borders**, the explanation was provided in the MCCG #6 Q&A available on ENTSO-E [\[LINK\]](#) and NEMO Committee [\[LINK\]](#) websites.
- Regarding the **Nordic borders**, the situation can be explained by TSOs as follows:

"For allowing cross-border capacity to be traded with a 15-minute resolution on the border, different systems are used than for the capacity calculation within a BZ. These regional systems for cross-border capacity calculations on Nordic internal and (some) external borders will allow cross-border trading in SIDC on 15-minute resolution at a common go-live.

In addition, for allowing 15' MTU XB trades in SIDC, it needs to be possible to balance with the same granularity and also being able to operationally manage this, which will be introduced with the Nordic mFRR EAM go-live. Hence, it is at this moment not yet possible to allow 15' MTU trades on the Nordic internal & external borders, even though adjacent BZs could be operating on a 15' MTU resolution."

SDAC 15-min MTU go-live preparation

General observations

- We continue to have strong concerns over the lack of technical details provided to date by some NEMOs on the 15-min MTU implementation.
- We observe regional discrepancies between NEMOs and TSOs in their approach to shifting to 15-min MTU particularly in the sequencing of ISP/ID/DA. Notably we don't support the linking of the ID and DA go-lives in order to avoid cascading effects if SDAC go-live is delayed.

Way forward

1. We consider a **standardized and coordinated checklist between all NEMOs** is necessary. This should outline the minimum technical requirements that are needed for a go-live and keep track of its publication status among all NEMOs/TSOs.
2. NEMOs and regulatory authorities must ensure that **market participants have enough time to conduct developments on their side** once necessary information is made available.

Once all technical details are released, sufficient time must be allocated :

- for MPs development : we are at the end of the development chain and are dependent on the availability of sufficient information to undertake our own developments... but they are no less important, and their proper conduct is necessary for a safe go-live.
- for testing (both member testing and “real” conditions testing)

3. So far, **MPs are still missing an official confirmation of the go-live date**: the current level of information gives little trust in the TSOs/NEMOs' planning. MPs have a hard time scheduling their own developments, suppliers don't know when to start updating their retail contracts and notifying consumers of the change (legal obligation in some areas) etc.

SDAC go-live date

Annex – Tentative checklist framework

Individual NEMO AP						
NEMOs	NEMOs communications and offers			Trading interface changes	Test environnement (and differences with production environnement)	TSOs-NEMOs alignment (ISP-SIDC15 go-lives)
	Official public communication	Products (MTUs, smart block, limits)	Indices (calculation, rounding) publication (when, for how long?)			
NEMO A						
NEMO B						
...						

All NEMOs AP		
Euphemia description	Product definition - SDAC products methodology	Official go-live date
100% 1/8/2024	100% 26/9/2024	?

- Are NEMOs going to publish indices, including a 30' and 60' index - for each BZ? for each NEMO?
- How are NEMOs going to calculate those indices - weighted average or simple average?
- Will the indices be made publicly available on NEMO websites or only on market data files? If not, why not.



SDAC 15-min MTU go-live preparation

Focus on testing

Development time required before Member Testing

Once technical details are shared, MPs will need time to make the necessary developments to be ready for member testing.

Duration and expectations during Member Testing (1/2)

Organisation wise: the testing period can then be optimised using a 2-step approach:

- Technical tests for platform access : considering current deadlines, this step should begin no later than December 2024.
 - individual NEMOs testing should be organised to avoid overlaps so that MPs active in multiple markets can test on all relevant platforms. This sequential approach requires careful planning.
- Full process testing (~4 to 6 weeks): at least one month is needed to develop results processing tools after receiving the first results file.

In total, testing would certainly require more than a month, as any necessary fixes would have to be implemented and then re-tested with NEMOs – this assumes that NEMOs are available and responsive to MPs queries and feedback.

SDAC 15-min MTU go-live preparation

Focus on testing

Duration and expectations during Member Testing (2/2)

Content-wise:

- Testing should cover individual + coupled testing, feedback, results integration, nominations and handling constraints
- The focus of the tests doesn't need to be on simulating 'real' auctions. The primary goal is to verify that submissions function correctly and that results can be processed automatically. Dummy results can be sufficient for this purpose. If the process is not successful, results should still be made available after each auction.
- Tests should not focus solely on problem cases as it was the case for SIDC but rather include stable, normal auctions, with problem scenarios included in moderation.
- Proposed scenarios (non-exhaustive list) : normal days, 2 DST-changeover days, decoupling day, curtailment day, second auction/calculation caused by exceeding the price limit, scenario with max numbers of blocks, no liquidity in a given time resolution (e.g. extreme cases on types of products offered: only a few bids of 15 minutes, no bids of 1 hour, or only bids of 1 hours),

Feedback integration time required after Member Testing

The time needed to integrate feedback from the tests is difficult to estimate: it depends on technical specifications that will only be confirmed after the Member Testing phase and the issues encountered during the tests. Current estimates is somewhere between 3 weeks and 2 months.

Overall, preference would be to develop on an ongoing basis and therefore to have a longer test phase that is stable.

SDAC decoupling events

MCSC reflection and MPs' feedback

Luiza Holban-Fediuc & Bálint Csuri (SDAC OPSCOM Chairs)

Selim Boussetta (MCCG MPs Convenor)

Q&A via **Slido.com**
Enter code: **3476292**



SDAC decoupling events

Partial decoupling incident of 25/06: MCSC reflection

Background:

- On **25/06 (delivery date 26/06)**, an incident took place that led to a partial decoupling of some areas in Europe caused by local issues at EPEX SPOT preventing the order books from EPEX SPOT for the Core region and for the Nordics to be submitted before the operational deadline. Following regional agreements, in the Nordic also the remaining NEMO (EMCO-Nordic) was decoupled.
- Market participants were properly informed in time. Correct execution of partial decoupling allowed NEMOs and TSOs to not trigger Full Decoupling.
- Capacity allocation could be secured on all SDAC borders: Explicitly (shadow auctions) on NO2-NL, DK1-NL, NO2-DE, DK1-DE, DK2-DE borders. Implicitly and in line with regional fallback procedures on other SDAC borders.
- Robust organization of market coupling ensured market results computation and publication despite major operational challenges. The final SDAC market coupling results for the remaining coupled parties were published at 14:09 CEST. The common coupling system worked as expected and ensured the coupling of the remaining part of SDAC topology.
- Due to the same local issue, IDA3 on June 25 at 10:00 CEST was cancelled for all participating NEMOs, as per SIDC IDAs decoupling procedures. Instead, the subsequent IDA1 on June 25 at 15:00 CEST was performed. EPEX SPOT and Nord Pool (only Nordic bidding zones) were partially decoupled in advance from IDA1, following the SIDC IDA market coupling procedures. For the rest of the remaining regions and coupled NEMOs (including Nord Pool and its Core BZs) IDA 1 on June 25 at 15:00 CEST was successfully performed.
- Market situation turned back to normal in the next SDAC coupling session.

The full SDAC report on the partial decoupling incident of 25/06 can be found on the [NEMO Committee](#) and [ENTSO-E](#) websites

Measures taken and next steps:

- NEMOs and TSOs strive to **improve the communication process during an incident**. The aim is to **ensure a successful application of the fallback measures in case of future decouplings**, including a **smoother process for running Shadow Auctions for the decoupled interconnectors**.
- Some **regional procedures** have already been **improved**.
- Moreover, a **deeper understanding of the specific decoupling scenarios** will be fostered by **increasing the awareness on these fallback procedures and scenarios**.

SDAC decoupling events

Partial decoupling incident of 24/07: MCSC reflection

Background:

- On **24/07 (delivery date 25/07)** an incident took place that led to a partial decoupling of the Czech Republic caused by local issues at the OTE Local Trading System (LTS) preventing the order books from OTE to be submitted before the operational deadline. Hence, OTE-CZ was decoupled at 13:05 CEST in line with the relevant procedures.
- Market participants were properly informed in time. Correct execution of partial decoupling allowed NEMOs and TSOs to not trigger Full Decoupling.
- The Shadow Auctions and the operational process for performing them worked as expected and were performed by JAO according to the operational procedures.
- The robust organization of market coupling worked as expected and ensured the coupling of the remaining parts of the SDAC topology with adapted capacity for the internal Core borders. As the partial decoupling involved a bidding zone located within a flow-based region, an additional fallback procedure had to be applied to allocate the capacity of the non-decoupled Core CCR internal borders with ATC instead of using flow-based parameters. The final SDAC market coupling results were published around 14:15 CEST.
- Due to the same local issue, OTE was also decoupled in advance from two IDAs: IDA 3 at 10:00 CEST, and from IDA 1 at 15:00 CEST on the day of the SDAC decoupling.
- Market situation turned back to normal in the next SDAC coupling session.

The full SDAC report on the partial decoupling incident of 24/07 can be found on the [NEMO Committee](#) and [ENTSO-E](#) websites

Measures taken and next steps:

- **OTE and their IT provider will implement further deployment testing of third-party hardware / software updates.**
- However, as this issue was caused by third party hardware / software fault, it cannot be fully prevented for the future. The issue would occur in the same manner independently from the MCO setup (e.g., for single NEMO arrangement) as it was caused by a local issue at OTE.

SDAC decoupling events

Further improvements in sight: MCSC reflection

- In response to the recent decoupling events, MCSC NEMOs and TSOs have initiated a temporary expert group to investigate potential improvements in the communication process during and after decoupling situations.
- Composed of NEMOs, TSOs and JAO, the expert group met between 25/09 and 18/10 with the following outcomes:

 **11 pain points** were identified in the communication process.

 A **list of solutions** that address those pain points was prepared.

 These solutions will be proposed for **MCSC validation in Q4 2024**.

SDAC Decoupling incidents

MPs' feedback: Problem statement

- Due to “a local technical issue”, one of the NEMOs (EPEX) was not able to participate in the market coupling on June 25th 2024, for delivery date June 26th. This led to a partial decoupling where EPEX ran local auctions with no access to XB transmission capacity, in parallel to the coupled auction comprising all other NEMOs and the XB transmission capacity.
- This event had several adverse consequences:
 - The **communication was confusing**: with very frequent (not always crystal clear) messages from the concerned NEMO in direct contradictions with messages from JAO
 - It led to **two prices in several bidding zones**: this can be problematic for:
 - the settlement of contracts indexed on one or the other prices
 - the settlement of LTTRs : the remuneration of LTTR is based on the SDAC price but some MPs can be hedged with the NEMO that is decoupled and hence, are not capturing the SDAC price
 - all the other policy instruments indexed on the SDAC price (RES-E subsidies, CfDs, etc.)
 - Market participants **lacked visibility on the whole market to adjust their dispatch schedules**. They had to rely fully on the intraday market once the picture was clearer, which can be challenging especially for dispatch schedules of technologies with longer ramping periods.
- Post incident, there are still missing elements in the incident reports: details on the technical issues; reaction and measures taken from an IT perspective; availability of back-up systems; suggestions to avoid such incidents and their consequences.

SDAC Decoupling incidents

MPs' feedback: Way forward

1. Giving market coupling the best chance to succeed

Priority should be given to finding solutions/improvements to avoid that a decoupling takes place. This covers (non exhaustive list):

- Considering **moving the TSO nomination deadlines**, allowing the SDAC process to run longer (only in decoupling situations, not in “normal days”). This would allow reducing the risk of decoupling by giving more time to the NEMO in trouble to fix the problem. This is similar to the situation in Nordic region where the SDAC can be extended until 20:00, giving more time to perform a regional coupling.

Questions : would it have been useful on past decoupling sessions ? Is it possible to know whether (and how much) more time would allow solving the issue? What is the point for Core TSO to maintain the nomination deadlines at current timings while nominations will likely be off target?

- Investigating **improvements to be made to NEMO IT processes and tools** that led/could lead to technical issues
Questions : which systems were faulty ? Can IT processes and communication channels be built differently for more robustness ?
- Reinforcing the **detection of erroneous bids**, somehow related to the suppression of 2nd auction and its replacement with a 2nd calculation.

2. Investigating remedies to avoid two prices in case of decoupling

Regardless of efforts invested in giving the best chances for market coupling to succeed, decoupling will still happen. Discussions should take place to see what is the best way forward (see next slide)

3. Making communication clear and harmonised in case of decoupling

Communication during the event should be improved: the messages were confusing, overwhelming in number, and sometimes in contradiction with each other. NEMOs and JAO need to coordinate on the issuance of urgent market messages, ensuring consistency and clarity.

SDAC Decoupling incidents

MPs' feedback: When decoupling still takes place, what could the procedures be?

- Three objectives could be pursued here : → **Price**: avoid having 2 different prices in a given bidding zone (where MNAs are in place)
→ **Volumes**: seeking to allow market participants to dispatch the right schedules
→ **Cross-border capacity**: seeking to allocate capacity in the most optimised manner
- Possible solutions :

Solutions	Single price	Schedules	Cross-border capacity
Current framework (local auction in parallel of coupled auction)	No	Yes, but local schedules are likely off target	Market coupling, but XB capacity does not take account of transactions in the local auction
No local auction – Only the coupled NEMO makes the price	Yes	No, at least not for all market participants	Market coupling, but XB capacity does not take account of missing transaction from excluded NEMO
One local auctions with all local order books (including non-failing NEMOs)	Yes	Yes, but schedules can be off target	Explicit XB capacity allocation, where market participants can bid knowing all transactions (implicit allocation only in ID)
No decoupling – E.g. by considering a D-2 order book or reference days order books	Yes	Yes, but schedules can be off target	Market coupling but XB capacity are allocated on possibly off-target OBs
... others ?			

There is no obvious perfect solution, market participants are still discussing recommendations – and request an inclusive dialogue with the NEMOs, TSOs and NRAs.

Seventh Market Coupling Consultative Group meeting

COFFEE BREAK

8 November 2024

Q&A via **Slido.com**
Enter code: **3476292**



SIDC Intraday Auctions (IDAs)

First months of IDA operations: MCSC and MPs

Dalila Garcia Notario & Martim Stilwell (SIDC OPSCOM Chairs)

Selim Boussetta (MCCG MPs Convenor)

Q&A via [Slido.com](https://www.slido.com)
Enter code: **3476292**



SIDC Intraday Auctions (IDAs)

First months of IDA operations: MCSC

Updates and Points of Attention

- Since IDA Go-Live on 13/06/2024, 422 IDA auctions have been performed of which **410 sessions have been carried out satisfactorily**, publishing the results to the market participants on time, resulting in **IDA availability rate of 97.16%** until 31/10/2024. Twelve IDA sessions have been cancelled due to local/technical issues.
- Twelve partial decoupling cases (considering Automatic Partial decoupling (five cases) and Partial Decoupling in advance (seven cases) of various parties have taken place since the IDA go-live. Each case is investigated by SIDC OPSCOM, and mitigating measures are applied either on local level or as process improvement centrally to improve operational robustness.
- SIDC OPSCOM is continuously monitoring and analysing each incident to assure no reoccurring cases and implementation of process / procedural improvements (when applicable).

Published IDA Weekly Reports* are available on ENTSO-E [\[LINK\]](#) & NEMO Committee [\[LINK\]](#) websites.

* For the explanation of the types of incidents mentioned in the Reports, please refer to the Annex 1.

SIDC Intraday Auctions (IDAs)

First months of IDA operations: MCSC

In two and a half months of operations, IDA market managed generally, approximately 600 millions of MWh of energy – considering both supply and demand (with a total of 27 millions of cleared MWh).

Months	Total Energy (MWh)	Total Cleared Energy (MWh)
June*	116.416.516,17	5.392.568,50
July	220.053.175,23	10.503.225,82
August	256.426.629,65	11.388.680,59
TOTAL	592.896.321,05	27.284.474,91

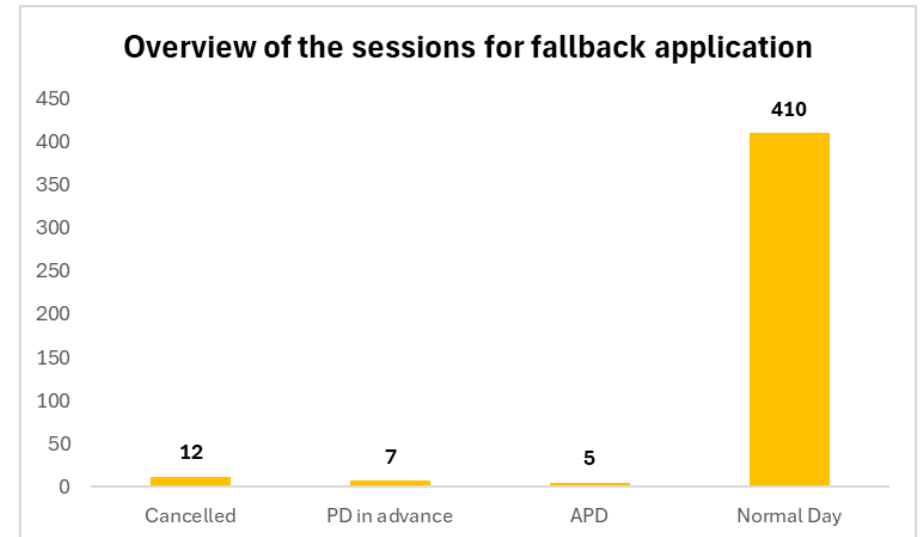
Slight increment of offered energy from July to August can be noticed, which also corresponds to a small increasing of cleared energy.

Out of **422 sessions** run in the observed period (from delivery 14th of June – date of Go Live – to 31st of October), **24 of them were affected by fallback procedures:**

- 12 cancelled,
- 7 affected by Partial Decoupling in advance,
- 5 affected by APD (Automatic Partial Decoupling).

Which means that:

- IDA has been working **smoothly in the 97,16 %** of the times,
- in the 3% of the cases, no results were published at all;
- in the 3% of the cases, the results were available not for all parties (the case of partial decoupling in advance can involve even only one party (or BZ).



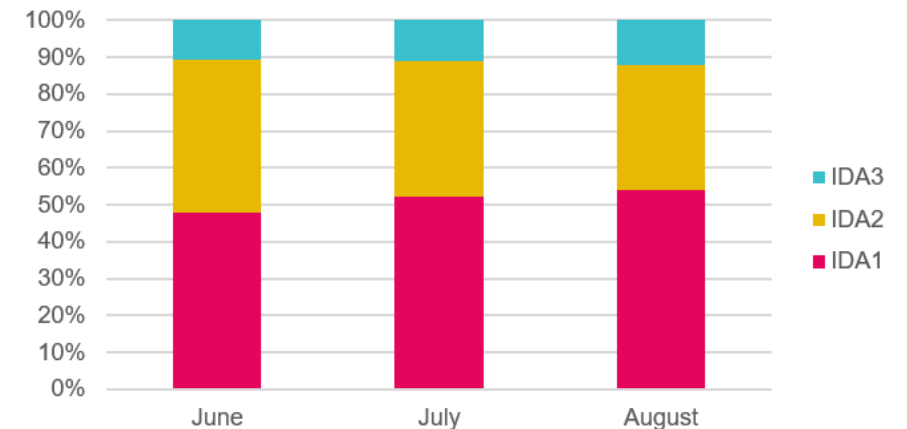
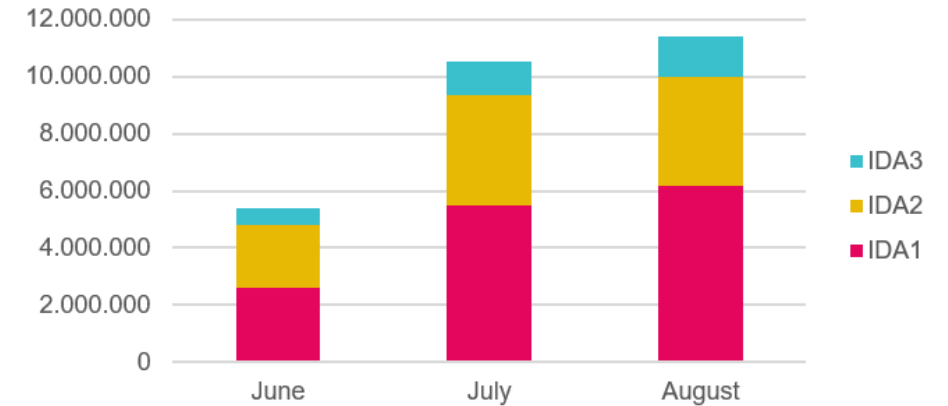
SIDC Intraday Auctions (IDAs)

First months of IDA operations: MCSC

Giving a closer look to the available data:

- The cleared volume per month is increasing for each of the IDA (having in mind of course IDA3 manages half of the contracts)

- While the shares among the 3 auctions, for each of the month can be considered quite stable, with a slight change in August where we can observe IDA2 slightly lagging behind the other two auctions

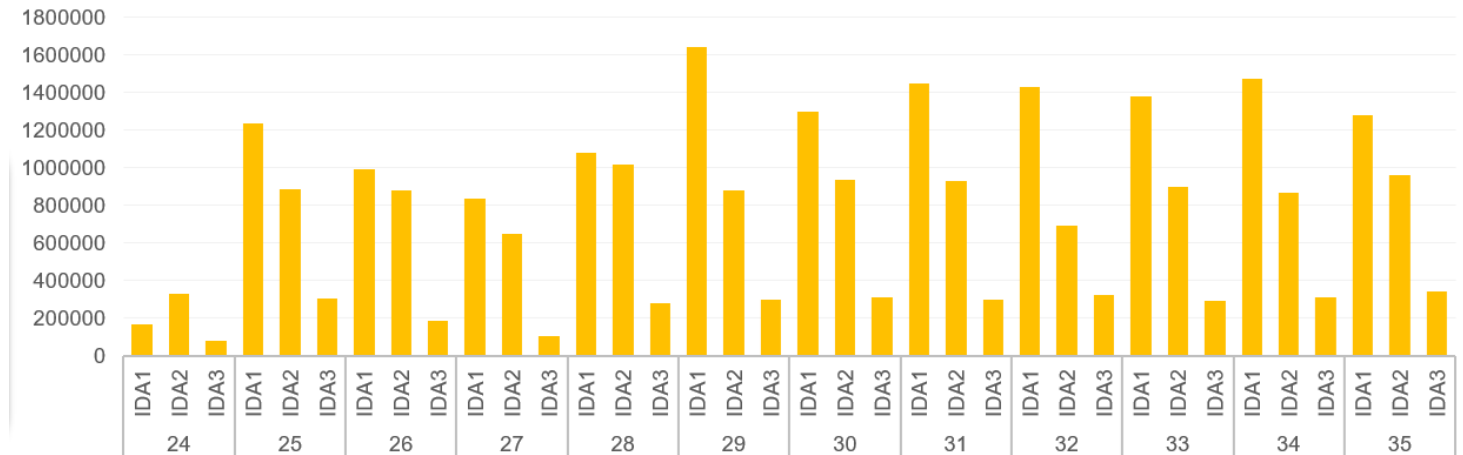


SIDC Intraday Auctions (IDAs)

First months of IDA operations: MCSC

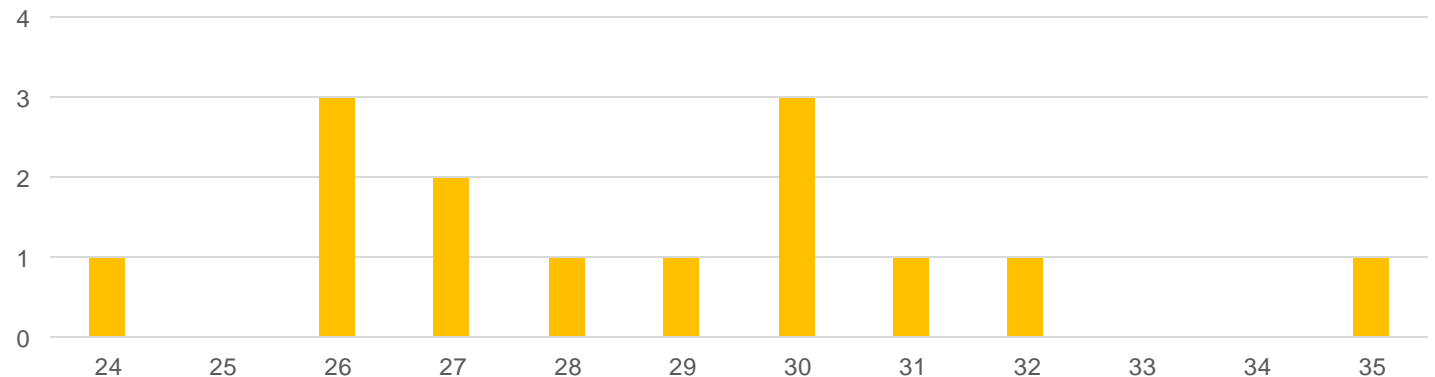
The weekly data overview shows offered and cleared volume over each of the weeks since Go Live, for each IDA session, with indication of fallback events occurrence:

- The highest level of cleared volume was reached during IDA1 sessions for week 29.



- The data above needs to be read in light of the weekly sessions affected by fallback.

Numbers of fallback sessions over the weeks

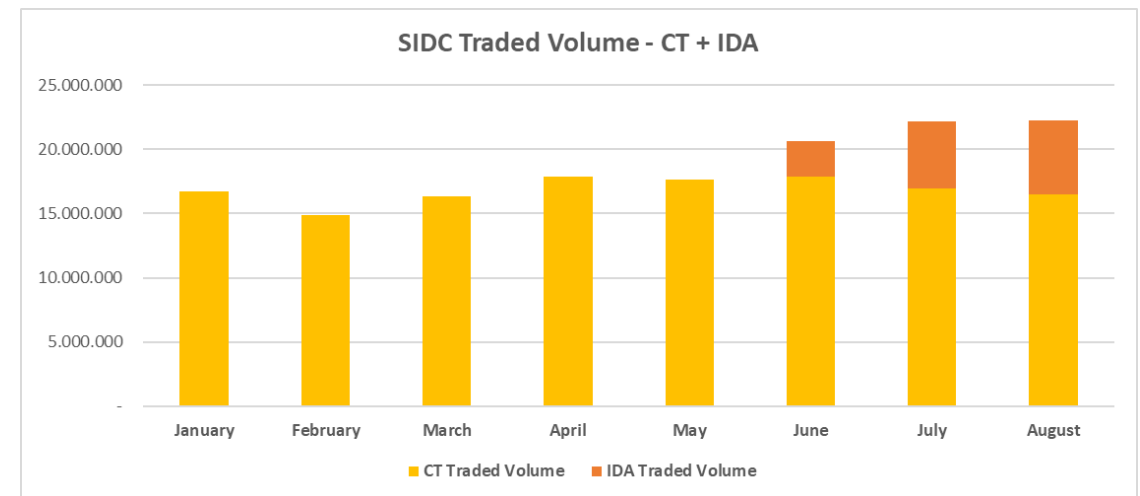


SIDC Intraday Auctions (IDAs)

First months of IDA operations: MCSC

The overall traded volume^(*) within SIDC (MWh) is growing over the summer, with the one exchanged via continuous trading slightly descending from June, letting IDA one going ahead.

Month	CT Traded Volume	IDA Traded Volume
January	16.729.284,60	
February	14.849.588,07	
March	16.314.405,07	
April	17.904.729,45	
May	17.659.513,65	
June	17.907.907,90	2.696.284,25
July	16.914.528,27	5.251.612,91
August	16.512.481,95	5.694.340,29



^(*)For this comparison, the data are adapted to those already collected and provided via AM/SH reports. Differently than the previous slide, there's just one side of the market considered for that.

SIDC Intraday Auctions (IDAs)

First months of IDA operations: MCSC

Further IDA Improvements:

- After the five months of experience with IDA in operation, **further optimization of times has already been performed to speed up the process**. Possible improvements are continued to be analysed with **seven** already implemented into production in a short period of time and **one** more is being analyzed for viability.
- **Testing activities for each improvement are vigilantly executed**, numerous test cases and analyses have been performed focusing on the performance and system integration. In terms of human resources, numerous highly qualified and multidisciplinary experts have been actively involved in the mentioned tests.
- The IDAs **procedures** are **continuously updated**, including improvements detected during the execution of IDAs in production, like optimization of times and clarification in communication, among others.

SIDC Intraday Auctions (IDAs)

First months of IDA operations: MPs

- Eurelectric and Energy Traders Europe had reservations about IDAs potentially draining liquidity from the continuous market. These concerns remain, as evidenced by feedback indicating issues with liquidity in some continuous markets, particularly in smaller markets like Belgium and the Netherlands.
- We still believe that the intraday continuous trading is the best solution to trade close to real time with more RES capacity, since it allows to react more rapidly to changes of system fundamentals (better than ID auctions).
- Technically, there have been challenges related to auction suspensions impacting continuous market operations and complexities in position closing, but we can expect that the system will become more robust over time.
- Moving forward, it is crucial to:
 - **monitor continuous ID liquidity** closely vs auctions, overall in SIDC and for each market
 - **work on shortening XBID suspension** windows (currently 40min).
 - **enhance collaboration** between TSOs to improve cross-border capacity availability

Implementation of 30-minute IDCZGCT

Update from TSOs following the initial input provided on MCCG #6

Gergő Holló (30-minute IDCZGCT SPoC)

Q&A via **Slido.com**
Enter code: **3476292**



Implementation of 30-minute IDCZGCT

Development framework



- Implementation of 30 min IntraDay Cross-Zonal Gate Closure Time¹ is a requirement set in Regulation 2024/1747.
- The work is governed by MCSC in close coordination with other TSO bodies like ENTSO-E, MARI Platform, Verification Platform, CCRs. MCSC TSOs appointed a SPoC to make coordination more efficient.
- **Introduction of 30min IDGCT requires changes in various TSO processes on local, regional and pan-EU level:**

Topic	Development need ²		
	Pan-EU	Regional	Local
Nomination and matching	✓		✓
Balancing Timeframe Capacity Calculation (BTCC)		✓	✓
MARI platform	✓		✓
Security analysis and remedial action activation		✓	✓

1) Please note that local ID market gate closure could only decrease due to this but generally will not be affected

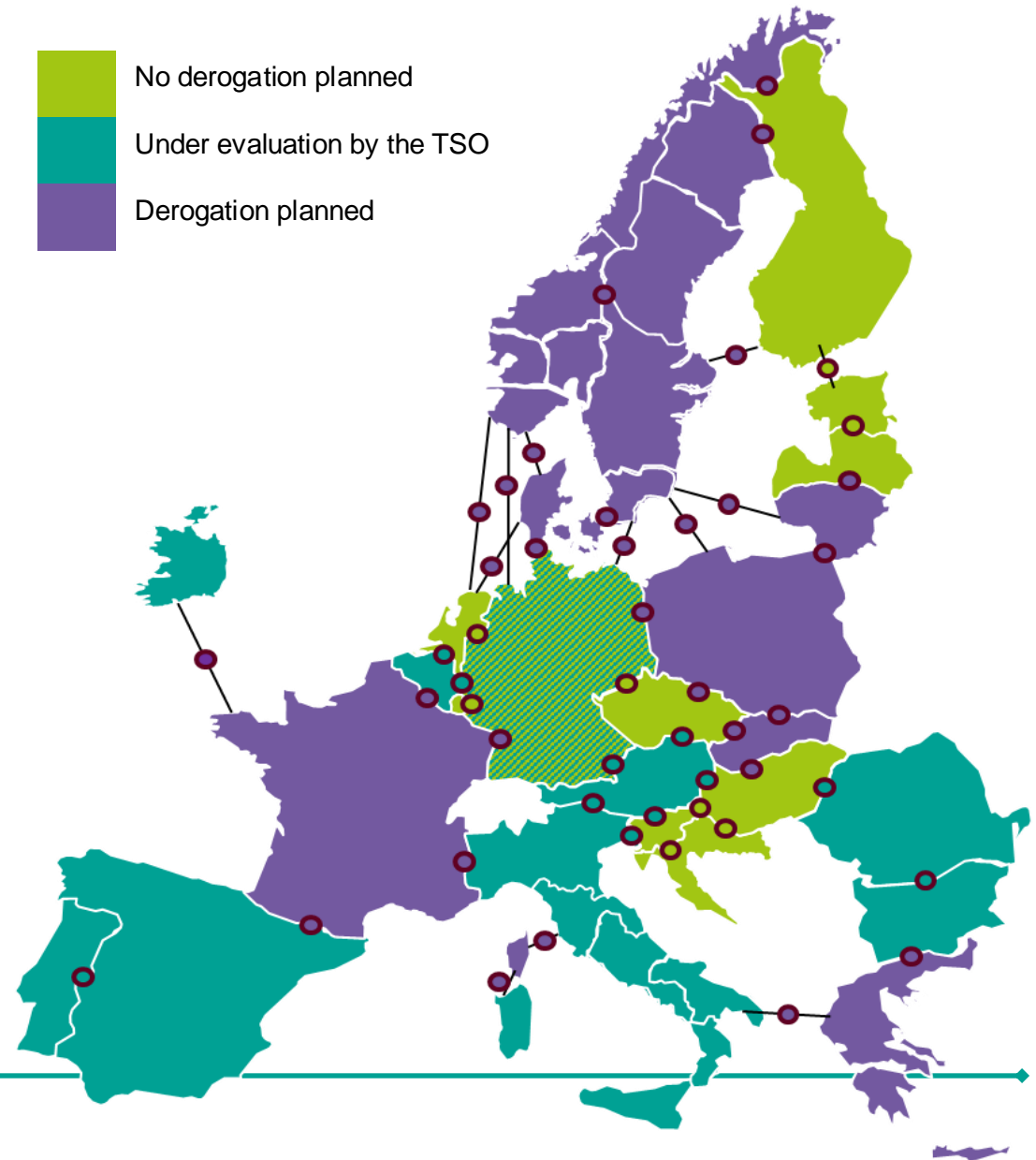
2) Discussions are ongoing on the potential solutions that can influence affected bodies/levels.

Implementation of 30-minute IDCZGCT

Derogation survey



- TSOs analysed the effects of 30min IDGCT to their processes and already identified several topics where modification will be necessary.
- Discussions are ongoing on different levels (pan-EU, regional and local) to find the optimal and futureproof solutions.
- Complexity of the analysis to be performed on local level may vary between the TSOs due to the local specificities. Therefore, there are differences in the evaluation status.
- **Finalization of the above-mentioned design solutions on pan-EU and regional level might affect the local TSO decision on derogation.**
- Regular update on the status will be provided in MCCG.

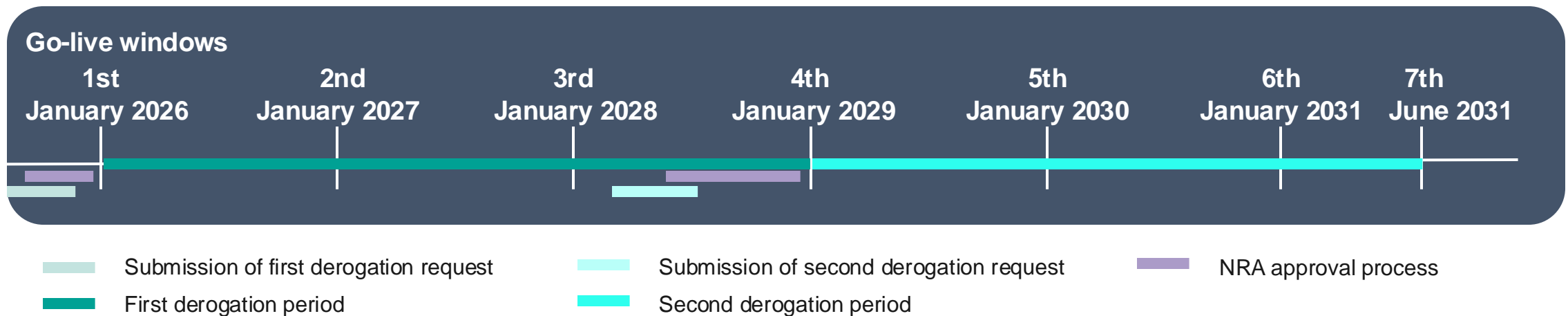


Implementation of 30-minute IDCZGCT

Derogation and go-live approach



- Only those TSOs will ask for derogation who cannot go live by January 2026, i.e. not necessary both sides of the border.*
- The longest derogation will determine the go-live of the border.
- This will lead to sequential go-live on the affected bidding zone borders.
- NRAs can provide derogation in two step until mid 2031 at the latest. There is no firm deadline for the submission of the first derogation request, local regulation will determine the time requirement for NRA approval and subsequently the submission deadline.* Deadline for submission of second derogation is 30 June 2028 according to the regulation.
- Go-live window approach is proposed to integrate this lengthy process to the MCSC roadmap.



*TSOs current understanding of the derogation process is it will be similar to the 15 min MTU implementation

Methodologies' updates and consultations

- *SDAC & SIDC product methodology*
- *Improvement of the products consultation process*
- *Algorithm methodology*
- *HMMCP methodology*

Christoforos Zoumas & Chiara Vitelli (NEMO Tech TF Convenors)

Q&A via **Slido.com**
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Update for SDAC product methodology

Hearing phase for SDAC PM concluded on 31/07. **ACER decision number 13/2024 issued on September 25.**

Main content of the Decision:

- ✓ **The methodology doesn't include provisions on PUN nor Complex Orders**, including the fallback period of 6 months, and specified in Article 6 that the (amended) terms and conditions would apply only as of the go-live of the 15' MTU in SDAC.
- ✓ **Curve orders renamed and kept among the mandatory products:** the 30' and 60' Curve Orders are now renamed into Periods Orders and the 15' Curve Orders into MTU Orders.
- ✓ Period Orders are kept among the **mandatory products** as well as the MTU ones.

Update for SIDC product methodology

Public Consultation report for the SIDC PM has been published on the NC website.

Main content of the Proposal (note that none of these amendments are essential for introducing 15minMTU in IDAs):

- ✓ **IDAs Curve Orders renamed and kept among the mandatory products:** the concept of ACER decision 13/2024 for SDAC PM was followed: the 30' and 60' Curve Orders are renamed into Periods Orders and the 15' Curve Orders into MTU Orders, both are kept among the mandatory products. Other terminology adaptations for SDAC PM also introduced for the IDAs part in SIDC PM.
- ✓ **Cross Product Matching updates for in/out of the money rules** also aligned with the relevant SDAC PM adopted text.
- ✓ **The proposed update of the methodology doesn't include Complex Orders,** replaced by Scalable Complex orders.
- ✓ **Exclusive groups block orders:** description as been aligned with the one in SDAC PM.

Improvement of the products consultation process

In June 2024 MCCG, MPs raised a question on whether a more inclusive mode of consultation on products could be envisaged. Considering this request, MCSC NEMOs propose the following **improved set-up of the products consultation process**.

Main content of the proposal:

➤ Current set-up

- The bi-yearly consultation obligation for NEMOs on available SDAC/SIDC products and order types is stemming from CACM Regulation. NEMOs are following this obligation and even more, provide consultation occasions when required by relevant needs/circumstances.
- The format of the consultation is following specific standards: NEMOs are proposing updates to the relevant SDAC/SIDC methodologies documents and annexes supported by explanatory notes. Consultation period provided is always at least for one month. In the course of the public consultation, NEMOs are collecting correspondents' feedback and provide replies via consultation report. During this process, any feedback provided that could be considered irrelevant to the public consultation is also highlighted.

➤ Possible improvements

- **In MCCG, a consultative forum, MPs can provide constructed proposals for updates and improvements** on existing and new products/order-types. Such proposals may be collected and evaluated for consideration via the standard bi-annual public consultation process or even on an ad-hoc basis where the case may be, and even as a collective input of MCCG.
- **Dedicated workshops** for discussing the NEMOs and MPs proposals could also be organized and supported by explicit material and Q&As.
- Drafting of the methodologies, however, is considered on a legal and efficiency basis a responsibility of the NEMOs (and where the case may be in coordination with the TSOs).

Algorithm methodology

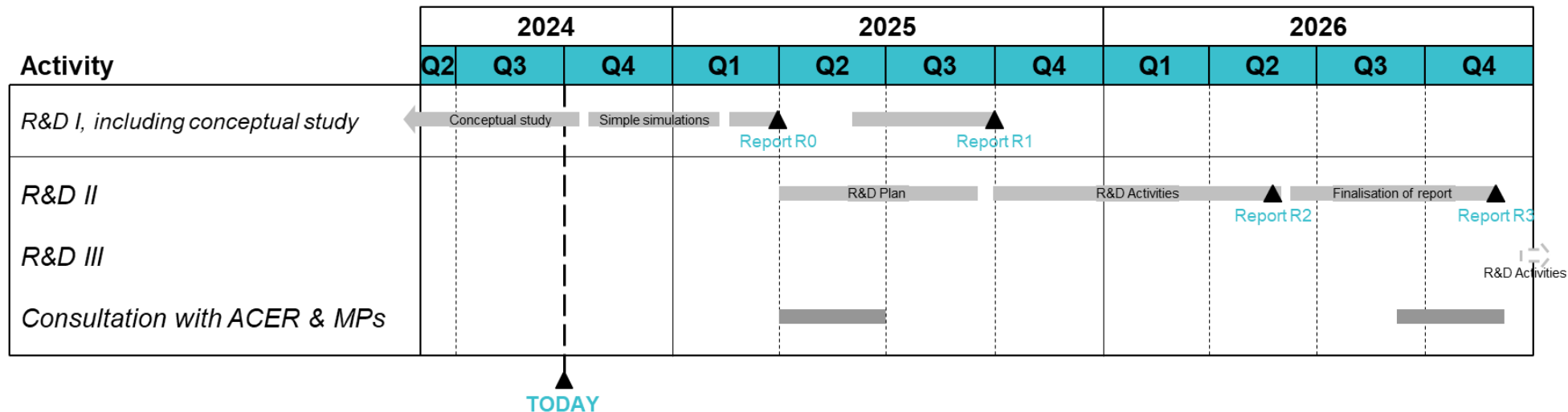
ACER Decision 11/2024 on the amendment on AM & AMM issued on 23/09/2024.

Main updates:

- Decision now concentrates on the R&D required for the development of co-optimisation in SDAC. Any direct provisions in AM or AMM to the Balancing Capacity market/products in SDAC are not included (as proposed by TSOs and NEMOs).
- Following the common meetings with TSOs and ACER's representatives at the reviewing/hearing phases the following amendment areas were identified:
 - Amending the DA Requirements Annex: for updating the DA requirements for co-optimisation.
 - Amending the R&D content: listing the areas of interest following a gradual approach as commonly proposed by NEMOs and TSOs.
 - Amending the R&D timeline: in line with the R&D content and again following a gradual step-by-step approach as commonly proposed by NEMOs and TSOs (although with slight modifications on the proposed deadlines). R&D deliverables always under public consultation and taking into consideration ACER proposals.
 - Any reference to process for amending the AM or any satellite TCMs like the SDAC PM or SPBC Methodology were removed.
 - Any reference for defining an implementation date was also removed.

Algorithm methodology

- Several sequential stages of R&D are planned before considering implementation:
- All stages with relevant Reports (R0, R1, R2), involvement of ACER and designated public consultations with MPs.



- **Current focus:** R&D I including the conceptual study for addressing R&D items (a-c)
 - TSOs and NEMOs work on R0.
 - R0 report to be delivered to ACER by end Q1-2025.

Harmonized Max-Min Clearing Prices Methodology

- **Reassessment of the methodology is foreseen in 2025** after 2 years' time from the [ACER decision 01/2023](#), according to relevant CACM terms and Article 4.4 of the HMMP Methodology.
- Market Participants will be consulted according to Article 12 of CACM Regulation: **beginning 2025**.

SDAC-SIDC Roadmap and key projects

André Estermann, Cosimo Campidoglio, Ondřej Máca (MCSC Chairs)

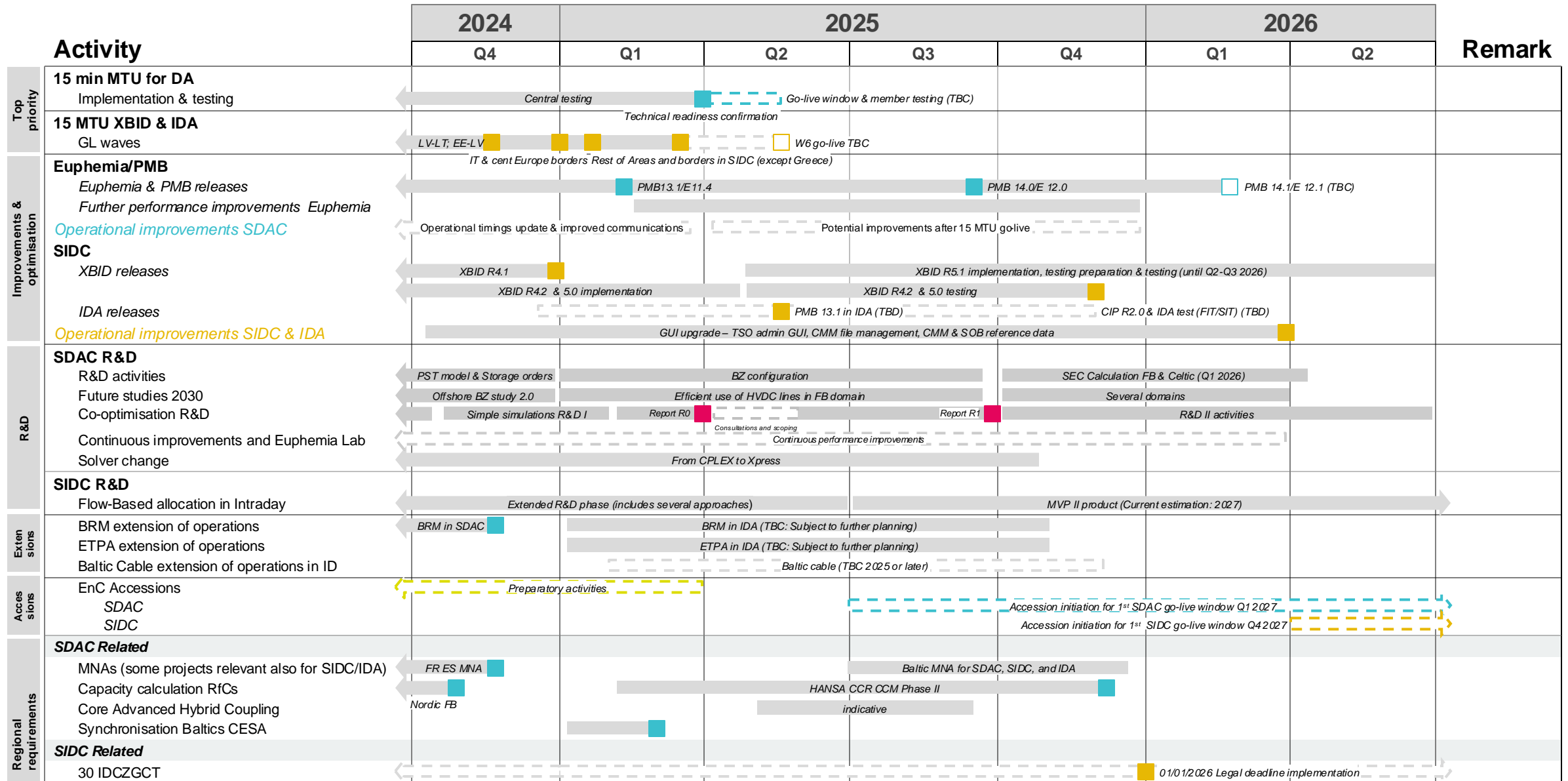
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SDAC-SIDC Roadmap and key projects



Market Coupling Steering Committee



Co-optimisation

MCSC co-optimisation R&D and survey update

Marja Eronen & Timo Suhonen (SDAC MSD Convenors)

Q&A via **Slido.com**
Enter code: **3476292**



MCSC co-optimization R&D and survey update

Survey Objectives & 11/10 Webinar

Understanding of
Co-optimisation
framework & status

Explanation of MCSC
Informal survey purpose
and content

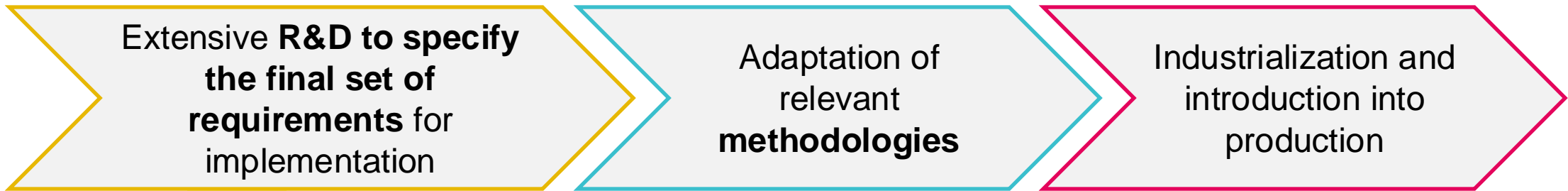
Getting valuable insights
for further development of
Co-optimisation concept


MCSC NEMOs and TSOs active in SDAC, in cooperation with ENTSO-E, are conducting an **informal survey among market participants regarding the future use of co-optimised balancing capacity and energy markets**. Survey questions are included in Annex 2.

- **Why:** To collect inputs about cost structures and their impact on bid designs and to avoid developing concepts that do not fit the market needs upon implementation.
- **When:**
 - Informal survey 07/10 - 06/11/2024 via ENSTO-E Public consultation platform [[LINK](#)]
 - Webinar 11/10
 - ✓ Material on ENTSO-E [[LINK](#)] and NC [[LINK](#)] websites
 - ✓ Recording available on ENTSO-E [[LINK](#)] and NC [[LINK](#)] YouTube channels

As a follow-up of the survey, a **workshop with MPs will be organised by NEMOs and TSOs by the end of 2024 in Brussels, at ENTSO-E**.

Implementation of Co-Optimization in SDAC Requires:

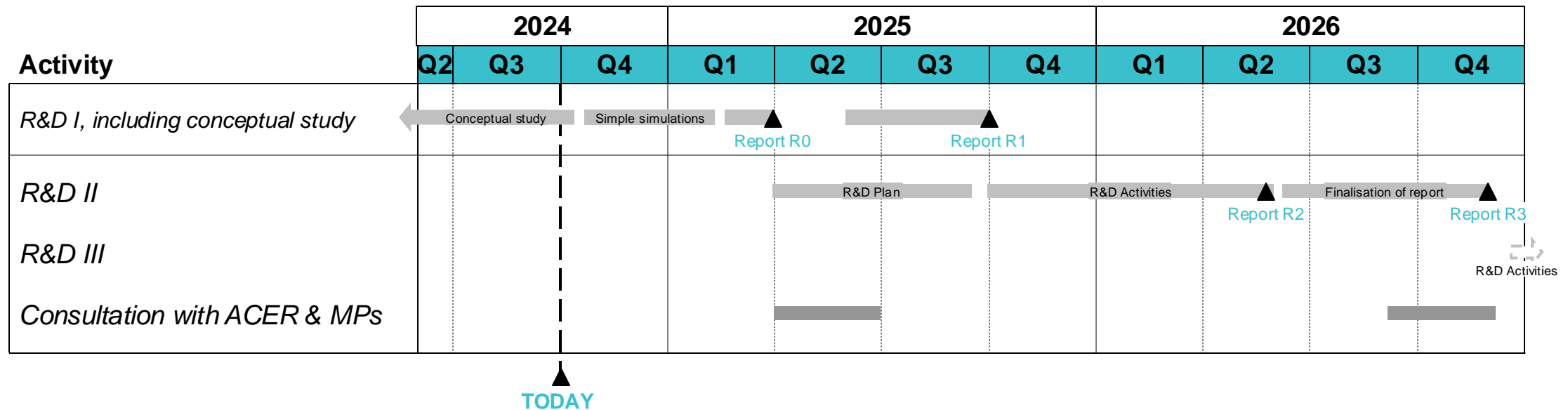


 MSCS NEMOs and TSOs initiated work on the **conceptual study as the initial step of the R&D work** to research bidding alternatives and basic design considerations. Aim is to analyse as many impacts as possible of different models.

MCSC co-optimization R&D and survey update

Co-Optimization Timeline

Several Stages of R&D Are Planned Before implementation:



Newly approved Algorithm methodology [\[LINK\]](#) provides the basis for the introduction of co-optimisation and sets out a basic timeline for the R&D for the upcoming two years.








AOB

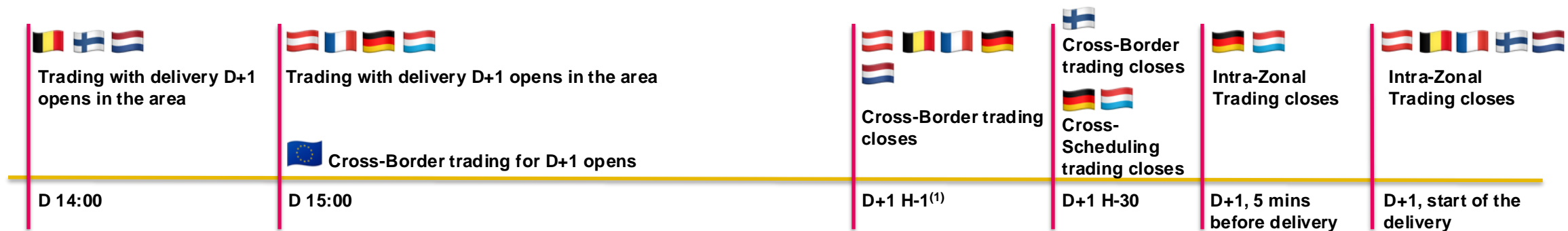
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AOB

EMD reform – Trading until the latest point in time

- Market closing times for a product (contract) define for every delivery area the latest point in time when an order for a specific product may be submitted to the single intraday coupling. Different delivery areas have different market closing times.
- The **Electricity Market Design** reform introduced, among other changes, amendments to the Regulation (EU) 2019/943 on the internal market for electricity (Electricity Regulation), **obliging NEMOs to “submit all orders for intraday products and products with same characteristics to the single intraday coupling from the single intraday coupling gate opening time until the latest point in time when intraday trading is allowed in a given bidding zone.”**
- In **July 2024**, right after the mentioned regulation entered into force, **XBID SOB configuration was changed** for the system to be compliant with the mentioned regulation, **allowing NEMOs to share their OBKs until the latest point in time possible.**
- Based on each national balancing market rules, 7 countries were subject to the configurational change^(*):
 - Austria 
 - Belgium 
 - Finland 
 - France 
 - Germany 
 - Luxemburg 
 - The Netherlands 
- Since 18th of July 2024, the schedule in Operations is set as can be seen below.



Note: In DE, the intra-zonal trading closes 5min before delivery, not at delivery, as per DE TSOs request.

(*) being all the others in SIDC already in line with the Regulation.

(1) Meaning with H-1 = 1 hour before the start of the delivery.

Closing remarks

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Closing remarks, further information

The minutes of the meeting will be available on the NEMO Committee and ENTSO-E website. The links will be sent out via email.

The next meeting will be scheduled in Q1 2025 (TBS); details & date will be shared soon.

SEVENTH MARKET COUPLING CONSULTATIVE GROUP WORKSHOP

THANK YOU FOR YOUR PARTICIPATION

8 NOVEMBER 2024



- **Cancellation of IDA:** Cancellation of the entire IDA for all participating NEMOs.
 - **Cause:** Issue faced prior (in advance) or during the Market Coupling Session (MCS) which doesn't allow the session to be completed successfully. In this case, no results published for any of the NEMOs. The session is cancelled in IDCT by JAO.

- **Automatic Partial Decoupling in IDA:** Removal of some NEMOs from MCS. While some NEMOs are decoupled, there are still NEMOs remaining coupled, hence, called an Automatic Partial Decoupling (APD) and not Partial Decoupling.
 - **Cause:** An issue with provision of Order Book or Network Data during the MCS. As per the design, the NEMOs that will not be decoupled, except if failing to provide the order data, are OMIE, GME and Henex. However, if they are the party having the issue, they will be removed from IDA session as well. In this case, there are results published for the NEMOs who remain coupled but not the others. Automatic Partial Decoupling will always be done during the MCS and without any action from IDA Coordinator, based on predefined parameters (time limit and list of NEMOs to be decoupled).

- **Partial Decoupling in advance in IDA:** Removal of a / some NEMOs from MCS prior to start the MCS. While a /some NEMOs are decoupled in advance, there are NEMOs coupled ready to start the MCS, hence, called a Partial Decoupling in advance and not Partial Decoupling.
 - **Cause:** A request prior to the auction such as in case of planned maintenance during the MCS or technical issues founds prior the MCS. In case of partial decoupling in advance, the IDA Coordinator is manually selecting the NEMO to be decoupled and only decoupling this NEMO (no other) based on the request of decoupling in advance.

- **Delay in results publications:** Holdup of results publication respect to normal operation publication times.
 - **Cause:** During the IDA auction an event happens that prevents the execution of the MCS under normal timings, consequently reaching the agreed time limit, results are still not published according to backup procedures.

Annex 2

MCSC co-optimization R&D and survey update - Informal Survey Questions

1. What are the name, contact details (email) and company of the respondent
2. **What assets** does your company own or operate?
 - a. Renewable generation
 - i. Wind
 - ii. Solar
 - iii. Biomass
 - iv. Other
 - b. Conventional thermal generation (Coal, gas, nuclear, etc)
 - c. Run-of-river hydro generation
 - d. Storage
 - i. Batteries
 - ii. Pumped Hydro Storage
 - iii. Hydro Storage
 - e. Industrial demand
 - f. Boilers
 - g. Heat Pump
 - h. Other , please specify
3. **Are you currently participating** in a balancing capacity market? YES/NO
4. Do you currently **see opportunities** to decrease or increase demand/production on short notice, provided this would be profitable? If your answer is no, please elaborate on the reasons.
5. In case yes:
 - Would you use a **specific asset** (e.g., battery, demand response), or a **combination of assets**? If it's a combination, what factors influence the 'shift' between different assets or technologies?
 - What characteristics or market conditions might prevent the participation of a single asset?
 - Is it possible to reserve this capacity the day before operation?

Annex 2

MCSC co-optimization R&D and survey update - Informal Survey Questions

6. **What kind of costs** would you incur by reserving, for example, 1 MW for a specific period the next day to provide balancing services to the TSO?
- For instance, reducing demand/consumption could decrease your production, but this may or may not be recoverable later. Heat can be stored, so temporarily reducing the demand of a boiler may not affect output, but could incur other costs. Please note that TSOs and NEMOs are interested in understanding the **cost structures** in the form of fixed costs (independent of the volume of offered balancing capacity) and variable costs (dependent on the volume of offered balancing capacity), **rather than specific costs in EUR** (or other currencies).
7. The simplest option, from the market design perspective, would be to use offers consisting of a volume in MW and a price in Euro/MW for one or several MTUs the next day. What additional attributes would be necessary for a balancing capacity bid in a co-optimised setup to help you optimise the utilisation of your asset(s), aside from MW(h) and Euro/MW(h)
- For example, would you need dependencies between assets, dependencies with off-takers, efficiency rates, minimum/maximum delivery time, or resting time?

Annex 2

MCSC co-optimization R&D and survey update - Informal Survey Questions

8. If activated by the TSO to deliver balancing energy in real time following the D-1 procurement of balancing capacity bid for, for example, one MTU, how would this impact your ability to deliver in the same direction (up or down) in the subsequent MTUs?
 - For instance, a battery fully charged at 2 MWh may deliver 1 MW for two hours, but then it needs to be recharged, which could lead to a violation of your balancing capacity procurement obligation. Similar constraints may pertain to other assets.
9. What would be necessary for you to consider **continuing or starting participation in future markets for balancing capacity under a co-optimised design**, assuming attractive profit opportunities exist? Which design choices (e.g., bid attributes) do you find important?
10. Additionally, please **share any ideas for a future bid design** in a co-optimisation setup that have not been covered by the questions above.
11. Would you be willing to provide additional information in a potential future interview?