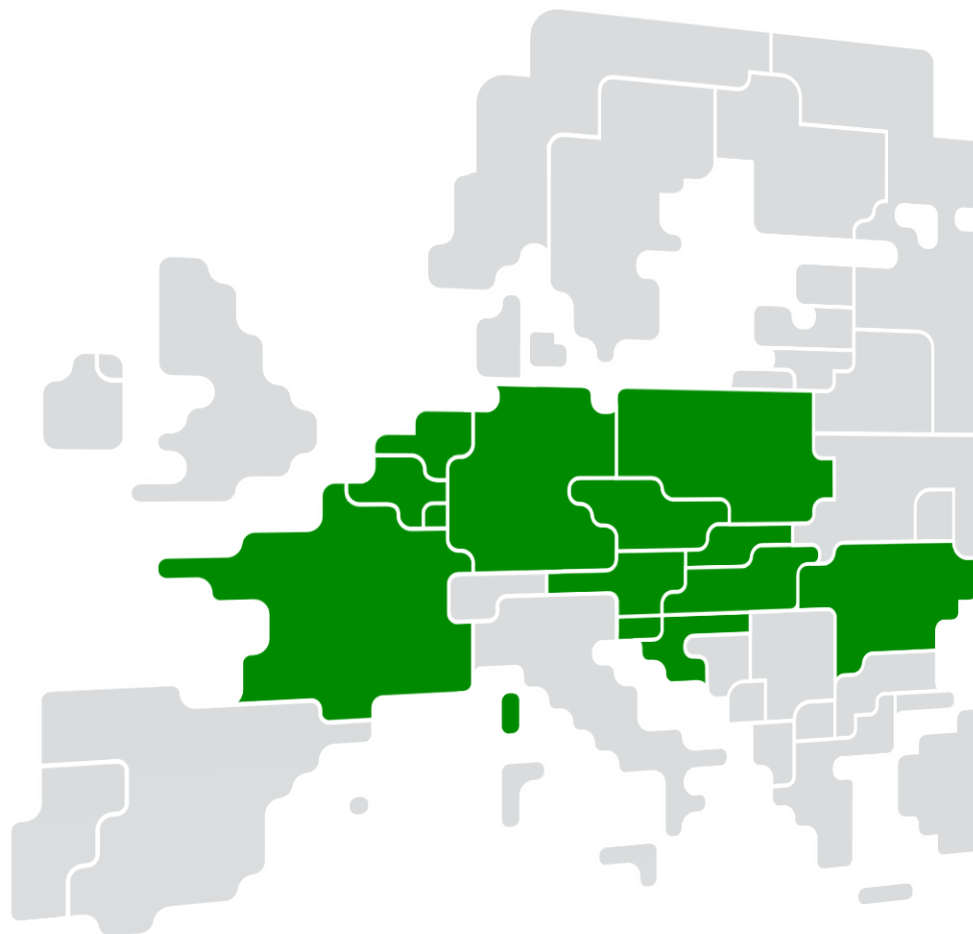


# Core Consultative Group IDCC Go-live call

11/07/2024

13:00 – 15:00h (CET)

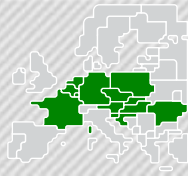
Microsoft Teams meeting



# 1. Welcome and Introduction

Practicalities, announcements and reminders

R.OTTER/S. VAN CAMPENHOUT  
Z.GAUTIER



## Co-chairs



**Zélie Gautier**  
Market Participants, Engie



**Ruud OTTER**  
Core TSOs, Tennet BV



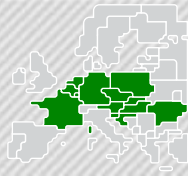
**Steve Van Campenhout**  
Core TSOs, ELIA

## Practicalities

- During meeting
  - Please use the **chat** in Teams to address questions. If you have a specific question on the slide, include the slide number in your question.
  - After each topic there will be a short Q&A section to see if all key questions have been addressed
- Follow up
  - Minutes and final meeting documents will be shared with CCG distribution list
  - JAO Q&A forum

# 1. Welcome and introduction

Z.GAUTIER

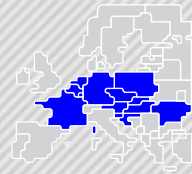


## Agenda

	SUBJECT	WHO	TIMING
1	<b>Welcome and introduction</b> <ul style="list-style-type: none"><li>• Announcements</li><li>• Agenda for today</li></ul>	Z. GAUTIER	13:00 – 13:15
2	<b>Process, fallbacks and data publication</b> <ul style="list-style-type: none"><li>• Process stability IDCC(a) and (b)</li><li>• Fallbacks</li><li>• Location of capacity data publication</li></ul>	B.MALFLIET	13:15 – 13:50
3	<b>KPIs and BZ isolations</b> <ul style="list-style-type: none"><li>• Latest KPI results for IDCC(a) and (b)</li><li>• Market Party presentation BZ isolations</li><li>• TSO presentation on BZ isolations:<ul style="list-style-type: none"><li>• BZ isolation mitigation measures</li><li>• Capacity improvement study scope</li></ul></li></ul>	B.MALFLIET Market Party representative B.MALFLIET	13:50 – 14:50
4	<b>AOB &amp; closure</b> <ul style="list-style-type: none"><li>• Next Core CG meeting</li></ul>	STK managers	14:50 – 15:00
	<b>APPENDIX</b> <ul style="list-style-type: none"><li>• Glossary of common abbreviations</li></ul>		

## 2. IDCC

B. MALFLIET



A major milestone completed: Core FB IDCC (a) and (b) go-live



### **Core FB IDCC (b) go-live**

28/05 trading day for delivery day 29/05

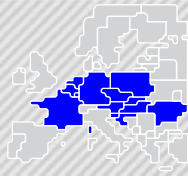
### **Core FB IDCC (a) go-live**

13/06 trading day for delivery day 14/06

We thank all involved for ensuring this success towards an integrated European Energy market!

## 2. IDCC

B. MALFLIET



### Process stability for IDCC(a)

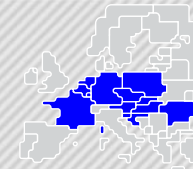
#### Introduction

- Since the IDCC go-live for BD20240529, both the IDCC(a) and IDCC(b) process have been monitored closely. The process stability and KPI results since go-live are included in this material.

The IDCC(a) process runs successfully, and high-quality results are published before 14:45 for all days.

#### Next steps

- Core TSOs to inform stakeholders on the IDCC(a) process via the monthly and quarterly reporting
- The first quarterly report can be expected after Q3. This report will also include the results of Q2 (since go-live)



### Process stability for IDCC(b)

#### Introduction

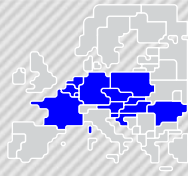
- Since the IDCC go-live for BD20240529, the IDCC(b) process has been monitored closely. The process stability and KPI results since go-live are included in this material.

The IDCC(b) process runs successfully, and high-quality results are published before 21:45 for most days. On a few days the extended deadline of 21:55 was used. The process failed three times resulting in not providing updated IDCC(b) capacities for IDA2.

- The process timing constraints of the IDCC process remain challenging, causing slight delays in publication of results for some business days.
  - Core TSOs are continuously working on improvements in the process to reduce the risk of delayed delivery of capacities. The first improvements have already been implemented and are expected to reduce the frequency of delayed delivery.
  - The fallback was applied for BD20240609, BD20240617 and BD20240623 as prescribed by the ID CCM. For detailed description of BD20240623 see next slide.
- The process failures occurred due to issues with the provisioning of input files in the capacity calculation process. Core TSOs already followed up on experienced issues and expect that these will not occur in the future.

#### Next steps

- Core TSOs to inform stakeholders on the IDCC(b) process via the monthly and quarterly reporting
- The first quarterly report can be expected after Q3. This report will also include the results of Q2 (since go-live)



### DA AAC fallback for BD20240623

#### Introduction

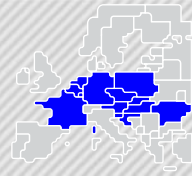
- On BD20240623, the DA AAC fallback was applied through the whole day for the IDCC(b) process. Due to a bug within the process this caused exceptional low capacities.

The DA AAC fallback was applied for BD20240623 and a bug was identified in the process, Core TSOs followed up and the solution will be implemented on 11/07

- The DA AAC fallback is applied according the Art.19 of the ID CCM 3rd amendment.
  - "The RAM on each CNEC (including allocation constraints) is then decreased by the adjustments for minRAM from the DA domain."

#### Next steps

- 11/07: Update released in IT systems to solve the bug



### Process timings, fallback scenarios and publication of data

#### Overview of IDCC(b) process timings incl. delayed provisioning of capacities in case of temporary fallback

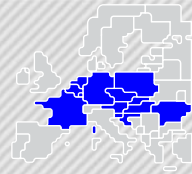
	As IDA go-live	Enduring situation (earliest as of September 2024)
<b>Target End Time (TET)</b> for submitting IDCC(b) capacities	21:45	21:45
<b>Critical End Time (CET)</b> for submitting IDCC(b) capacities to IDA 2	21:55	21:55
<b>Critical End Time (CET)</b> for submitting IDCC(b) capacities to CT	N/A	TBC, but somewhere after 22:05
<b>IDCC(b) fallback</b> if CET for IDA2 is breached	IDCC(a) capacities (updated to how the market used them until 21:40) prevail.	IDCC(a) capacities (updated to how the market used them until 21:40) prevail.
<b>IDCC(b) fallback</b> if CET for CT is breached	N/A	<i>To be determined based on NRA feedback</i>
<b>Remarks</b>	<ul style="list-style-type: none"> <li>IT tooling not ready to extend CET, as the risk would be that capacities would be provided between 21:55 and 22:05, when XBID rejects capacity files due to ongoing IDA.</li> </ul>	<ul style="list-style-type: none"> <li>Pending NRA comfort to provide capacities after IDA2</li> <li>Pending IT implementation, expected by September 2024</li> <li>The provision of capacities after IDA in case of a delayed process will also be considered for IDCC(a).</li> </ul>

Main open point for the enduring solution is Core NRAs comfort to deliver IDCC(a) capacities after IDA1 (15:00) respectively IDCC(b) capacities after IDA2 (22:00) in case of a delayed process.

- Core NRAs feedback is expected by September 2024

The IDCC(a) and IDCC(b) capacities are published on the JAO Publication Tool [LINK](#) and the ENTSO-E Transparency Platform [LINK](#).

- See next slides for more information on the publication of data, also in case of a delayed process.



## Data publication in normal process – JAO publication tool

### What is the normal process, in case there are no delays ?

- Find the capacities as soon as they are published under the respective pages:
- Use the monitoring page to check whether the data is still expected. Latest :45, the status will switch from “Expected” to “Received”

**JAO Publication Tool**  
Core ID CCR

DATE: 2024-06-24

HOUR (CET): 00:00 - 01:00

HUB: None available

BORDER: All

CAPACITY CALCULATION

IDCC (a)

IDCC (b)

CAPACITY ALLOCATION

IDA 1 IDA 2 IDA 3

Core ID

Initial ATC for SIDC

Initial NTC for SIDC

Final ATC for SIDC

Final NTC for SIDC

Allocation Constraints

Core ID

Initial ATC for SIDC

Initial NTC for SIDC

Final ATC for SIDC

Final NTC for SIDC

Allocation Constraints

Date	Page	Status	Follow up action initiated
2024-06-25	IDCCA Initial NTC for SIDC	Expected	
2024-06-25	IDCCA Initial ATC for SIDC	Expected	
2024-06-25	IDCCA Final NTC for SIDC	Expected	
2024-06-25	IDCCA Final ATC for SIDC	Expected	

Date	Page	Status	Follow up action initiated
2024-06-24	IDCCA Initial NTC for SIDC	Received	
2024-06-24	IDCCA Initial ATC for SIDC	Received	
2024-06-24	IDCCA Final NTC for SIDC	Received	
2024-06-24	IDCCA Final ATC for SIDC	Received	

- In case of a fallback application, other than a failure of the process due to a delay, it will be reported for IDCC(b) on the fallback page

Core ID

Core Market Graphs

Core Map

RefProg

Max Net Positions

Max Exchanges (MaxBex)

Initial Computation

Validation Reductions

Final Computation

Allocation Constraints

Used Grid Model

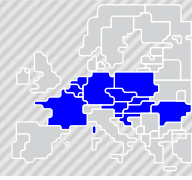
Reference Net Position

Final ATC for SIDC

Final NTC for SIDC

Applied Fallbacks

Date	Computation	Type
2024-06-23 00:00:00	Initial	DA Domain AAC Fallback
2024-06-23 00:00:00	Final	DA Domain AAC Fallback
2024-06-23 01:00:00	Initial	DA Domain AAC Fallback
2024-06-23 01:00:00	Final	DA Domain AAC Fallback
2024-06-23 02:00:00	Initial	DA Domain AAC Fallback
2024-06-23 02:00:00	Final	DA Domain AAC Fallback



## Data publication in normal process – ETP

The ENTSO-e transparency platform shows the available capacity for trading

- Continuous allocations – OC evolution shows this data. ([LINK](#))

Market Load Generation Transmission Outages Balancing Operations OMI

Continuous Allocations - OC Evolution ⓘ 01/07/2024 ⋮

<input type="checkbox"/>	Time	Out Area	In Area	Initial Offered Capacity (MW)	
<input type="checkbox"/>	01/07/2024 00:00 - 02/07/2024 00:00	BZN/CZ	BZN/AT	0.00 (VARY)	⌵ ⌶ ⌵

Detailed table is available via this icon

- The updated data filtered for 5 different intervals (see screenshot)
  - Entire evolution: Shows the updated capacities after every trade
  - 15m snapshot: Shows the updated available capacity every 15 min
  - Et cetera.

Update Timestamp

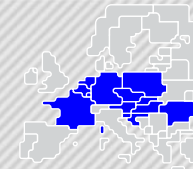
30/06/2024 13:07

entire evolution 15m snapshot 1h snapshot 2h snapshot **4h snapshot**

The detailed table shows the available capacity between two bidding zones (one-directional).

MTU	Update Ti (M)				
	25/06/2024 00:00:00.000	25/06/2024 00:15:00.000	25/06/2024 00:30:00.000	25/06/2024 00:45:00.000	25/06/2024 01:00:00.000
25/06/2024 00:00 - 25/06/2024 01:00	1420.60	1420.60	1420.60	1420.60	1420.60
25/06/2024 01:00 - 25/06/2024 02:00	1558.20	1558.20	1558.20	1558.20	1558.20
25/06/2024 02:00 - 25/06/2024 03:00	1654.10	1654.10	1654.10	1654.50	1654.40

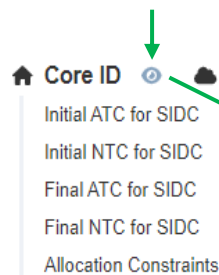
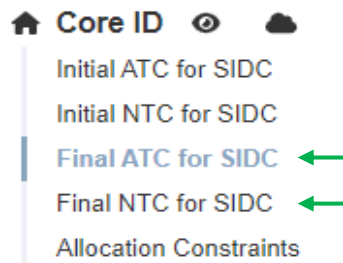
Based on timestamp 01:00, the available remaining capacity for MTU 02:00– 03:00 is 1654.4 MW



### Data publication in delayed process (after xx:45)

#### How to detect that there is a delay in the process?

- As soon as the data is ready (before :55), it will be uploaded on JAO.
- Meanwhile, the monitoring page will show that the data is pending.

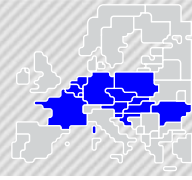


Date	Page	Status	Follow up action initiated
2024-06-13	IDCCA Initial NTC for SIDC	Pending	✓
2024-06-13	IDCCA Initial ATC for SIDC	Pending	✓
2024-06-13	IDCCA Final NTC for SIDC	Pending	✓
2024-06-13	IDCCA Final ATC for SIDC	Pending	✓

#### How to determine which capacities will be available for IDA? (see next slide for visualisation of data flow)

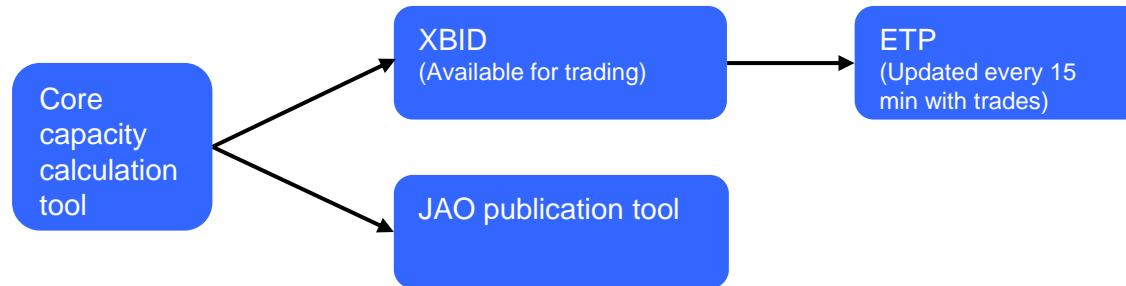
- IDCC(a)
  - If TSOs provide IDCC(a) capacities after 14:45, but before 14:55, the IDCC(a) capacities are not updated on the ENTSO-E Transparency Platform (ETP) before IDA1. In this case, the JAO PuTo provides the information on available capacities and should therefore be closely monitored by Market Parties between 14:45-14:55.
  - If TSOs fail to provide IDCC(a) capacities before 14:55, there will be no capacities available for IDA1 (as shown on ETP)
- IDCC(b)
  - If TSOs provide IDCC(b) capacities after 21:45, but before 21:55, the IDCC(b) capacities are not updated on the ETP before IDA2. In this case, the JAO PuTo provides the information on available capacities and should therefore be closely monitored by Market Parties between 14:45-14:55.
  - If TSOs fail to provide IDCC(b) capacities before 21:55, market parties should rely on the capacities that are on the ETP as of 21:45 for IDA2 (representing the IDCC(a) capacities updated to how the market used them until 21:40).

A UMM is sent to the market within one hour in case the :45 or :55 deadline is breached. Core TSOs are investigating possibilities to send this message immediately in case of process delay.

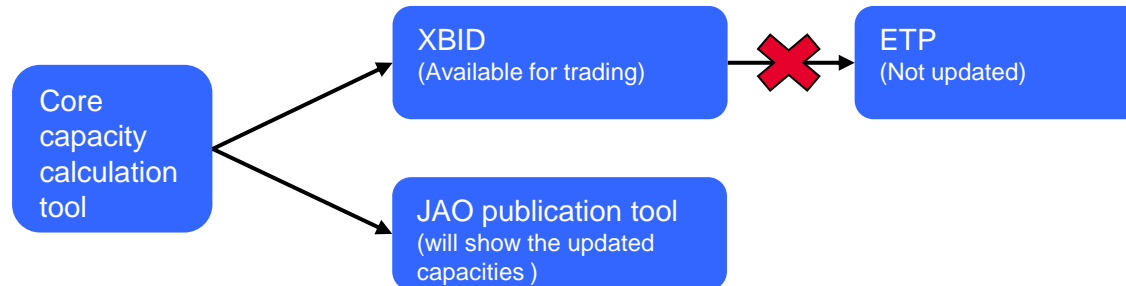


### Information flow of IDCC capacities

#### No delay in process



#### Process delayed after xx:45 but finishes before xx:55. Where to find capacities for IDA?

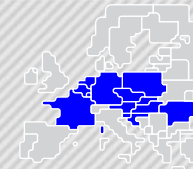


#### If the process is not finished before xx:55

- IDA1: If TSOs fail to provide IDCC(a) capacities before 14:55, there will be no capacities available for IDA1 (as shown on the ETP)
- IDA2: If TSOs fail to provide IDCC(b) capacities before 21:55, market parties should rely on the capacities that are on the ETP as of 21:45 for IDA2 (representing the IDCC(a) capacities updated to how the market used them until 21:40).

#### Remarks

- Core TSOs are responsible for the Core capacity calculation tool. All other systems are outside of the Core governance.
- The ETP will show the available capacities for continuous trading after IDA.



### KPIs – IDCC(a) – Background and summary

#### Background on IDCC(a) results from BD20240529 – BD20240626 (29 BDs)

- The KPIs on the next slides are based on the final ID ATCs from the IDCC(a) process, as published on the JAO publication tool.
- KPIs presented on the next slides cover the period since IDCC(b) go-live. As IDCC(a) business go-live was on 13/06, results from IDCC(a) the intermediate period between 29/05 and 13/06 are added to the data set. The process was fully operational.
- The IDCC(a) capacities will be provided to IDA1 for allocation at 15:00.

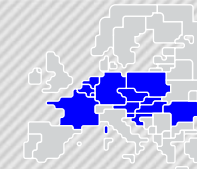
#### Summary of results

- Results for IDCC(a) are in line with the results observed in the EXT//run.
- Compared to the times before IDA go-live, when no capacities for ID trading between 15:00 D-1 and 22:00 D-1 were available, capacities from IDCC(a) are a big improvement for the ID market.

#### Capacity reductions of TSOs for IDCC(a)

- Due to the potential non-inclusion of IDA1 and continuous trade results, PSE reduce the capacities on their borders for IDCC(a) because of operational security.
- Initially and as communicated in previous CG meetings, APG had not foreseen to provide Intraday capacities for the first Intraday Auction (IDA1). With the implementation of an additional validation process introduced shortly before IDA go-live, APG is now in the position to make capacities available (cf. email to CG members 11/06). However, reductions remain as a result of the validation process where necessary.

Detailed KPI results are available in the next slides (The analysed period is relatively short and the upcoming time will show the stability of KPI results)



## KPI results IDCC(a) for BD20240529 – BD20240626

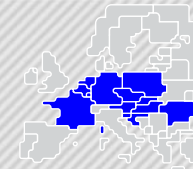
## IDCC(a) KPIs last 2 weeks of external parallel run:

Quality	29.05.24	30.05.24	31.05.24	01.06.24	02.06.24	03.06.24	04.06.24	05.06.24	06.06.24	07.06.24	08.06.24	09.06.24	10.06.24	11.06.24	12.06.24	13.06.24
Min ATC per border from all TS (average on all borders)	0	9	2	25	8	0	0	0	19	0	0	0	0	0	0	3
Average ATC per border from all TS (average on all borders)	247	491	455	411	399	366	393	235	336	329	325	347	295	208	247	389
Max ATC per border from all TS (average on all borders)	960	1489	1459	1305	1491	1351	1381	971	1314	1391	1490	1570	1342	1028	1001	1326
Percentage of TS with ATC > 0 (considering all borders)	36%	62%	38%	43%	44%	46%	38%	38%	47%	47%	33%	31%	37%	29%	43%	37%
Percentage of TS with ATC = 0 (considering all borders)	64%	38%	62%	57%	56%	54%	62%	63%	53%	53%	67%	69%	63%	71%	57%	63%
Percentage of TS with ATC < 0 (considering all borders)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Isolated Bidding Zones in both directions (number of occurrence per BD)	68	5	30	40	26	13	22	48	21	32	43	55	34	68	19	23

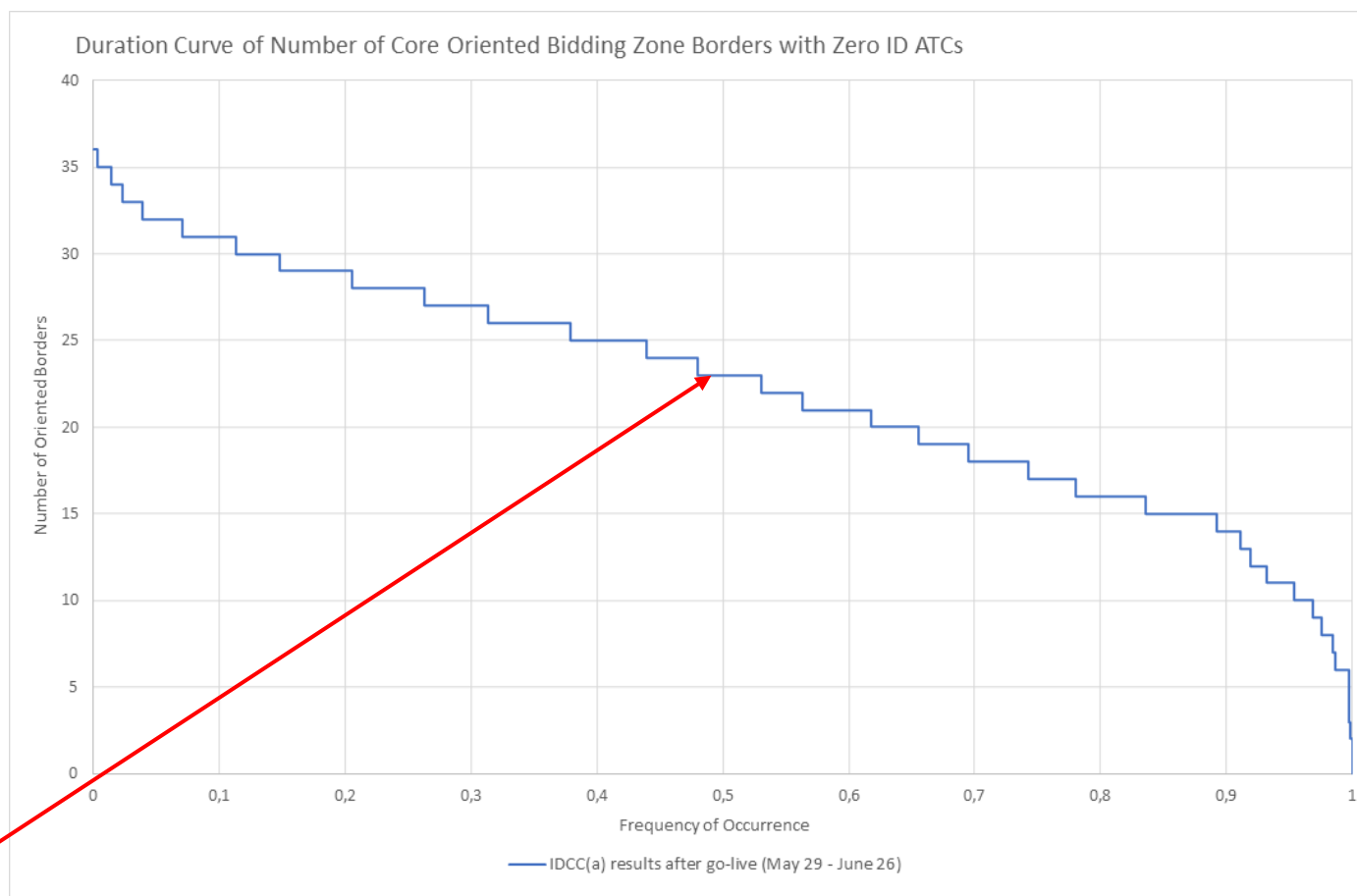
## IDCC(a) KPIs since go-live:

Quality	14.06.24	15.06.24	16.06.24	17.06.24	18.06.24	19.06.24	20.06.24	21.06.24	22.06.24	23.06.24	24.06.24	25.06.24	26.06.24
Min ATC per border from all TS (average on all borders)	5	12	0	29	24	0	17	1	7	8	9	154	25
Average ATC per border from all TS (average on all borders)	355	409	399	380	309	281	384	398	327	254	310	469	491
Max ATC per border from all TS (average on all borders)	1663	1591	1634	1254	1232	1214	1540	1557	1260	1481	1344	852	1183
Percentage of TS with ATC > 0 (considering all borders)	42%	54%	50%	42%	31%	42%	33%	35%	41%	39%	38%	57%	37%
Percentage of TS with ATC = 0 (considering all borders)	58%	46%	50%	58%	69%	58%	67%	65%	59%	61%	62%	43%	63%
Percentage of TS with ATC < 0 (considering all borders)	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Isolated Bidding Zones in both directions (number of occurrence per BD)	29	16	14	21	50	33	39	17	13	25	24	24	34

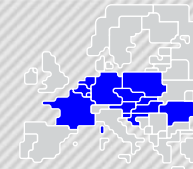
- Frequency of positive ATC values per day after IDCC(a) business go-live is higher than 30% on each day of the observed period, with maximum of 57%.
- Number of isolated bidding zones in both directions after IDCC(a) business go-live is approximately 26 per BD on average.



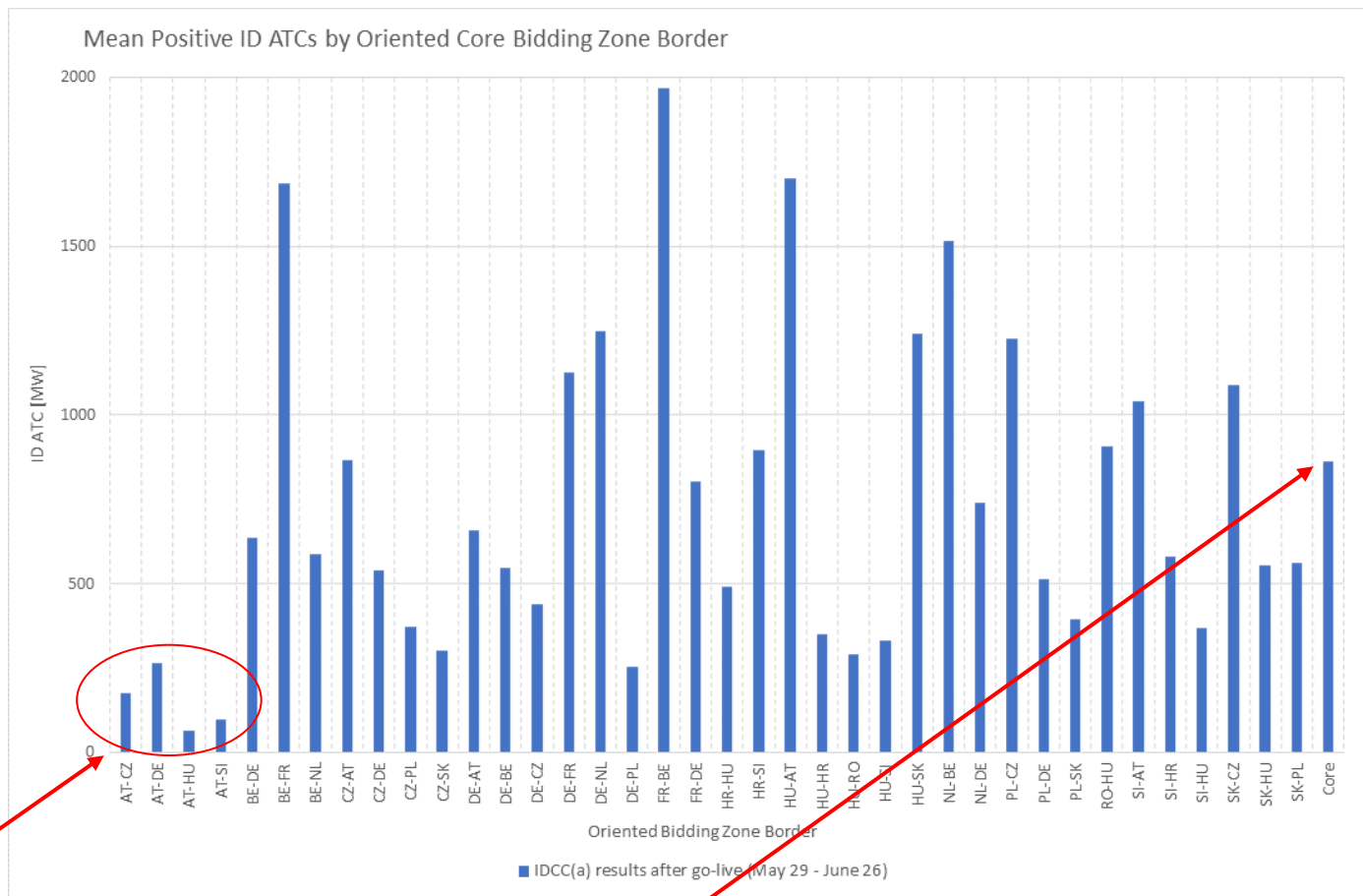
### KPI results IDCC(a) for BD20240529 – BD20240626



- In the first month after go-live, duration curve of number of borders with zero ATC in IDCC(a) shows that 50% of the time there are 23 or more oriented borders with simultaneous zero ATC values.

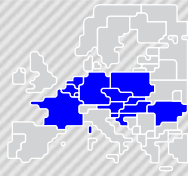


## KPI results IDCC(a) for BD20240529 – BD20240626

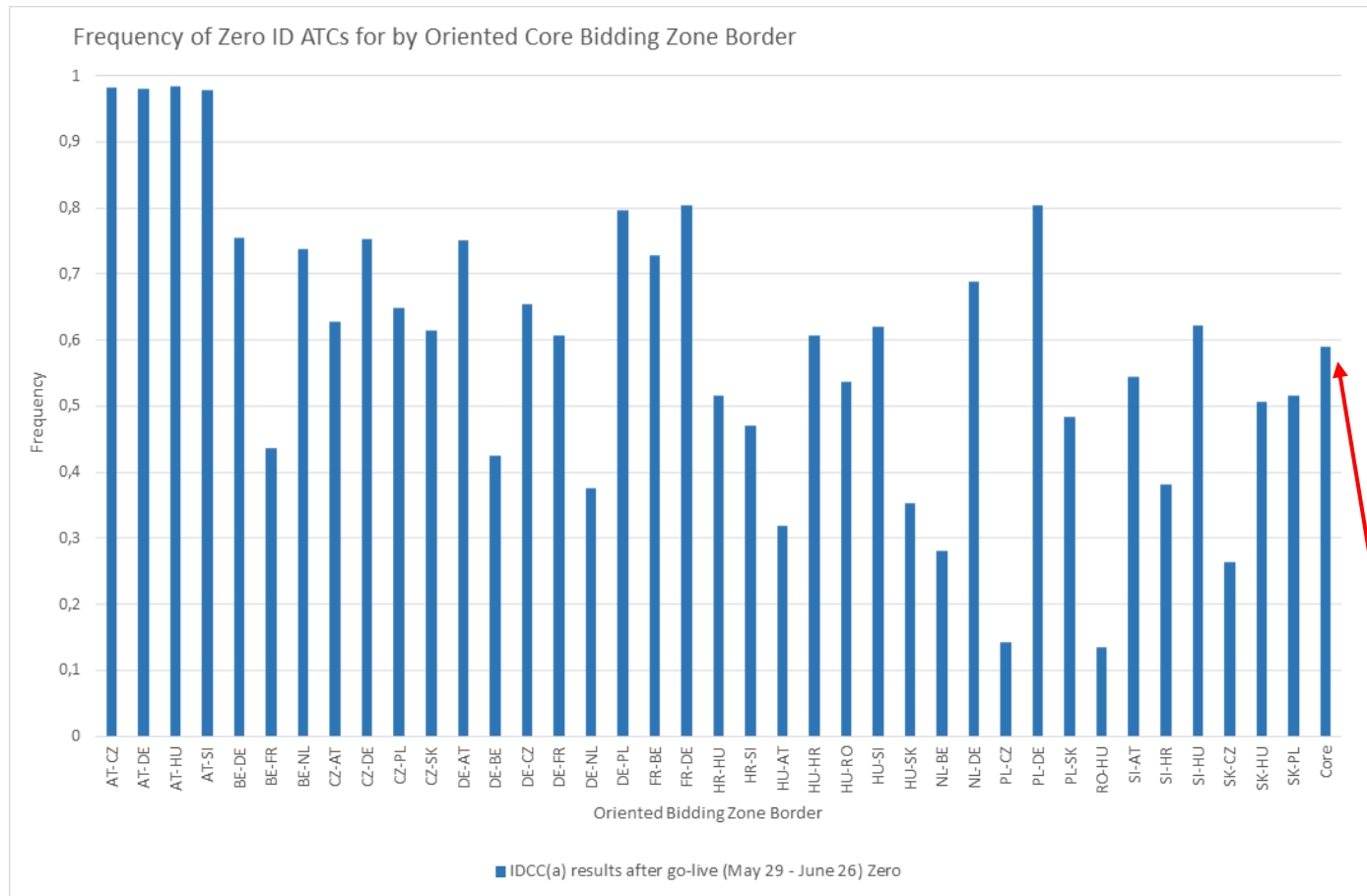


- The lowest average ATC values are for AT export direction due to AT's high export situations in SDAC, as well as the outcome of the local validation.
- On Core level, average ATC is over 800 MW.

## 2. IDCC

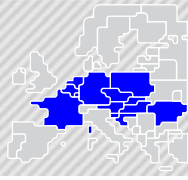


### KPI results IDCC(a) for BD20240529 – BD20240626

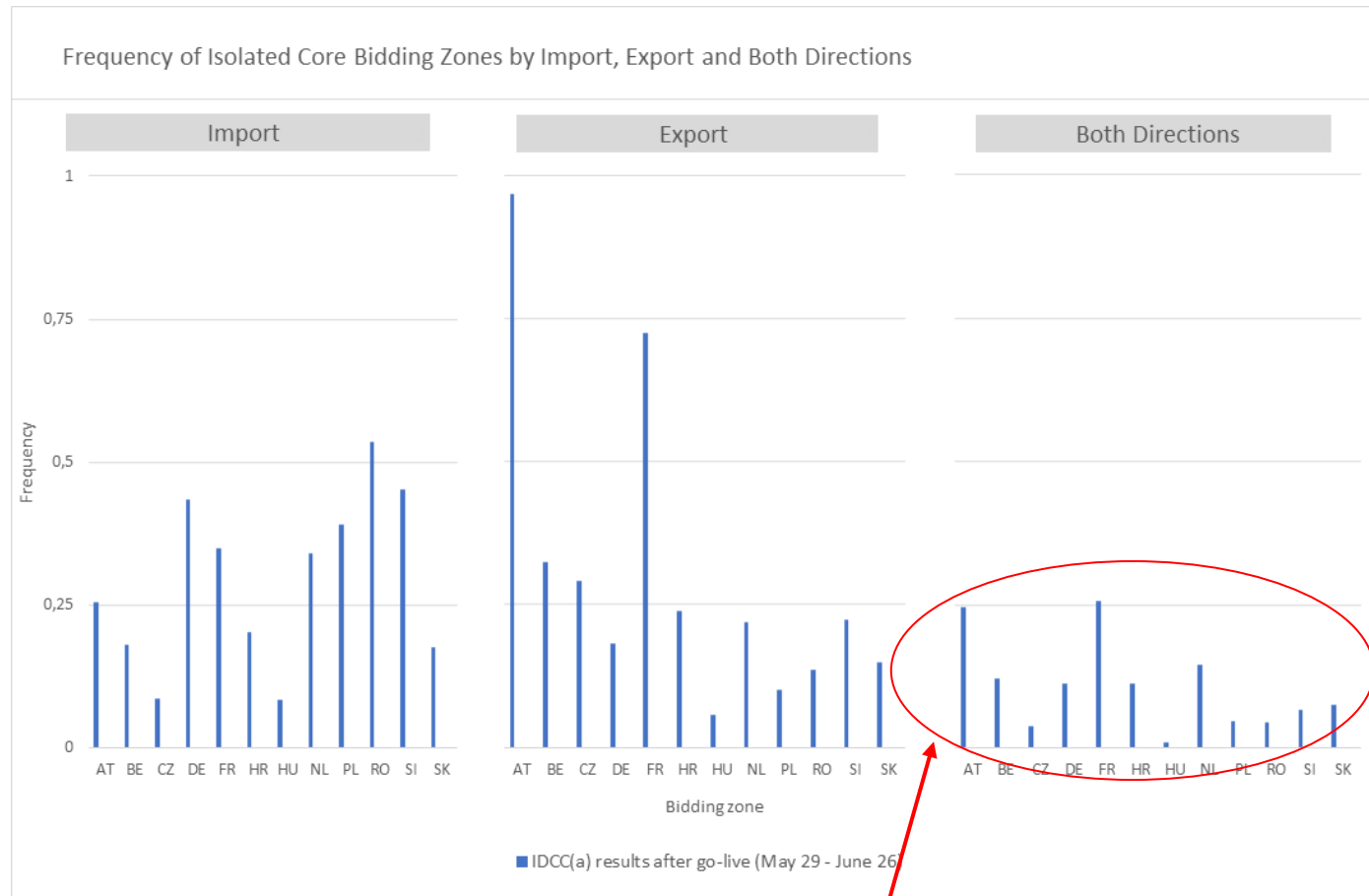


- Frequency of zero ATC on Core level is almost 60% but there are some oriented borders with much lower frequency.

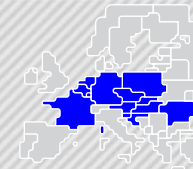
## 2. IDCC



### KPI results IDCC(a) for BD20240529 – BD20240626

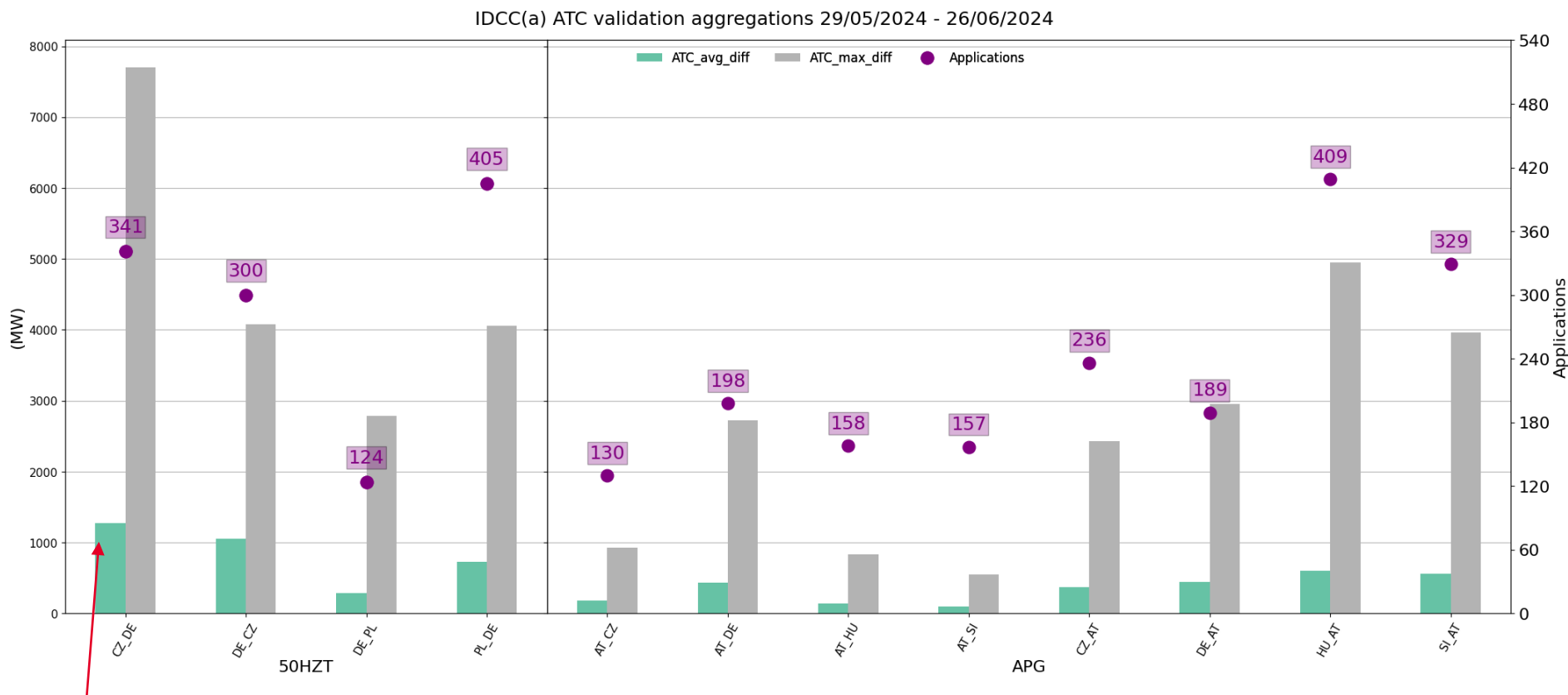


- Frequency of isolation over 50% is in import direction for RO and in export directions for AT and FR.
- Total isolation in both directions is lower than 26% for all bidding zones.

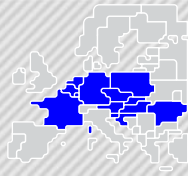


## KPI results IDCC(a) for BD20240529 – BD20240626

## Average applied reductions based on validation



- The green bar indicates the average ATC reduction for a certain border, e.g. For the CZ-DE border the average reduction due to ATC validation was around 1200 MW.
- ATC Max means the maximum ATC reduction for a single TS (CZ-DE border 7600MW)
- For the CZ-DE border there were 341 applications of ATC validation.



### Post go-live status IDCC(b): KPIs - Background and summary - BD20240529 – BD20240626

#### Background on IDCC(b) results from BD20240529 – BD20240626 (27 BDs)

- The IDCC(b) KPI results are presented as of the go-live end of May until BD20240626
- On BDs 09/06 and 17/06 IDCC(b) process failed, therefore these 2 BDs are not included in the results.
- The IDCC(b) capacities will be provided to IDA2 for allocation at 22:00.

#### Summary of the observed results

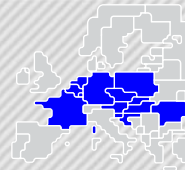
- Results for IDCC(b) are in line with the results observed in the EXT//run.
- In general, the IDCC(b) results are quite positive with 80% frequency of positive ATC over all borders and average ATC value on Core level around 700 MW.
- BZ isolation in both directions is still observed but with lower frequency than in IDCC(b) // run.
  - BZ isolation is still actively monitored, and the mitigations measures will be presented separately

#### Parameter settings of TSOs for IDCC(b)

- $\approx 5\%$  FRM for all CNECs
- 3% PTDF Threshold and 50MW RAM\_ID threshold
  - PTDFs of CNECs with RAM below the RAM\_ID threshold of 50 MW will be set to zero for ID ATC extraction if they are below the PTDF threshold of 3%.

#### Detailed KPI results for IDCC(b) are available in the next slides

## 2. IDCC

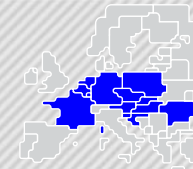


### KPI results IDCC(b) for BD20240529 – BD20240626

IDCC(b) KPIs since go-live (29/05 - 12/06):

Quality	29.05.24	30.05.24	31.05.24	01.06.24	02.06.24	03.06.24	04.06.24	05.06.24	06.06.24	07.06.24	08.06.24	09.06.24	10.06.24	11.06.24	12.06.24
Number of TS - Empty domain	0	0	0	10	9	0	2	5	0	0	4		2	3	1
Number of TS - Well-formed FB Domain with negative RAM	14	15	23	10	11	17	11	16	24	23	10		22	14	17
Number of TS - Well-formed FB Domain with only positive or zero RAM	10	9	1	4	4	7	11	3	0	1	10		0	7	6
Number of CNECs with negative RAM value @RefProg_ID (average per TS)	4	2	8	4	21	5	3	5	4	19	7		45	5	3
Minimum RAM value of all CNECs @RefProg_ID (average per TS)	-86	-52	-263	-350	-257	-294	-99	-233	-201	-189	-208		-411	-69	-100
Number of presolved CNECs (average per TS) - excluding empty domains	121	121	116	105	96	101	118	101	105	108	99		99	86	96
Number of vertices (average per TS) - excluding empty domains	1352708	1313815	1066556	676158	524977	690084	1558722	856035	957549	986597	916414		799786	539802	534813
Min ATC per border from all TS (average on all borders)	-96	95	34	-517	-371	-171	-363	-466	-74	-150	-672		-291	-459	-74
Average ATC per border from all TS (average on all borders)	533	627	660	414	462	473	475	366	470	443	355		345	376	525
Max ATC per border from all TS (average on all borders)	1431	1405	1581	1510	1820	1358	1247	1308	1223	1352	1302		1171	1314	1279
Percentage of TS with ATC > 0 (considering all borders)	89%	90%	87%	90%	80%	85%	88%	76%	79%	75%	76%		66%	80%	89%
Percentage of TS with ATC = 0 (considering all borders)	4%	3%	3%	3%	3%	4%	2%	8%	4%	4%	2%		2%	3%	5%
Percentage of TS with ATC < 0 (considering all borders)	8%	7%	10%	7%	17%	11%	10%	16%	18%	22%	22%		32%	17%	7%
Isolated Bidding Zones in both directions (number of occurrence per BD)	0	0	0	0	0	0	0	0	0	0	3		0	4	0

- On business days 09/06 IDCC(b) process failed → IDCC(a) leftover capacities were used for IDA2.
- In the first 2 weeks, occurrence of empty domains was higher than 10 on one BD.
- Frequency of positive ATC values per day is in the range from 66% to 90% (significantly better than for IDCC(a) results).
- Low numbers of isolated bidding zones in both direction (significantly better than for IDCC(a) results).



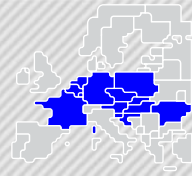
## KPI results IDCC(b) for BD20240529 – BD20240626

IDCC(b) KPIs since go-live (13/06 - 26/06):

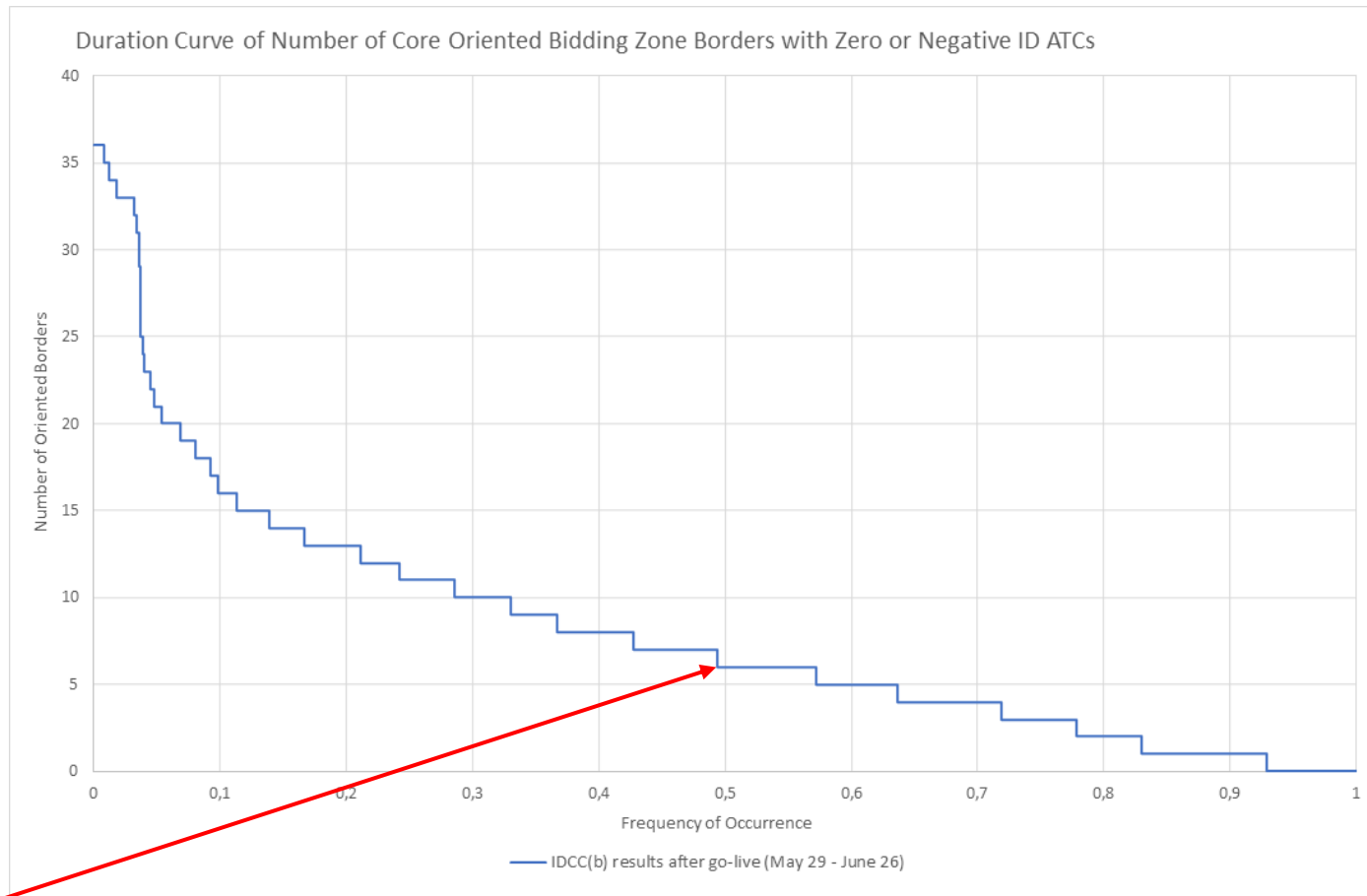
Quality	13.06.24	14.06.24	15.06.24	16.06.24	17.06.24	18.06.24	19.06.24	20.06.24	21.06.24	22.06.24	23.06.24	24.06.24	25.06.24	26.06.24
Number of TS - Empty domain	1	0	0	0		0	0	1	0	3	0	0	0	0
Number of TS - Well-formed FB Domain with negative RAM	19	10	12	11		24	23	23	24	20	24	22	19	18
Number of TS - Well-formed FB Domain with only positive or zero RAM	4	14	12	13		0	1	0	0	1	0	2	5	6
Number of CNECs with negative RAM value @RefProg_ID (average per TS)	9	3	15	3		38	12	20	38	19	4	2	3	3
Minimum RAM value of all CNECs @RefProg_ID (average per TS)	-63	-27	-116	4		-201	-108	-114	-291	-155	-187	-119	-27	-48
Number of presolved CNECs (average per TS) - excluding empty domains	110	111	113	117		103	102	98	114	100	112	116	128	125
Number of vertices (average per TS) - excluding empty domains	985408	886644	974791	1180909		817074	863330	812883	1225358	621327	743958	1175832	1473894	1206707
Min ATC per border from all TS (average on all borders)	71	100	-183	66		-153	-81	-96	-201	-187	-1503	11	134	33
Average ATC per border from all TS (average on all borders)	581	595	467	563		438	537	535	481	421	-484	547	687	710
Max ATC per border from all TS (average on all borders)	1292	1352	1357	1470		1256	1398	1604	1435	1418	1027	1382	1287	1661
Percentage of TS with ATC > 0 (considering all borders)	88%	83%	85%	91%		67%	73%	70%	78%	75%	11%	81%	92%	82%
Percentage of TS with ATC = 0 (considering all borders)	5%	13%	0%	3%		5%	5%	0%	1%	2%	0%	6%	2%	4%
Percentage of TS with ATC < 0 (considering all borders)	7%	4%	15%	6%		29%	22%	30%	22%	24%	89%	13%	6%	13%
Isolated Bidding Zones in both directions (number of occurrence per BD)	0	24	0	0		1	0	0	0	1	140	3	0	0

- On business days 17/06 IDCC(b) process failed → IDCC(a) leftover capacities were used for IDA2.
- Results of 23/06 were negatively impacted by application of DA domain AAC fallback for all timestamps (this fallback means that DA FB domain based on D2CF was taken as a basis and shifted to the latest AAC before ID ATC extraction).
- Occurrence of empty domains is very rare.
- Frequency of positive ATC values per day is in the range from 67% to 92% (significantly better than for IDCC(a) results).
- Low numbers of isolated bidding zones in both direction (significantly better than for IDCC(a) results).

## 2. IDCC

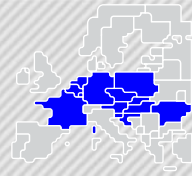


### KPI results IDCC(b) for BD20240529 – BD20240626

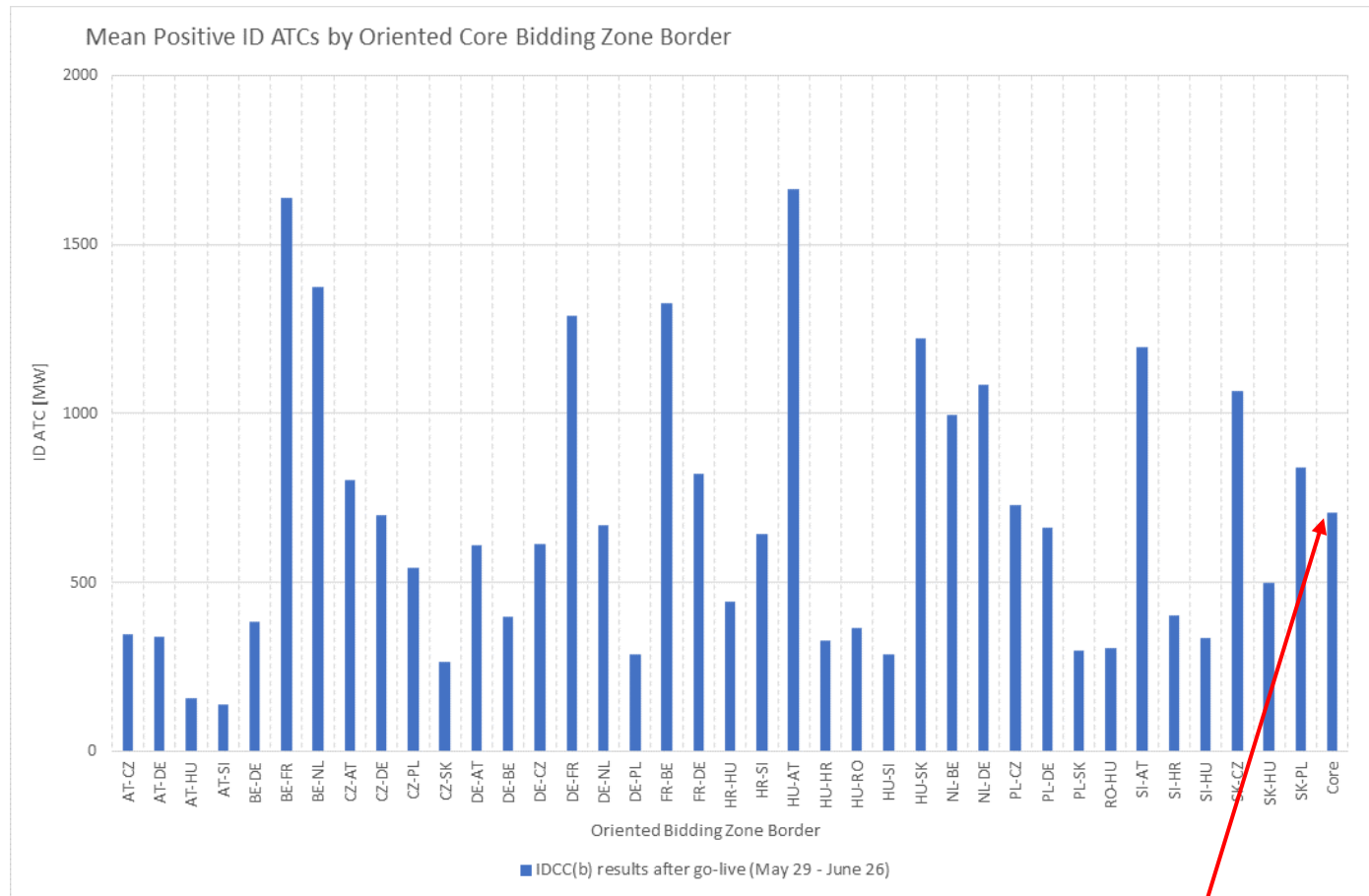


- 50% of the time there are 6 or less borders that have simultaneously zero or negative ATC values. It's much better than for IDCC(a).

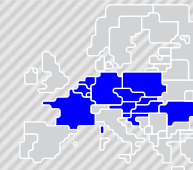
## 2. IDCC



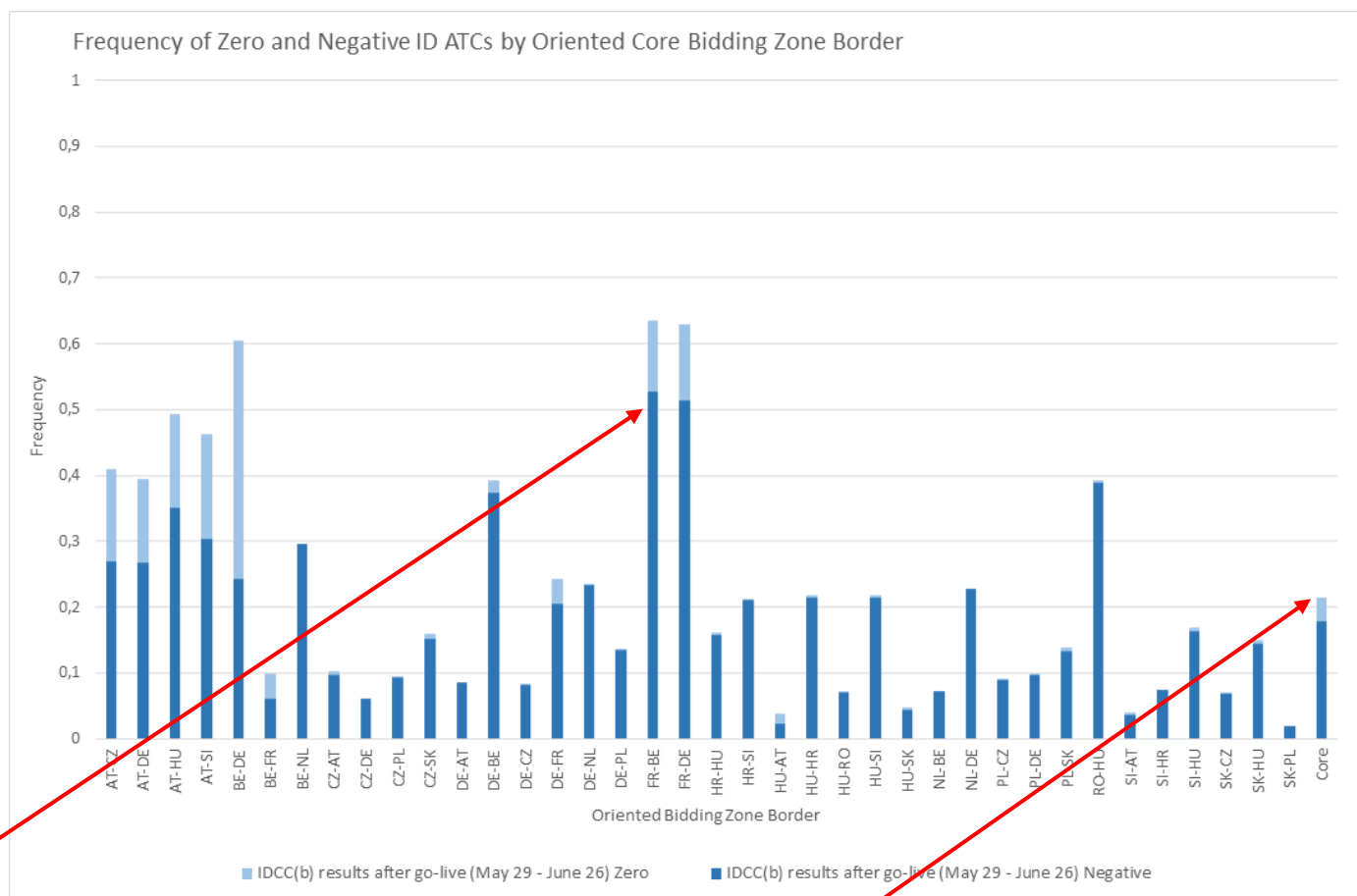
### KPI results IDCC(b) for BD20240529 – BD20240626



- Mean positive ATCs are in the range from 170 to 1700 MW with average value on Core level 700 MW.

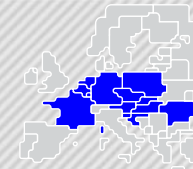


## KPI results IDCC(b) for BD20240529 – BD20240626

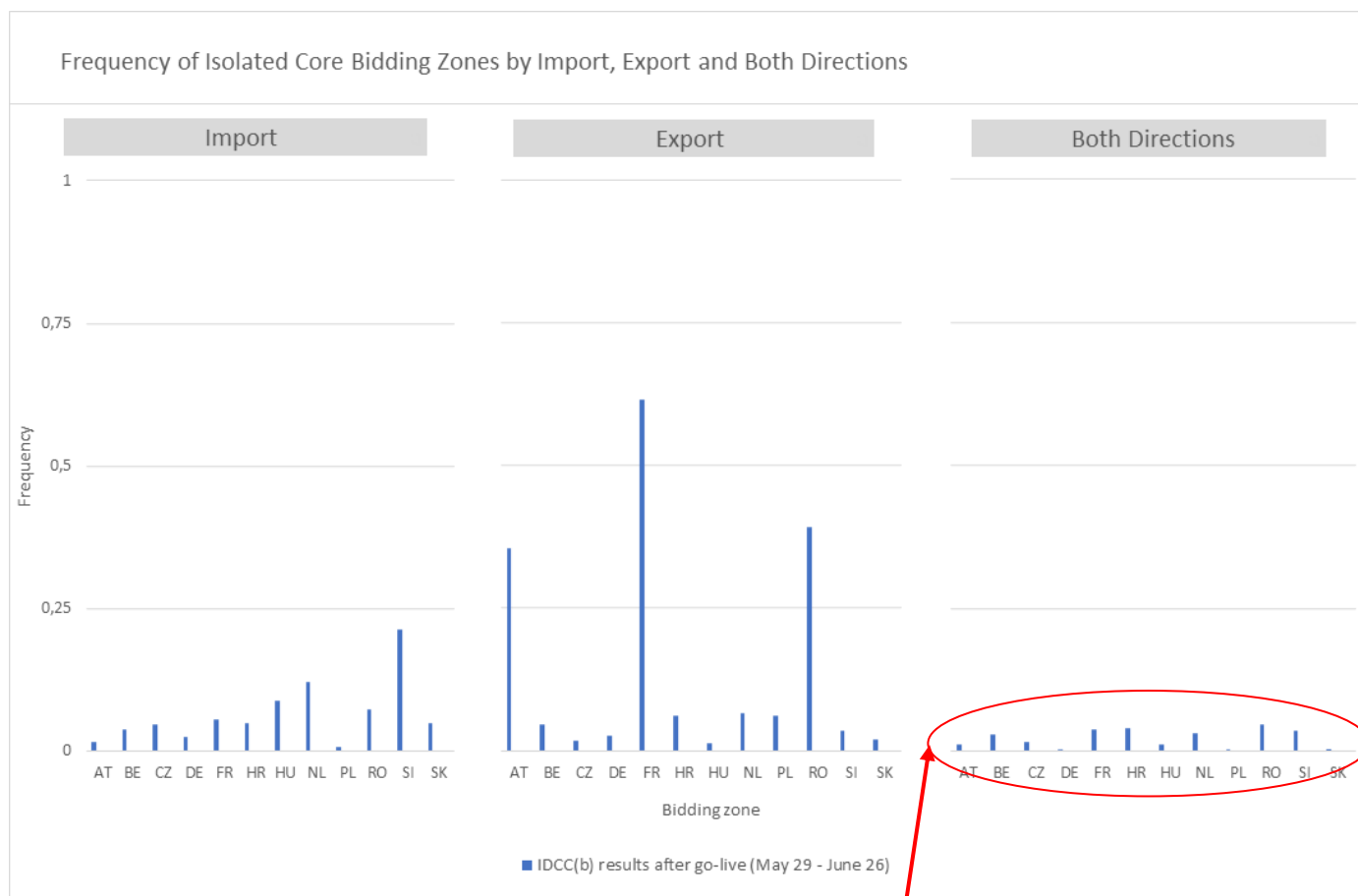


- Frequency of non positive ATCs in IDCC(b) is below 40% for most of the oriented BZ borders, except for FR export directions where it is over 50%.
- On Core level, the frequency of non-positive ATCs is 21%.

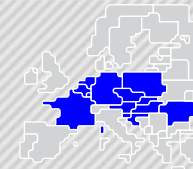
## 2. IDCC



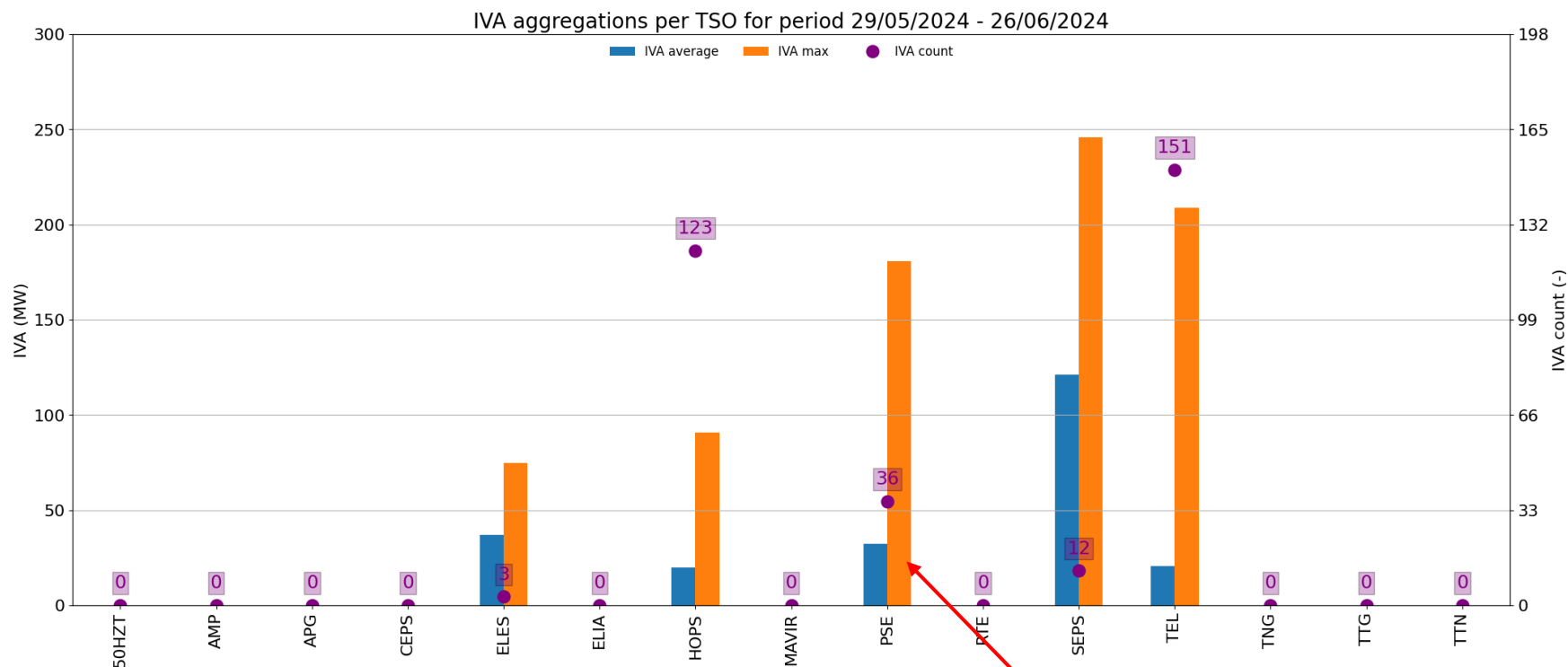
### KPI results IDCC(b) for BD20240529 – BD20240626



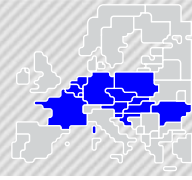
- Highest frequency of isolation is in export direction from FR, AT and RO.
- The frequency of isolation in both directions is below 5% for all bidding zones.



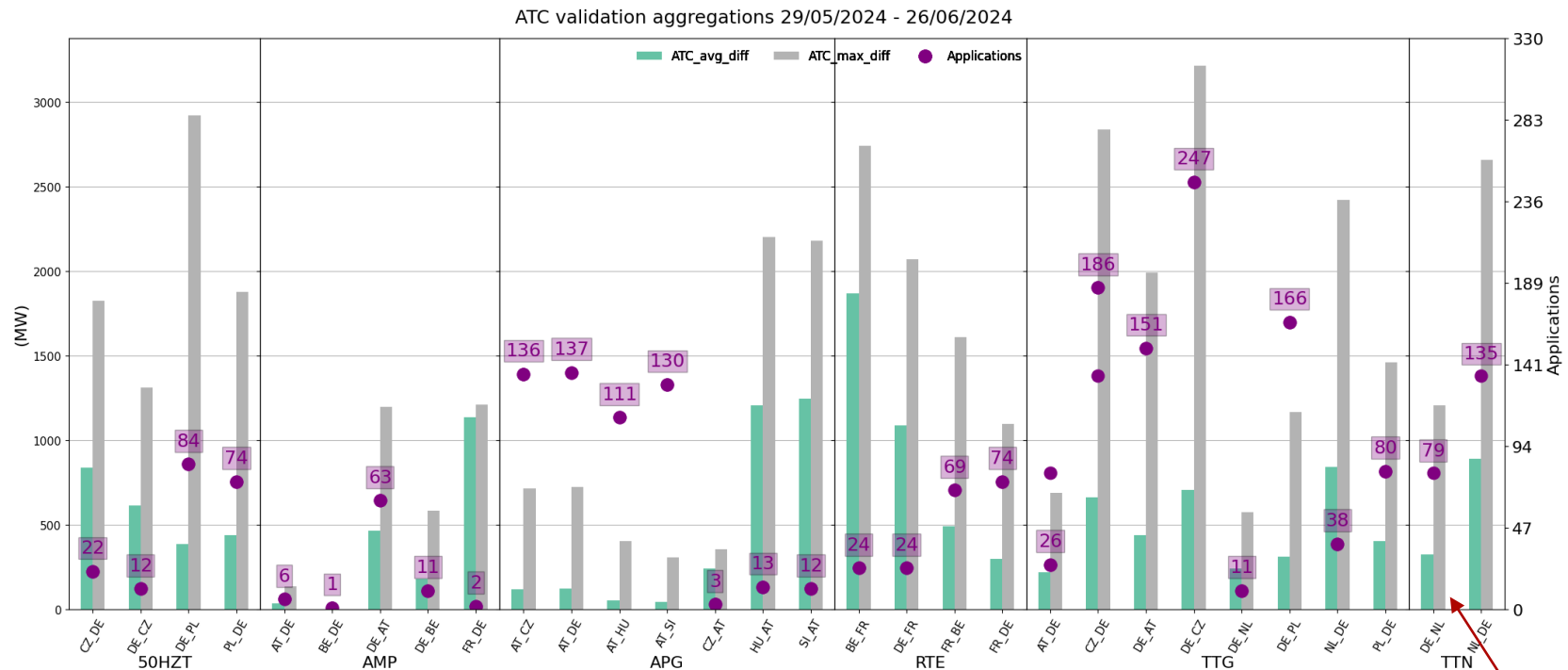
## KPI results IDCC(b) for BD20240529 – BD20240626



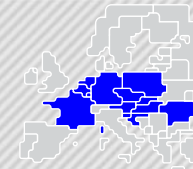
- The blue bar indicates the average IVA reduction for a certain TSO, e.g. For the PSE border the average reduction due to IVA validation was around 35 MW.
- IVA Max means the maximum IVA reduction for a single TS (PSE border 190 MW)
- For the PSE there were 36 applications of IVA validation.



## KPI results IDCC(b) for BD20240529 – BD20240626



- The green bar indicates the average ATC reduction for a certain border, e.g. For the DE-NL border the average reduction due to ATC validation was around 400 MW.
- ATC Max means the maximum ATC reduction for a single TS (DE-NL border 1300 MW)
- For the DE-NL border there were 79 applications of ATC validation.



### Capacity improvement study scope and BZ isolation mitigation measures

#### Reminder

- On 12/03 in Core CG, market parties were informed by TSOs on the root cause of bidding zone isolations in IDCC(b), namely the occurrence of pre-congestion in the grid model upon which the IDCC(b) process is run.
- During Core CG 06/05 market parties requested an update on the BZ isolation mitigations measure in July.

TSOs are investigating measures to mitigate BZ isolation and to increase capacity that is made available to the market on the short term. Measures that are currently investigated are:

- Measures aimed at solving pre-congestion, either directly in the DACF or by tweaking the capacities
  - IT and process optimisation allowing to take into account the most recent grid information
  - Investigate changes in processes to allow introducing more remedial actions in DACF.
  - Test additional ID capacity against operational security
- Improvement of ATC extraction

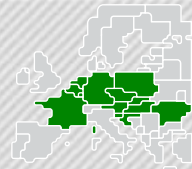
Additionally, Core TSOs are preparing the capacity improvement study as required by Art 25 of the ID CCM to, over time, reach the minimum capacity threshold of 70% pursuant to Article 16(8) of Regulation 2019/943, which requires the following topics to be investigated:

- Removal of non-Core interconnector from list of critical network elements
- Application of remedial actions closer to real time
- Targeted investments in the grid infrastructure
- Alternative bidding zone reconfigurations

#### Next steps

- July 2024: Core TSOs to finalise the scope and planning of the common capacity improvement study
- October Core CG: Core TSOs to follow up on BZ isolation mitigations and present KPI on pre-congested CNEs—feedback/questions by MPs; status update by TSOs,
- 01/04/2025: Core TSO to provide capacity improvement study results to Core NRAs and ACER according to ID CCM Art. 25.

### 3. AOB & closure



#### Next meeting and communication channels

##### Next Core Consultative Group in 2024

- 11/10/2024 – regular CG meeting, physical in Brussels (Airport)

##### Existing Core communication channels

###### Core Consultative Group mailing list

- Register for future updates by subscribing to <https://magnusenergypmo.hosted.phplist.com/lists/?p=subscribe>

###### Core section on ENTSO-E website

- Upload of methodologies and reports on public consultations, current status of the Core CCR program, CG minutes
- Link: [https://www.entsoe.eu/network\\_codes/ccr-regions/#core](https://www.entsoe.eu/network_codes/ccr-regions/#core)
- Work is ongoing to update the website with the IDCC processes. This is planned to be finalized prior to go-live.

###### ENTSO-E newsletter

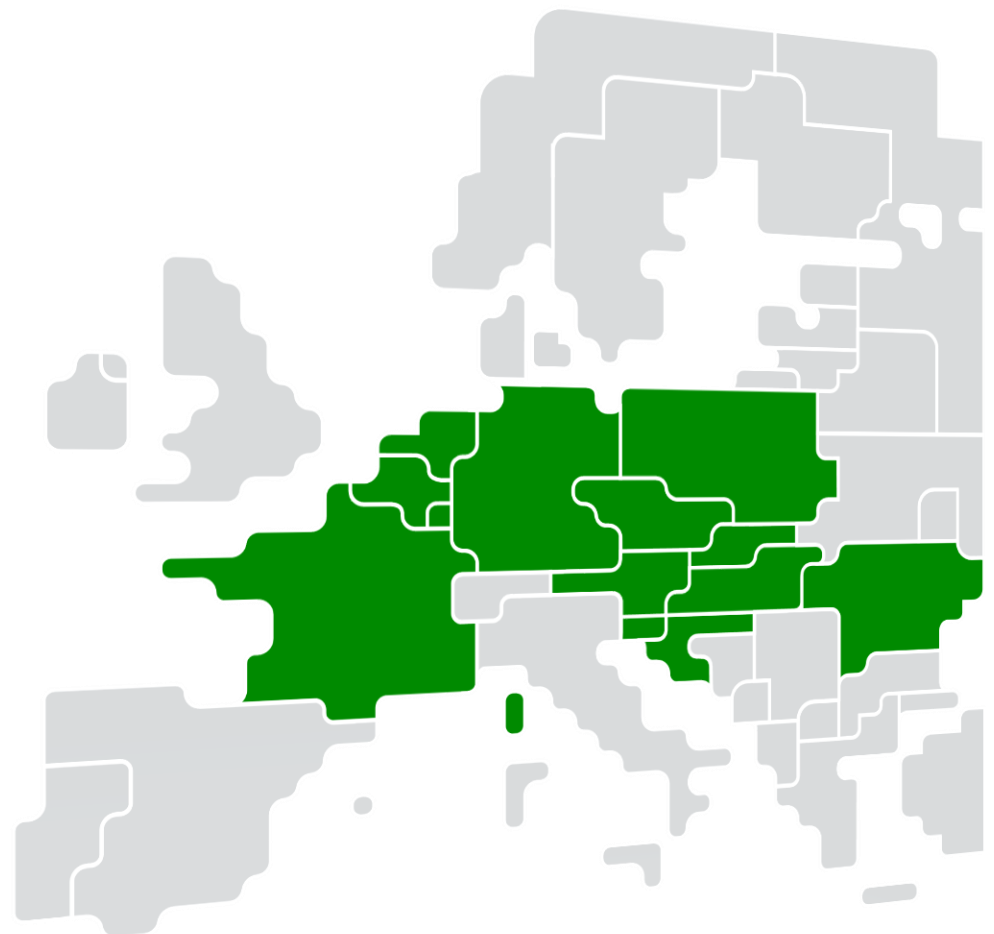
- Regular updates on the different CCRs (e.g., submitted methodologies, launch of public consultations)
- Subscription via <https://www.entsoe.eu/contact/>

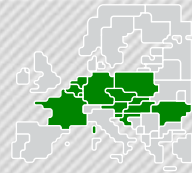
##### Q&A forum on JAO website

- Provides space to Market Participants to ask questions about the External Parallel Run and other relevant topics:
- Link: <http://coreforum.my-ems.net/>
- Efforts are ongoing to ensure questions are answered within a month.



## APPENDIX



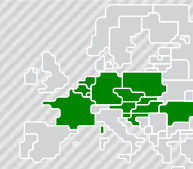


## Scope of discussions

### Scope of discussions Consultative Group/Core CCR vs. MCCG/MCSC

- As to ensure clear alignment, the following table aims to clarify which topics and discussions fall within the scope of CG/Core versus MCCG/MCSC. Only the main/overlying topics currently discussed in the respective projects are listed.
- The stakeholder managers of the respective projects and fora are in direct alignment to ensure any questions outside “their” scope can be redirected accordingly.

	Core CCR	MCSC
General Scope	<ul style="list-style-type: none"><li>• Capacity calculation</li></ul>	<ul style="list-style-type: none"><li>• Capacity allocation</li></ul>
Intraday Auctions (IDA)	<ul style="list-style-type: none"><li>• Capacity calculation (IDCC)</li></ul>	<ul style="list-style-type: none"><li>• Timings</li><li>• Products &amp; user interfaces</li><li>• Central testing</li></ul>
Advanced Hybrid Coupling	<ul style="list-style-type: none"><li>• Design &amp; Implementation into DACC</li><li>• Impact assessment</li></ul>	<ul style="list-style-type: none"><li>• Testing allocation algorithm</li><li>• Central testing</li></ul>
15 min MTU	<ul style="list-style-type: none"><li>• Regional testing</li></ul>	<ul style="list-style-type: none"><li>• Timings</li><li>• Products &amp; user interfaces</li><li>• Central testing</li></ul>



ACER	Agency for the Cooperation of Energy Regulators	IGM	Individual Grid Model
AHC	Advanced Hybrid Coupling	IVA	Individual Validation Adjustment
BZ	Bidding Zone	KPI	Key Performance Indicator
CACM	Capacity Allocation and Congestion Management	LF-SA	Load Flow Security Analysis
CC	Capacity Calculation	NRA	National Regulatory Authority
CCR	Capacity Calculation Region	NRAO	Non-costly Remedial Action Optimization
CGM	Common Grid Model	RA	Remedial Action
CGMES	Common Grid Model Exchange Standard	RAO	Remedial Action Optimizer
CNEC	Critical Network Element with a Contingency	RFI	Request for Information
CS	Cost Sharing	RFP	Request for Proposal
CSA	Coordinated Security Analysis	ROSC	Regional Operational Security Coordination
CSAM	Coordinated Security Analysis Methodology	RD&CT	Redispatching and Countertrading
CROSA	Coordinated Regional Operational Security Assessment	RSC	Regional System Operator
DA	Day-Ahead	TSO	Transmission System Operator
ENTSO-E	European Network of Transmission System Operators for Electricity	SHC	Simple Hybrid Coupling
FAT	Final Acceptance Test	SO GL	System Operation Guideline
FIT	Functional Integration Test	SAT	Site Acceptance Testing
FB	Flow Based	SIT	System Integration Testing
GSK	Generation Shift Key	V1/V2	Version 1/ Version 2
GLSK	Generation Load Shift Key	XNE	Cross-border element
IDCC	Intraday Capacity Calculation		