

# Market Coupling Consultative Group Workshop

## SDAC 15 min MTU

**Date / Place** 14/02/2025, 10:00 – 12:00 CET, MS Teams Webinar

### Participants

**Presenters:**

- Andreas Papanaklis (MCCG TSO Convenor)
- Pierre Milon (MCCG NEMO Convenor)
- Zélie Gautier (MCCG Market Parties' Convenor)
- Adèle Roy (SDAC QARM Convenor)
- Benjamin Mossot (SDAC QARM Convenor)
- Javier Sánchez Jiménez (SDAC QARM Convenor)

**Attended participants:** 604

**Meeting presentation:** NEMO Committee website [\[LINK\]](#) and ENTSO-E website [\[LINK\]](#)

## List of Actions

No	Date	Responsible	Description	Deadline/Status
1	08/11/2024	MCSC NEMOs and TSOs	Come back with more information on the OTU implementation over borders coupled through SIDC continuous	Dec 2024 / Q1 2025 – Closed
2	08/11/2024	MCSC NEMOs and TSOs	Come back with the glossary of terms regularly used in MCCG	Dec 2024 – Closed
3	08/11/2024	MCSC NEMOs and TSOs	Inform MPs on the actual 15' implementation timeline, including testing timings	Dec 2024 – Closed
4	08/11/2024	MCSC NEMOs and TSOs	Set up a standardised and coordinated checklist between all to outline the minimum technical requirements that are needed for a go-live and keep track of its publication status among all NEMOs/TSOs	Q1 2025 – Closed
5	08/11/2024	MCSC NEMOs and TSOs	Clarify the exact 30/60 min price index calculation approach implemented by all NEMOs	Dec 2024 – Closed
6	08/11/2024	MPs	Provide feedback on the coupled member testing indicative planning and execution organization (including number of test execution, days reserved for system updates and contingency)	Dec 2024 – Closed
7	08/11/2024	MPs	Inform MCSC NEMOs and TSOs on what they would like to have tested (systems, GUI, procedures, messages, etc.) as a part of the SDAC 15'MTU MT scenarios on curtailment day, max number of blocks, no liquidity, and max/min price	Dec 2024 – Closed
8	14/02/2025	MPs	Inform MCSC NEMOs and TSOs about what additional information would they need in the Joint Member Testing Communication package	03/03/2025
9	14/02/2025	MCSC NEMOs and TSOs	Provide more detailed information on the steps to run and test cases for all scenarios planned for the Joint Member Testing in the Communication package	March 2025
10	14/02/2025	MCSC NEMOs and TSOs	Provide an updated timeline including the milestones for announcing the GO/NO-GO decision before the Joint MT and go-live GO/NO-GO decision before the go-live, as well as the publication of the Joint MT Communication package	March 2025
11	14/02/2025	MCSC NEMOs	Come back with a reasoning behind selecting a strict (arithmetic) average of 15'MTU clearing prices for 60'/30' index	Q2 2025 MCCG

## Agenda

TOPIC	PRESENTER	TIME
<b>1 Welcome &amp; Introduction</b> - Welcome, review of the agenda and open action points	Zélie Gautier, Pierre Milon, Andreas Papanaklis (MCCG Convenors)	10:00 – 10:10 (10 min)
<b>2 SDAC 15 min Market Time Unit (MTU)</b> - Update on the SDAC 15 min MTU planning & implementation - End-to-End Member Testing - Rollback - FAQs - Q&A	Adèle Roy & Benjamin Mossot (SDAC QARM Convenors)  Pierre Milon (MCCG Convenor)	10:10 – 11:40 (1 hr 30 min)
<b>3 AOB</b>		11:40 – 11:55 (15 min)
<b>4 Closure</b>	Zélie Gautier, Pierre Milon, Andreas Papanaklis (MCCG Convenors)	11:55 – 12:00 (5 min)

### 1. Welcome & Introduction

- **Q: A draft of the Spanish NRA states that the European Single Allocation Platform (SAP) will not accept nominations below 1 hour resolution. Is this correct?**
- Correct, the nominations will need to be in 60 minutes.

### 2. SDAC and SIDC 15 min Market Time Unit (MTU)

- **Q: What happens if there is a No Go at the end of March?**
- If a NO GO is decided, joint member testing organized by MCSC will be shifted, because technical readiness could not be declared. In this situation, impact on the go-live date is likely unless contingency can be absorbed (depends on the magnitude), but this point has not yet been decided.
- **Q: What will be the criteria for the second go/no go decision and when will it be taken (or when will the actual date be defined)?**
- The GO/NO-GO live decision should be declared in May before the GL. TSOs and NEMOs will get back to this point soon.
- **Q: Why will shadow auctions be in 60min? If MPs bid in 60 min (for example FR<>DE) and submit orders in 15 min, MPs risk being imbalanced (or poorly optimized)?**
- The products for shadow auctions will be in 60 min with the explicit allocation of capacity awarded in 60 min granularity. NEMOs will open new OBKs where market participants will make new bids and offers based on the capacity allocated by JAO. The nomination granularity will be disclosed in the information package to be shared towards market participants before the start of the joint member testing.
- **Q: Will the shadow auctions also be in 60 min when the rollback time window is over?**
- Yes, the shadow auctions will remain in 60 min after the rollback time window is over.
- **Q: We would like to have more info on why bidding will be in 60min and nominations in 15min for shadow auctions?**
- Fallback procedure is scarcely used. Current fallback procedure is robust and has already been proven to work in practice. This reliability is important in the event of any anomaly of the normal DA 15min MTU MCO process which in any case should be followed by IDA1. Also, due to the substantial changes to the market since the adoption of the Fallback procedure, there is an ongoing discussion on the redesign of the procedure as a whole.

- **Q: For each test scenario listed in slide 14, are there more detailed information already available with respect to test cases and steps to run?**
- More clarification can be provided in the joint member testing communication package in March 2025, ahead of the joint member testing activities. The objectives for the NEMOs and TSOs is to maximize the participation of market participants.
- **Q: Can we get clarity on the products available for cross border capacity rights, similar to the existing NEMO table? Or the confirmation that nothing will change from current set-up?**
- The products available for the cross-border capacity rights during the joint member testing and after the go-live will be reflected in the communication package to be shared with Market Parties before the start of the joint member testing.
- **Q: When we are going to receive the sample files for the changes to 15 min granularity - will we receive a notification for it or it varies for each source?**
- Each NEMO has their own APIs, trading interfaces, documentation packages, etc. Please reach out to your individual NEMO.
- **Q: It's not easy to follow the planning of go/no go decisions for tests vs. go-live, communication package, joint tests, etc. Maybe a visual timeline would be useful?**
- The joint member testing communication package is expected to be published on 17/03. The date for the announcement of the MT GO/NO-GO decision will be shared shortly. In case needed, a planning update will accompany the MT GO/NO-GO communication.
- **Q: Will the communication package be sent before the go/no go decision? You mentioned mid-March for the comm package and end March for the go/no go decision.**
- The exact planning for the announcement of the joint member testing GO/NO-GO decision is under MCSC finalization. The joint member testing communication package is expected to be published on 17/03. The SDAC 15 min MTU timeline will be updated soon.
- **Q: Will 60-minute data continue to be available alongside the new 15-minute data, or will it be discontinued?**
- The overview of which NEMOs will continue offering also 60' or even 30' Period Orders can be found in the NEMOs' coordinated checklist on the [\[NEMO Committee\]](#) website.
- **Q: What are the possible rollback triggers - is it only related to a full decoupling? How would market participants be notified in case of a possible rollback?**
- The only two situations which could act as triggers for rollback are full decoupling and partial decoupling. It is important to note that for the rollback to be triggered, the decoupling events must be related to the introduction of the 15 min MTU functionality. In case of rollback, a clear communication will be shared by MCSC as well as individual NEMOs.
- **Q: If a rollback to 60min MTU is decided, how long would this last before going back to 15min (i.e., do the systems have to be able to handle 60min even beyond 24 June)?**
- If there is a decision to launch the rollback, a new set of testing activities would have to follow. NEMOs and TSOs would have to reassess the planning. It is not a question of days.
- **Q: What would be the fallback procedure in case of decoupling? Would it be updated after the go-live?**
- Fallback regime remains the same and is not impacted by 15' implementation in SDAC. There is an ongoing debate and initiative to develop improved or new solutions, but there is no link with the 15' MTU project. It is correct that after 15' introduction, time dedicated to incident resolution slightly decreases, reinforcing the need to improve solutions.
- **Q: There has been a discussion that in some situations, 15 min MTU orders would be prioritised over 60 min Period Orders. Is such prioritisation possible and in which situations?**


- In principle, MTU Orders and Period Orders are treated identically: If an order is in-the-money, it shall be accepted (no paradoxical rejection); if an order is-out-of-the-money, it shall be rejected (no paradoxical acceptance). This behavior emerges organically from optimality conditions.
- There exists an exception that is linked to the minimum and maximum clearing price that shall be respected. This exception could occur in case a marginal Period Order constrains the price for a coarser time period (e.g., the 30 min “price” shall be 3000€/MWh) and the averaging rule induces an out of bound MTU price. In this case, Period Orders can be paradoxically rejected.
- Example: The first 15’ period has marginal orders setting its price at 0€/MWh. We also have the marginal 30 min order at 3000€/MWh. So the average rule dictates: 
$$mcp_{30} = \frac{mcp_{15}^{q1} + mcp_{15}^{q2}}{2} = 3000 = \frac{0 + mcp_{15}^{q2}}{2}$$
 from which it follows that the price for the second 15’ period should be 6000€/MWh, which exceeds the (current) 4000€/MWh maximum price. Once this price is clipped to 4000€/MWh, the 30’ period becomes 2000€/MWh and some sell orders that were in the money at 3000€/MWh may no longer be at this new price, effectively becoming paradoxically accepted, i.e. we face a missing money situation. The heuristic to prevent this situation involves rejecting volumes from the Period Orders. If too much is rejected, this results in paradoxically rejected volume from the Period Orders.
- **Q: Why has a strict (arithmetic) average of 15' MTU clearing prices been chosen for 60' (30') index? Why not VWAP? What was NEMOs' reasoning behind this?**
- This question will be taken among NEMOs to respond to. The purpose was to publish the index that the SDAC algorithm is computing itself to secure matching.
- **Q: You mentioned publication timings most likely are 12:52 (preliminary) and 13:02 (firm) but still need to be finally confirmed. When will this be the case?**
- Depending on the currently ongoing procedural tests, it should be possible to confirm the timings in the second half of March 2025.
- **Q: In case there's no decoupling during an observation period, but the algorithm takes longer than expected to resolve MPs, could that be a reason to rollback?**
- The only two situations which could act as triggers for rollback are full decoupling and partial decoupling. It is important to note that for the rollback to be triggered, the decoupling events must be related to the introduction of the 15 min MTU functionality.
- **Q: Does the GL of 15 min MTU in EU mean that PXs outside will also move to 15 min when they join coupled market or there can be mixed 15/60 min MTU operations?**
- When parties will join the SDAC or SIDC, 15 min MTU must be implemented upon integration. EU TSOs would like interconnectors to be operated with 15’ MTU granularity, which means that the Energy Community Bidding Zones will also have to switch at the same time as the go live in SDAC, or before.
- **Q: Will the Spanish market participate in the transition to 15min resolution from June 2025?**
- Yes.

### 3. AOB

### 4. Closure

## List of Acronyms

1. **ACER** - Agency for the Cooperation of Energy Regulators
2. **ALG** - Algorithm
3. **AM** - Algorithm Methodology
4. **AMM** - Algorithm Management Methodology
5. **APD** - Automatic Partial Decoupling
6. **ATC** - Available Transmission Capacity
7. **BZ** - Bidding Zone
8. **CACM** - Capacity Allocation and Congestion Management
9. **CCM** - Capacity Calculation Methodology
10. **CCRs** - Capacity Calculation Regions
11. **CfDs** - Contracts for Differences
12. **CIP** – Central Interface Point
13. **CMM** - Capacity Management Module
14. **CPLEX** - Optimization Solver
15. **CPM** – Cross Product Matching
16. **CZC** – Cross Zonal Capacity
17. **DA** - Day-Ahead
18. **DST** - Daylight Saving Time
19. **EAM** - Energy Activation Market
20. **EMD** - Electricity Market Design
21. **ENTSO-E** - European Network of Transmission System Operators for Electricity
22. **FB** - Flow-Based
23. **FIT** - Functional Integration Testing
24. **GCT** - Gate Closure Time
25. **GL** – Go-live
26. **GUI** - Graphical User Interface
27. **HMMP** - Harmonized Maximum and Minimum Prices
28. **HMMCP** - Harmonized Maximum and Minimum Clearing Prices
29. **HVDC** - High Voltage Direct Current
30. **ID** - Intraday
31. **IDAs** - Intraday Auctions
32. **IDCT** - Intraday Continuous Trading
33. **IDCZGCT** - IntraDay Cross-Zonal Gate Closure Time
34. **ISP** - Imbalance Settlement Period
35. **LTS** - Local Trading System(s)
36. **MARI** - Manually Activated Reserves Initiative
37. **MCCG** - Market Coupling Consultative Group
38. **MCSC** - Market Coupling Steering Committee
39. **MESC** – Market European Stakeholders Committee
40. **mFRR** - Manual Frequency Restoration Reserves
41. **MNA** – Multi NEMO Arrangements
42. **MPs** - Market Participants
43. **MSD** - Market and System Design group of MCSC
44. **MTU** - Market Time Unit
45. **MVP** - Minimum Viable Product
46. **NEMO** - Nominated Electricity Market Operator
47. **NRA** - National Regulatory Authority

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48. **OBK** - Order Book
  49. **OPSCOM** - Operations Committee of MCSC
  50. **OTU** - Operational Time Unit
  51. **PCR** - Price Coupling of Regions
  52. **PMB** - Price Matching Broker
  53. **POs** – Period Orders (30' or 60')
  54. **QARM** - Quality Assurance and Release Management Working Group of MCSC
  55. **R&D** - Research and Development
  56. **RES-E** - Renewable Energy Sources - Electricity
  57. **SCOs** - Scalable Complex Orders
  58. **SDAC** - Single Day-Ahead Coupling
  59. **SIDC** - Single Intraday Coupling
  60. **SIT** - System Integration Testing
  61. **SPoC** - Single Point of Contact
  62. **SM** – Shipping Module
  63. **SOB** - Shared Order Book
  64. **TSO** - Transmission System Operator
  65. **XBID** - Cross-Border Intraday Market Project
  66. **Xpress** - Optimization Solver

For more information on the terms used, please consult the glossary at the [\[NEMO Committee\]](#) website.