

SIDC_NEMO_EXC_07 – Maximum and Minimum Clearing Price Management

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Previous versions

Version	Date	Author	Summary of changes
1	15/05/2024	[REDACTED]	Writing PX
1.1	22/11/2024	[REDACTED]	Removed leftover references to 'hours' due to other market time units being available. Added instructions for the newly introduced HMMCP Alert Log Renamed IDA NEMO Coordinator to IDA Coordinator.
1.2	29/04/2025	[REDACTED]	Updates related to PMB 13.1 changes: <ul style="list-style-type: none">- Chapter 2.1, case 4- Chapter 2.1, table 1 step 1- Chapter 2.2.1
1.3	08/07/2025	[REDACTED]	Updates related to the rounding mechanism (SCF is not able to work with decimal numbers, therefore the rounding down mechanism had been inserted)

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1. Introduction

This document gives a description of the special actions that should be applied on the SIDC auction and continuous markets in case:

- a. The SIDC intraday auction clearing price exceeds a value of 70 percent of the predefined harmonised maximum or minimum clearing price for SIDC in at least 2 market time units in at least 2 different days within 30 rolling days from the first price spike, in at least one bidding zone.
- b. The harmonised maximum or minimum clearing price for SDAC is increased above or decreased below the harmonised maximum clearing price for SIDC.

Annex I (found at the end of this document) contains the current SIDC maximum and minimum harmonised clearing prices.

Annex II (found on ProjectPlace) contains the history of HMMCP notifications received in PMB during the Intraday Auctions.

1.1. Purpose

The purpose of this procedure is to describe the specific actions that should be performed by Operational NEMOs in case the above situation is detected, as well as the implications and consequences.

The involved actions include PMB interventions, local NEMO actions and formal communications between IDA NEMO Operators performing the IDA Market Coupling Session.

1.2. Governed / Regulated by

- All NEMO Intraday Operational Agreement
- ACER Decision on NEMOs HMMCP for single intraday coupling and Annex 1 Official documents published on the NEMO Committee website: <https://www.nemo-committee.eu/publication-detail/in-force-hmmcp-methodologies-for-sdac-and-sidc>

1.3. Associated Procedures

- IDA_NEMO_OTH_01 – IDA Calls
- SIDC_JOINT_OTH_02 – Internal and External Communications

2. Procedure

2.1. Maximum or Minimum Clearing Price detection and process for amending maximum or minimum price

Case 1. The harmonised maximum clearing price for SIDC shall be amended according to the following rules:

- a. the harmonised maximum clearing price for SIDC shall be increased by 500 EUR/MWh in the event that the clearing price of an intraday auction, in at least one bidding zone, exceeds a value of 70 percent of the harmonised maximum clearing price for SIDC in at least 2 market time units in at least 2 different days within 30 rolling days from the first price spike;
- b. after the event referred to in subparagraph (a) occurred, the transition period shall be set to 28 days following the completion of the event;
- c. during the transition period mentioned in subparagraph (b), the clearing price shall be kept at the value of the harmonised maximum clearing price for SIDC before the adjustment and all events referred to in paragraph (a) occurred during the transition period shall be ignored;
- d. the bidding zones referred to in subparagraph (a) shall be only those bidding zones with cleared buy and sell volumes and those part of the fully coupled SIDC, excluding virtual zones and uncoupled bidding zones.

Case 2. The harmonised minimum clearing price for SIDC, shall be adjusted according to the following rules:

- a. the harmonised minimum clearing price for SIDC shall be decreased by 100 EUR/MWh in the event that the clearing price, in at least one bidding zone, falls below a value of 70 percent of the harmonised minimum clearing price for SIDC in least 2 market time units in at least 2 different days within 30 rolling days from the first low price;
- b. after the event referred to in subparagraph (a) occurred, the transition period shall be set to 28 days following the completion of the event;
- c. during the transition period mentioned in subparagraph (b), the clearing price shall be kept at the value of the harmonised minimum clearing price for SIDC before the amendment and all events referred to in paragraph (a) occurred during the transition period shall be ignored;
- d. the bidding zones referred to in subparagraph (a) shall be only those bidding zones with cleared buy and sell volumes and those part of the fully coupled SIDC, excluding virtual zones and uncoupled bidding zones.

Case 3. The harmonised maximum clearing price for SIDC shall be adjusted in the event that harmonised maximum clearing price for SDAC is increased above the harmonised maximum clearing price for in such a case, the harmonised maximum clearing price for SIDC shall also increase to be equal to the harmonised maximum clearing price for SDAC. Any such change shall be implemented and applied at the same time that the harmonised maximum clearing price for SDAC is applied.

Case 4. The harmonised minimum clearing price for SIDC shall be adjusted in the event that harmonised minimum clearing price for SDAC is decreased below the harmonised minimum clearing price for SIDC. In such a case, the harmonised minimum clearing price for SIDC shall also decrease to be equal to the harmonised minimum clearing price for SDAC. Any such change shall be implemented and applied at the same time that the harmonised minimum clearing price for SDAC is applied.

The NEMOs shall transparently announce and publish the adjusted harmonised maximum and/or minimum clearing price for SIDC at least 21 days before its implementation and application in SIDC.

The Harmonization of the Minimum and Maximum Clearing Prices process shall be applied in all market areas which participate in SIDC auctions pursuant to Article 54(1) of the CACM Regulation. Changes are applicable for all markets under CACM regulation.

This document establishes, after the detection of the above-mentioned situation, the needed actions in order to establish and amend new maximum price for the SIDC markets and, when relevant, reporting towards SIDC bodies.

After the IDA calculation, if the 70 percent of the predefined harmonised maximum or minimum clearing price is reached or exceeded, a notification message will appear in all PMBs, showing the bidding areas and market time units impacted.

It is the responsibility of each Operational NEMO to check the Intraday Market Coupling Prices and specifically for the market areas where they are an active NEMO in order to detect the reaching or exceeding of the 70 percent of the predefined harmonised maximum or minimum clearing price.

All needed actions will be carried out outside of the on-going Intraday Market Coupling session and shall not interfere with it.

The following table lists all the steps and rules involved in the detection and management for amending and set new maximum or minimum price for the SIDC markets, **for case 1 and 2**. A brief description of each step is available below the table.

The Intraday Auction MCO Function System Operators (IDA NEMO Operators) should follow the exact order of steps, under the coordination of the IDA Coordinator.

Table 1 – Minimum and Maximum Clearing Prices detection process steps, case 1&2

Step	Description	Target Time	Procedure involved
1	Once the Market coupling results are available, a warning notification will appear in all PMBs regarding the HMMCP, if the 70 percent of the predefined harmonised maximum or minimum clearing price is reached or exceeded.	GCT + 00:14 (8 minutes from Start Time)	IDA_NEMO_NOR_09
2	In the event that the clearing price exceeds a value of 70 percent of the harmonised maximum or minimum clearing price in at least two market time units, in at least two different days (2 market time units in total) within 30 rolling days from the first price spike in an individual bidding zone or in multiple bidding zones in SIDC the harmonised maximum clearing price for SIDC shall be increased by 500 EUR/MWh or the harmonised minimum clearing price for SIDC shall be decreased by 100 EUR/MWh.	-	-
3	Once the situation (Step 1) is detected, the IDA Coordinator will inform the Operational NEMOs about the situation in the IDA session call and after the MCS the relevant steps will be performed.	GCT + 00:20	-
4	The IDA Coordinator will then send the message <i>IDA_JOINT_10: "IDA ad-hoc Operations Committee"</i> to the Operational NEMOs and the predefined Ad-hoc OPSCOM contact list in order to organize an Ad-Hoc NEMO OPSCOM according to the IDA_NEMO_OTH_01 procedure. The invitation will additionally include the reason of organizing the OPSCOM - exceeding the clearing price threshold. <i>Note: Ad-Hoc NEMO OPSCOM will be held on working days only.</i> <i>Ad-Hoc NEMO OPSCOM will be launched for the detection of maximum and minimum price.</i>	At the end of the MCS	IDA_NEMO_OTH_01 SIDC_JOINT_OTH_02
5	During the Ad-hoc OPSCOM, the situation will be discussed and validated. a) If it is the first day that the harmonised maximum or minimum clearing price is reached or exceeded, steps 6 will be followed and no further action will be necessary, the process is stopped. b) If it is the second day that the harmonised maximum or minimum clearing price is reached or exceeded, all of the following steps will be followed.	Timing of the ad-hoc OPSCOM	IDA_NEMO_OTH_01
6	The IDA Coordinator will send an official communication to the operational NEMOs by sending the message POST_Exc_IDA_JOINT_10. The information contained in PMB notification should be added by IDA Coordinator in the POST_Exc_IDA_JOINT_10 message or Minimum clearing price notified by the operational NEMO. The Operational NEMO(s) of the impacted Bidding Zone(s) request the IDA Coordinator to fill out Annex II – HMMCP Notification Log during the Ad-hoc OPSCOM.	ASAP	

Step	Description	Target Time	Procedure involved
7	<p>During the Ad-hoc OPSCOM call, the new parameter will be confirmed.</p> <p>The IDA Coordinator will send official communication to SIDC by sending the message POST_Exc_IDA_JOINT_10 with detailed information extracted from previous message sent by IDA Coordinator or Minimum clearing price notified by the operational NEMO.</p> <p>The new HMMCP values agreed in the Ad-hoc OPSCOM that will be applied after 28 days the second day threshold is reached or exceeded</p>	ASAP	SIDC_JOINT_OTH_02
8	<p>The SCF will be changed with the new value and the Operational NEMOs shall then update Local /regional Interim Solution after 28 days the second day threshold is reached or exceeded and set a new threshold detection to the new value: the 70% of the newly agreed Clearing Price, rounded down to integer (SCF does not allow counting in decimals).</p>	ASAP	Only applicable after reaching the threshold on two different days in at least two market time units

2.2. Process clarification

2.2.1. Process clarification for case 1 and 2:

1. Once the Market coupling results are available, a warning notification will appear in all PMBs regarding the HMMCP, if 70 percent of the predefined harmonised maximum or minimum clearing price is reached or exceeded.
2. The IDA Coordinator will check the warning notification. In the event that the clearing price exceeds a value of 70 percent of the harmonised maximum or minimum clearing price previously set for the Intraday auction in at least in at least two market time units, in at least two different days within 30 rolling days from the first price spike in an individual bidding zone or in multiple bidding zones in SIDC IDA, the harmonised maximum clearing price for SIDC shall be increased by 500 EUR/MWh or the harmonised minimum clearing price for SIDC shall be decreased by 100 EUR/MWh.

For example: The Maximum Clearing Price is set to 4,000 EUR/MWh, the Clearing Price detection of 70% is set to 2,800 EUR/MWh, and the IDA NEMO Operator who detects a clearing price that reaches or trespasses it for two of its areas of responsibility. The new Maximum Clearing Price will be set to 4.500 EUR/MWh and the new 70% detection value shall also be updated to 3.150 EUR/MWh.

Agreed reasons to not proceed with the application of the Minimum and Maximum Clearing Price detection process rules:

- a. Countries that are not coupled to other countries.
- b. Rule applies to all areas defined as market area. This means that **virtual areas (such for example DK1A i/o DK1)** are excluded from this rule as this kind of areas do not have bids.
- c. For certain areas, Euphemia might calculate a maximum price of 9999 EUR/MWh **but the clearing price will be different**. Concrete example for this case and for Nordic countries are areas LBI and LBE where Euphemia might calculate a price of 9999 EUR/MWh but the clearing price will always correspond to the neighbouring area's prices which is much lower and which thereby represents the official clearing price.

- d. The given bidding zone(s) that has been decoupled. (Article 4 of the ACER Regulation).
3. IDA Coordinator will inform about the detection of the situation detailed in **Point 2** on the IDA session call and after the MCS the relevant steps will be performed.
 4. The IDA Coordinator will then send the message IDA_JOINT_10: "IDA ad-hoc Operations Committee" to Operational NEMOs and NEMOs and the predefined Ad-hoc OPSCOM contact list in order to organize an Ad-Hoc NEMO OPSCOM according to the SIDC_JOINT_OTH_02 procedure.

Ad-Hoc NEMO OPSCOM will be launched for the detection of maximum and minimum price.

5. During the ad-Hoc OPSCOM meeting, the situation will be discussed and validated.

Depending on the outcome of the discussion, following actions are listed immediately after:

- If it is the first day that the harmonised maximum or minimum clearing price is reached or exceeded, no further action will be necessary, steps 6 will be followed and no further action will be necessary, the process is stopped.
- If it is the second day that the harmonised maximum or minimum clearing price is reached or exceeded, steps 6 will be followed.

Agreed reasons to not proceed with the application of the HMMCP rules are described above in section 2.

6. The IDA Coordinator will then send official communication to Operational NEMO by sending message *POST_Exc_IDA_JOINT_10*.

The information contained in PMB notification or Minimum clearing price notified by the operational NEMO should be added by IDA Coordinator in the *POST_Exc_IDA_JOINT_10* message.

The Operational NEMO(s) of the impacted Bidding Zone(s) request the IDA Coordinator to fill out Annex II – HMMCP Notification Log during the Ad-hoc OPSCOM.

7. During the Ad-hoc OPSCOM call, the new parameter will be confirmed.

Official public communication towards market participants and external parties will be done locally by each party. Message will include previous information from message *POST_Exc_IDA_JOINT_10*, the content will be discussed during OPSCOM meetings. According to regulation, public communication shall be published by NEMOs at least 21 days before its implementation, so 1 week after detection.

8. The SCF will be updated with the new value and all Operational NEMOs shall then update Local/regional interim solution after 28 days the second day threshold is reached or exceeded. The new value will be 70% of the newly agreed Clearing Price, rounded down to integer (SCF does not allow counting with decimals).

2.2.2. Process clarification for case 3 and 4:

In case the maximum clearing price is increased in SDAC above the maximum clearing price in SIDC (in XBID and IDA SCF), or in case the minimum clearing price is decreased in SDAC below the minimum clearing price in SIDC (in XBID and IDA SCF), this price in XBID and IDA SCF also has to be updated to be equal to the price in SDAC. The change in XBID and IDA SCF must be implemented and put into effect at the same time as in SDAC.



The XBID NEMO Central Admin is only responsible for exchange of communication. NCA should not perform any action of modification of the price ranges on its own. Such action is a subject of agreement of NEMO ID SC.

NCA must follow this process:

Steps to be followed

1. [REDACTED]
 - 1.1. It is expected that SDAC procedure defines that the confirmation is needed and if it is not received, SDAC escalates it to SDAC decision-making body.
2. [REDACTED] informing them about the need to check and possibly update the price ranges, referring to mentioned Article 4 and received notification from SDAC as the decision about the update of prices can be done only by NEMO ID SC. NEMO ID SC shall setup ad hoc call after receiving the request for the change of min-max prices.
 - 2.1. [REDACTED] NCA has to inform NEMO ID SC immediately [REDACTED]
 - 2.2. [REDACTED]. If no such confirmation is received within end of next business day, NCA has to escalate to NEMO ID SC representatives(s) of NCA's company who need to make sure the issue is brought to NEMO ID SC as soon as possible.

Annex I. Maximum and Minimum Clearing Price Management

Harmonised maximum and minimum clearing prices for SDAC

1. The harmonised maximum clearing price for SDAC shall be **+4000** EUR/MWh.
2. The harmonised minimum clearing price for SDAC shall be **-500** EUR/MWh.

Harmonised maximum and minimum clearing prices for SIDC

1. The harmonised maximum clearing price for SIDC shall be **+9999** EUR/MWh.
2. The harmonised minimum clearing price for SIDC shall be **-9999** EUR/MWh.

Annex II. HMMCP Notification Log

HMMCP Notification Log is available on the ProjectPlace:

- Location: workspace: XBID PX Project, path: Documents/01 PM Documents/02 Meeting minutes/02 – NEMO OPSCOM/h) HMMCP Notification Log
- PP link: <https://service.projectplace.com/#direct/document/372888971>