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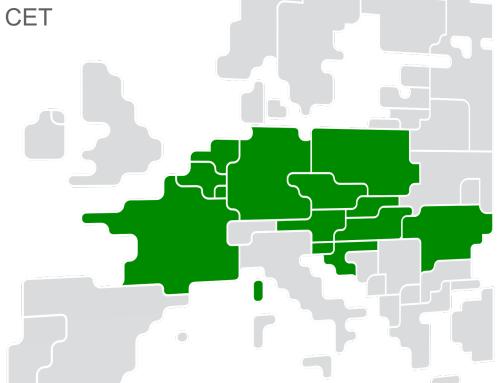
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Core Consultative Group

01 June 2022, 15:00 – 17:00 CET Microsoft Teams meeting



1. Welcome and Introduction





Practicalities, announcements and reminders





Hélène ROBAYEMarket Participants, Eurelectric



Ruud OTTER Core TSOs, Tennet BV

Practicalities

- During meeting
 - Use of 'hand' function will facilitate all participants to have the opportunity to ask questions
 - Use of 'chat' function will give opportunity to address all questions and will facilitate proper tracking and answering
- Follow up
 - o Minutes and final meeting documents will be shared with CCG distribution list
 - JAO Q&A forum
- MS Teams workshop and Q&A will be recorded and made available for all Market Participants

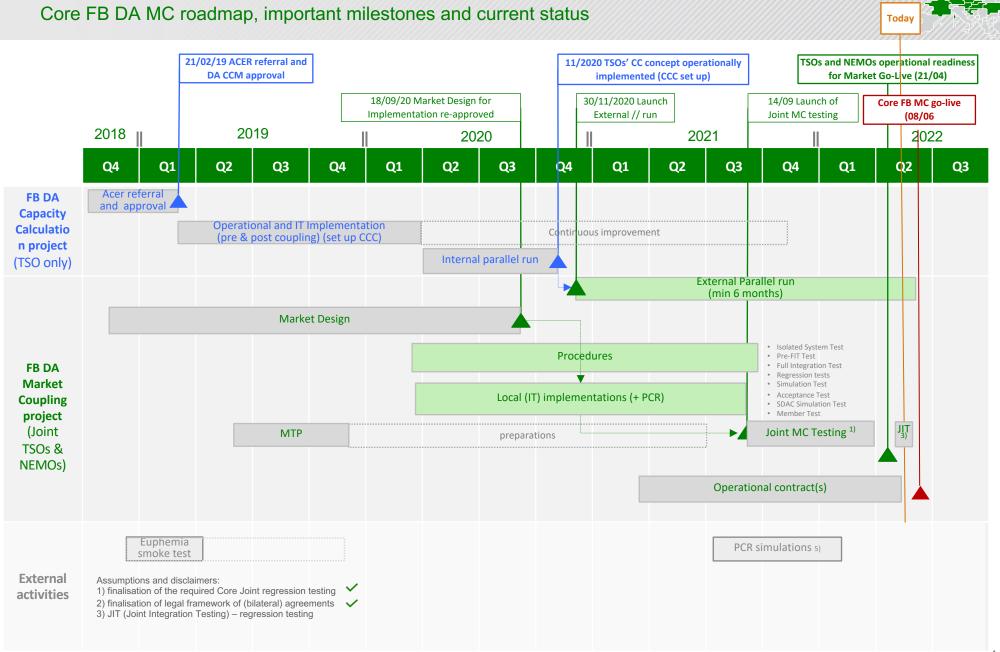
1. Welcome and introduction





Agenda

	SUBJECT	WHO	TIMING
1	Welcome and introductionAnnouncementsAgenda for today	R.OTTER/ H.ROBAYE	15:00 – 15:10
2	 Day Ahead Capacity Calculation & Market Coupling Core FB DA MC roadmap Core FB DA Update on go-live readiness Operational stabilisation of EXT // run ID ATCs after Core Flow based market coupling Reporting on occurrences of RAM lower than 20% of Fmax Final High Level HLBP timings Update on Publication Tool 	M.PREGL G. MEUTGEERT G. MEUTGEERT A.KIRALY	15:10 – 16:50
3	AOB & closure • Next CCG meeting	R.OTTER/ H.ROBAYE	16:50 – 17:00



M.PREGL

M.PREGL

2. Day Ahead Capacity Calculation & Market Coupling

Core FB DA MC roadmap, important milestones and current status



Reminder

- Core project parties communicated on 21/04/2022 to stakeholders the new go-live date 08 June 2022 (Trading Day for delivery on 09 June 2022).
 - Core TSOs worked intensively on solutions to resolve the remaining concerns raised by some parties with regards to certain aspects of the Flow Based Day Ahead Capacity Calculation.
 - o The next steps to adequately address the concerns raised earlier are:
 - The mitigations to further improve operational stability of TSO's capacity calculation were already implemented. In this period two issues occurred with fallbacks for which fixes will be in place before go-live.
 - To further optimise the intraday ATC capacities algorithmic improvements and local validation processes will be implemented before go-live. Further improvements are foreseen to be implemented after go-live.
 - Dedicated reporting to NRAs will be created for all cases with RAM<20% to closely monitor the occurrences and mitigations - this information of RAM<20% is already publicly available in the publication tool.
 - o Improvements in the publication tool were implemented
- Project parties feel confident about going live, also considering the current market circumstances. Moreover, all parties see a significant benefit in the experience to gain during the summer period, prior to entering fall/winter.

Status

- All formal project deliverables and main milestones are reached, with the most recent ones
 - o Core Joint Integration Testing regression tests (16/05-19/05) successfully finished
 - o Common Contracts and bilateral contracts near to final and on-track for go-live
- Core Project parties are in the latest phase of preparing the Core Flow based go-live
- The (technical) go-live script is now followed & monitored and this covers all (technical) preparations needed for the go-live

M.PREGL

2. Day Ahead Capacity Calculation & Market Coupling

Core FB DA MC roadmap, important milestones and current status



Next steps

- 21/04/2022– Approval go-live and start final go-live preparations by Core Project parties DONE
- 24/05/2022 Core JSC sign-off testing (regression)
- 07/06/2022 (D-2 Go live) Final Operational Confirmation Go-live
 - This is a formal (operational) step to commence the Core FB DA process for 08/06 trading day
- 08/06/2022 Go-Live (08/06 trading day for delivery on 9th of June 2022)

G. MEUTGEERT



Update on go-live readiness: Background

Background

- On 01/04 EFET, IFIEC & MPP on behalf of MPs called for a postponement of Core Flow-Based market coupling Go-Live.
- Core project parties on 08/04 <u>announced</u> the postponement of the Go-Live due to concerns from some TSOs & NEMOs
 - Timing of the Core FB DA go-live considering the current market context in combination with the other concerns listed below
 - The not sufficiently demonstrated stability of the DA pre-market coupling process in Flow-Based DA capacity calculation, and the impact on capacities when fallbacks need to be applied
 - The impact on ID ATC capacities, for which the methodology will be known mid-April and for which TSOs possibly need to develop tools for maximizing capacities while maintaining system security.
 - o Issue of undue discrimination mentioned by RTE & ELIA triggered by too low capacities provided on critical network elements
- On 21/04 Core project parties announced the new Go-Live date for 08/06 and communicated the next steps to adequately address the concerns raised earlier:
 - The mitigations to further improve operational stability of TSO's capacity calculation were already implemented. In this period some issues occurred with fallbacks for which fixes will be in place before go-live.
 - o To further optimise the intraday ATC capacities, algorithmic improvements and local validation processes will be implemented before go-live. Further improvements are foreseen to be implemented after go-live.
 - Dedicated reporting to NRAs will be created for all cases with RAM<20%*Fmax to closely monitor the occurrences and mitigations this information of RAM<20%*Fmax is already publicly available in the publication tool.
 - o Improvements in the publication tool were implemented

On 09/05 EFET, IFIEC & MPP on behalf of MPs sent a request and detailed questions relating to the new Go-Live date for Core Day-Ahead flow-based market coupling on 8 June 2022

Core TSOs provide in the next slides clarifications on the progress made in full transparency and this is also addressing all questions raised in the letter from EFET, IFIEC & MPP





Operational stabilisation of EXT // run

Core TSOs have in detail monitored the operational stability throughout the period of the internal and external parallel run and increasingly investigated the details towards the Core FB DA go-live.

In the end of 2021, there were observations that individual validation fallback can have a high impact on capacities. Core TSOs therefore defined several mitigations in the beginning of 2022:

- Local mitigations and improvements to avoid the need to use the fallback for Individual Validation
- Adjustments in the method of the fallback for individual Validation (e.g. having a min RAM of 20%*Fmax for most TSOs)

The final mitigations and improvements were implemented in the month before the initial go-live (March), which left for some TSOs insufficient time to gain the needed comfort that the mitigations were sufficient / successful.

Core TSOs on the below to create sufficient comfort for those TSOs before deciding on a new go-live date, which was one of the criteria to decide on the new go-live date. This comfort was proven for all TSOs during 24/03 – 21/04

- 4 weeks of operational stability
- Meeting the defined targets for several KPIs
 - o TS without DFP: 100% (target 100%)
 - TS without spanning: 100% (target 97%)
 - o TS without fallback in indiv. val.: 95% (target 100%)
- In this monitoring period, there were only two instance of fallback applied
 - 20/04 DAVinCy TSOs fallback leading to DFP equivalent domains. Mitigations: redundant servers & 24/07 support
 - 24/04 ELIA ultimate fallback applied (little impact on results). Mitigation: update of local tool. A regional IT tool update is also foreseen post go-live to further mitigate the risks

All TSOs consider that the condition on stability of the EXT // run is fulfilled and strive to reach a target of 100% timestamps without DFPs, spanning or ultimate fallbacks.





ID ATCs after Core Flow based market coupling

Core TSOs have a shared view on the challenges related to ID ATC left-over capacities. The values observed in the Ext//run, showed a steep increase in the number of times ID ATC = 0 (26% historical versus 77% //run.)

- Core TSOs therefore agreed on a clear trajectory to achieve reasonably close to historical frequency of ID ATC = 0.
- Core TSOs agreed to
 - update their local parameters (rAMRid & rLTAincl)
 - investigate additional changes in parameters to improve the algorithm for ID ATC extraction to make more efficient usage of available capacities.

Core TSOs also agreed to work further on bilateral increase / decrease processes after go-live to monitor the results and further optimise the initial ID ATCs values.

To select the updated parameters related to the algorithmic improvements, Core TSOs analysed 30 days from Ext//run between Feb – April. The data set was selected to include recent BDs without any central fallbacks (spanning/DFP) or local fallbacks (during individual validation)

The outcomes of this analysis and the improvements will be shown for the following scenarios:

- Historical operational values
- Results without any algorithmic improvements
- Results with algorithmic improvements

Initial ID ATC values will be close to historical values after the improvements, mainly explained due to changed rAMRid & rLTAincl.

- Improved: 36% frequency of ID ATC = 0 & 639 MW average ID ATC
- Historical operational: 46% frequency of ID ATC = 0 & 1035 MW average ID ATC

Note: the analysis is based on historical operational order books and different usage of DA capacities could influence the results





ID ATCs after Core Flow based market coupling

After the ACER decision on the Core ID CCM, each Core TSO concluded on their own local parameters: rAMRid & rLTAincl. These parameters are already applied in the Ext//run since April 4th.

The updated parameters following ID CCM

• rLTAincl, rAMRid,

- influencing the size of FB ID ATC domain used as a basis for ID ATC extraction

	AT	BE	CZ	FR	HR	HU	NL	PL	RO	SI	SK	LU		DE		
	APG	ELIA	CEPS	RTE	HOPS	MAVIR	TenneT NL	PSE	Transelect.	ELES	SEPS	CREOS	TransnetBW	TenneT DE	50 Hertz	Amprion
rAMRid	0,2	0,2	0,7	0,2	0,2	0,2	0,2	0,2	0,2	0,7	0,2	NA	0,2	0,2	0	0,2
rLTAincl	0,5	1	1	1	1	0,2	0,2	0,001	0,2	0,5	0,2	NA	0,2	0,2	0,001	0,2

For rLTAincl, for each border the minimum of values provided by the adjacent TSOs is used. Some factors of borders need to be scaled down to respect the 1500 MW cap for the LTA ID

	AT-CZ: 0,5	BE-DE: 0,2	CZ-AT: 0,5	FR-BE: 1	HR-HU: 0,2	HU-AT: 0,2	NL-BE: 0,2	PL-CZ: 0,001 RO-HU: 0,2	SI-AT: 0,5	SK-CZ: 0,2	DE-AT: 0,2
rLTAincl per border	AT-DE: 0,2	BE-FR: 1	CZ-DE: 0,00	1 FR-DE: 0,2	HR-SI: 0,5	HU-HR: 0,2	NL-DE: 0,2	PL-DE: 0,001	SI-HR: 0,5	SK-HU: 0,2	DE-BE: 0,2
(Harmonised)						HU-RO: 0,2		PL-SK: 0,001		SK-PL: 0,001	DE-CZ: 0,001 DE-FR: 0,2
	AT-SI: 0,5		CZ-SK: 0,2			HU-SK: 0,2					DE-NL: 0,2
											DE-PL: 0,001

These parameters will also be applied as of Core FB DA go-live on 08/06 and will be published on the JAO website.

As per Annex 5(4) of the amended Core ID CCM as decided upon by ACER on Apr 19th 2022, Core TSOs will regularly publish percentage of LTA and MinRAM provided for ID ATC extraction & applied WSUM value





ID ATCs after Core Flow based market coupling

Core TSOs investigated the various parameters relevant for the algorithmic improvements, which are all aimed to make more efficient usage of DA leftover CZC available for ID ATC extraction

Low PTDF threshold

Improvement of objective function

i.e., controlling neglecting of z2z PTDFs to avoid them blocking ID ATCs

WSUM
 i.e., controlling trade-off between min ATC and avg ATC

i.e., restricting min(ATC) part to borders where ATC>0 is possible

Core TSOs selected the parameters, based on the results to strike a balance between using more optimal the available capacities to avoid ID ATC = 0, while ensuring significant flows are not neglected to a large extent.

→ See next slides for outcomes of the analysis performed and the improvements compared to results with algorithmic improvements

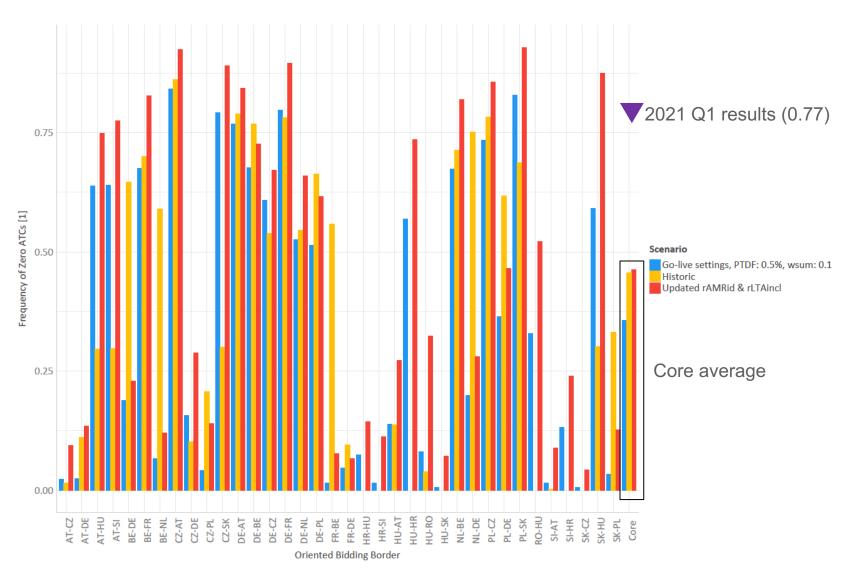
The following values will be applied in the Ext//run as of beginning of June and at Core FB DA go-live as well.

	WSUM	Low PTDF Threshold
Previous	0.5	0
New (go-live)	0.1	0.5%



Results comparison – Frequency of zero ID ATCs

Improved values result in a reduced frequency of Core ID ATC = 0 compared to historical operational values

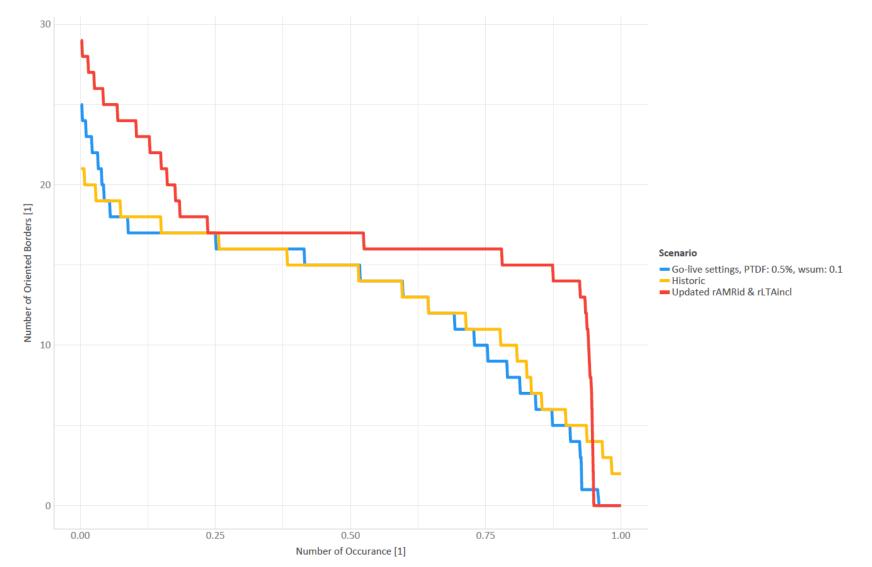






Results comparison – Duration curve of zero ID ATCs = 0

Thanks to the algorithmic improvements, liquidity for cross-zonal exchanges within Core is similar to historical operational values

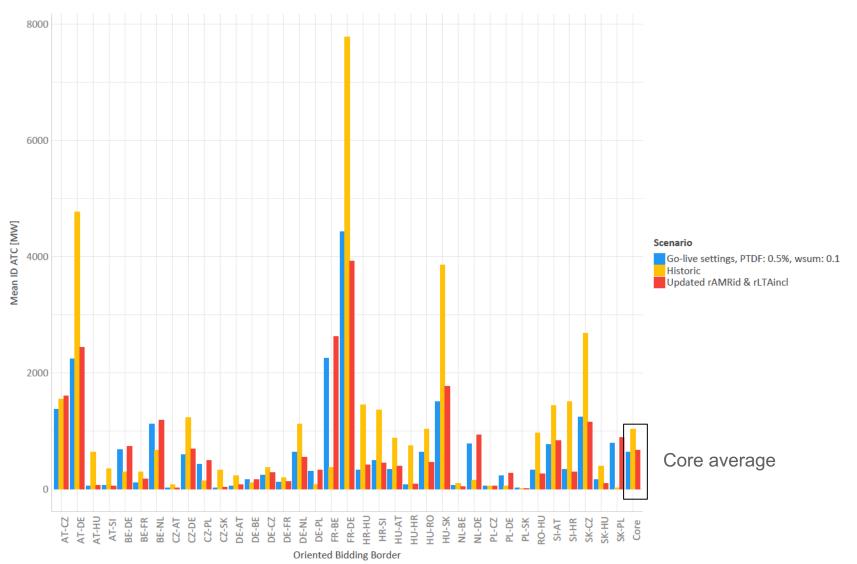


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Results comparison – Average ID ATCs

The change of the WSUM helps to reduce the frequency of ID ATC = 0 and this is justified as it does not have a detrimental effect on the ID ATC average values.

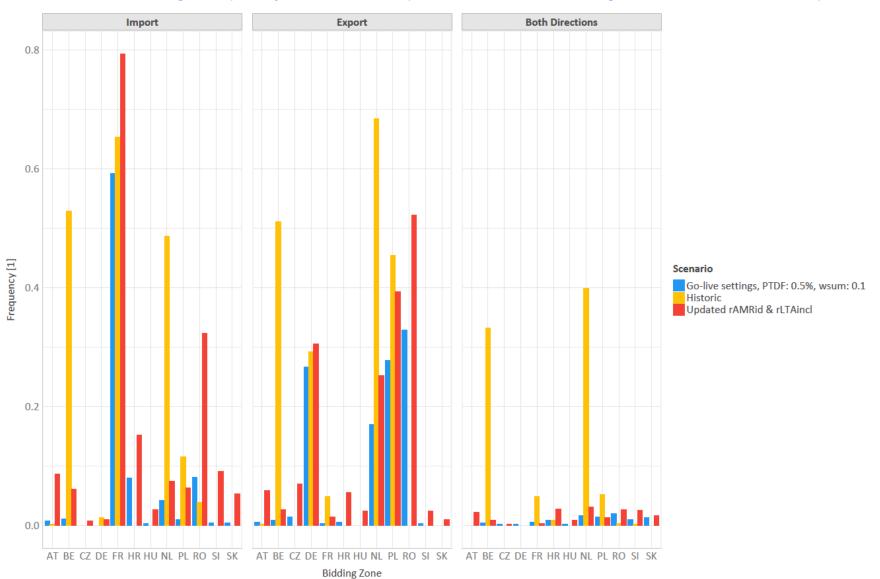


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Results comparison – Bidding Zone Isolation

For BZs that had a high frequency of isolation, improved values show a significant reduction of this phenomenon



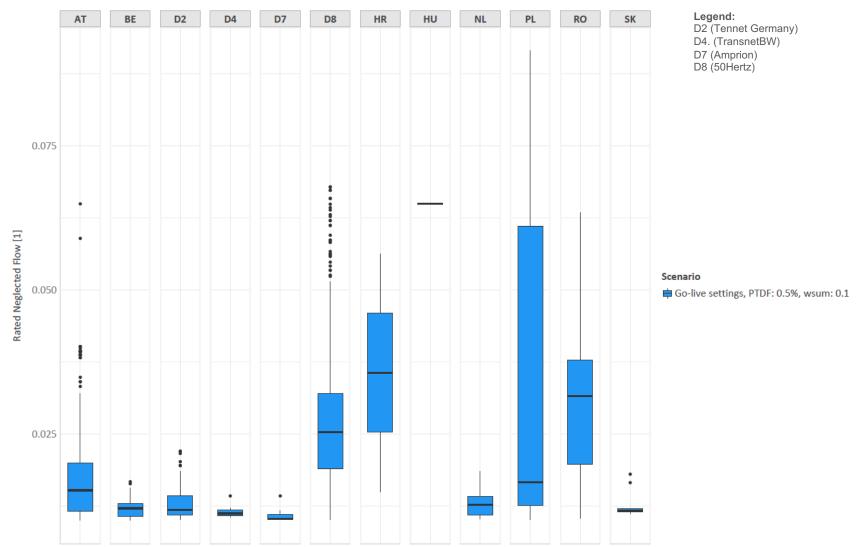




Results comparison – Neglected flows due to low PTDF threshold = 0.5%

To optimize capacity, TSOs accept operational security risks due to a limited amount of neglected flows on CNECs

• TSOs not present on the graph do not have neglected flows >1% of Fmax.



TSO





ID ATCs after Core Flow based market coupling

Complementary to these mitigations and improvements, there are also local / bilateral improvements that are in place to some extent but will be further developed to allow better monitoring and validation of initial ID ATCs.

Bilateral increase / decrease processes

- Some TSOs have a process in place to bilaterally increase capacities in the range of max 300 MW or individually decrease capacities
- Other TSOs initiated the work to implement such process
- CWE increase/decrease process will remain as today in the first period after go-live (multi-lateral validation). The exact
 interpretation of Core ID CCM and impact on tool and procedure is being aligned between respective TSOs, NRAs and ACER

Local validation tools – aiming to further change the parameters to strive for higher capacities, while respecting operational security - disclaimer: ID ATC values might be lowered when there is better visibility on the risks

- There are TSOs that have such a tool in place already or can do this without a tool
- Various TSOs
 - o initiated the work for these tools
 - will further develop this
 - or will monitor the developments in operations and act in accordance

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Reporting on occurrences of RAM lower than 20% of Fmax

In the last period of 2021, Core TSOs observed the high impact that application of that fallbacks can have (i.e., spanning, DFP and ultimate fallback of Individual Validation), which triggered further monitoring.

Referring to ACER's decision, the motivation of the minimum RAM of 20% of Fmax rule can be understood as it being an essential feature to allow flow-based market coupling to function efficiently (avoiding empty or very small domains), and in turn contribute to avoid undue discrimination (where internal trades and trades outside of the Core region are prioritised with respect to trades inside the Core region).

The Core DA CCM does allow Core TSOs to reduce the RAM below the "absolute minimum" of RAM of 20% of Fmax, but this is to be monitored and where feasible to be avoided.

To create transparency on this aspect, a targeted reporting on the occurrence of RAM below 20% is put forward by Core TSOs

This report will be created and published on a monthly basis – see Annex March & April and cover

- All CNECs with RAM < 20%Fmax
- Distinct MTUs (All CNECs with RAM < 20%Fmax)
- Only presolved CNECs with RAM < 20%Fmax
- Distinct MTUs (Presolved CNECs with RAM <20% Fmax)
- CNECs with 0 RAM capacity
- Distinct MTUs (CNECs with 0 RAM capacity)

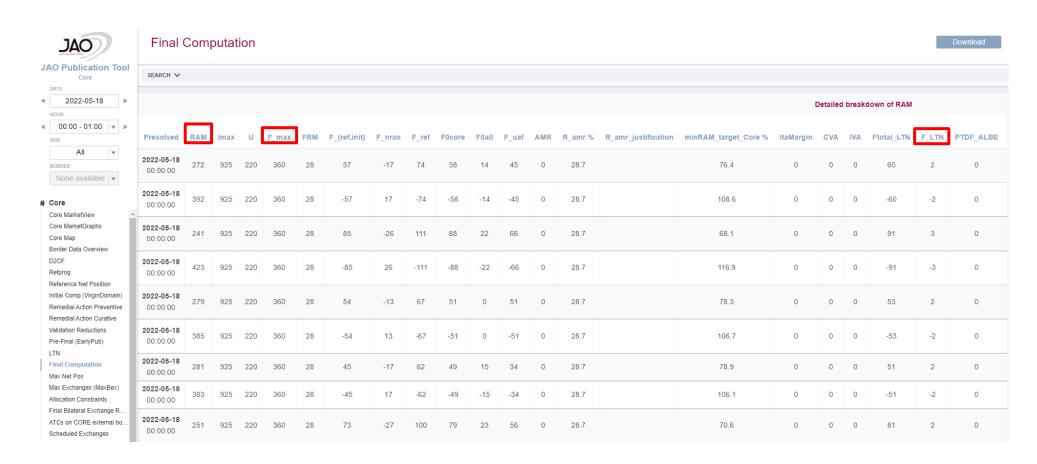
Market Parties can already monitor daily the RAM below 20% on the PuTo – see next slide.

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Reporting on occurrences of RAM lower than 20% of Fmax

Underlying data is available on PuTo daily (in the Final computation place) MP can process this data by checking if: (RAM+F_LTN) < 20% F_max







HLBP timings of Core DACC process

The Core FB DA Capacity Calculation timings were presented on <u>07/10/2020 Core CG meeting</u>.

Core TSOs would like to communicate transparently on the final timings that will be used as of Go Live for the Core DA operational process.

Core DA FB CC HLBP (all timings in CET time zone)										
Process step	Day	Target start time (TST)	Target end time (TET)	Critical End Time (CET)	Sub-process					
1	D-2	15:00	19:00	22:00	D-2 merging preparation					
2	D-2	15:05	19:00	22:05	Initial TSO Receiving					
3	D-2/D-1	19:00	20:00	01:20	D2CF merging					
4	D-2/D-1	20:00	21:00	02:35	Second TSO Receiving					
5	D-2/D-1	21:00	21:40	03:30	Initial FB computation					
6	D-2/D-1	21:00	21:40	03:30	CNEC Selection					
7	D-2/D-1	21:40	00:35	04:20	Remedial Action optimizations & selection					
8	D-1	00:35	00:35	04:30	Intermediate Receiving & Data Gathering					
9	D-1	00:35	01:10	05:25	Intermediate FB computation					
10	D-1	01:10	01:45	06:05	Simple Coordinated Validation (RA potential)					
11	D-1	01:45	02:00	06:20	Simple Coordinated Validation (Advices)					
12	D-1	02:00	07:15	09:00	Individual Validation					
13	D-1	07:15	07:45	09:55	Pre-Final FB computation					
14	D-1	07:45	09:35	10:15	Final Receiving & Data gathering					
15	D-1	09:30	10:00	11:15	Final FB computation					
16	D-1	10:00	11:35	11:45	NEMO Receiving & Data Gathering					
17	D-1	11:35	11:55	12:05	Congestion Income Allocation					
18	D-1	12:45	15:25	15:30	Validation of Market Coupling Results					
19	D-1	12:57	13:08	16:00	Distribution of Market Coupling Results					
20	D-1	13:08	13:40	16:25	Intraday ATC / NTC Extraction					
21	D-1	13:40	13:50	16:45	Export CGM at the Market Clearing Point					
22	D-1	13:50	14:00	17:05	Distribute Inputs for Intraday Process					

A. KIRALY



Update on the Publication Tool

As part of the CORE go-live the production version of the Publication Tool (PuTo) will also be made available to the Market Participants on the JAO website.

It will be the same version that is present on the current external parallel run environment and will also include the feature of the monitoring tool which will help with identifying to the missing data.

The link to the production version of the tool and the webservices will be made available latest on the 7th of June under http://www.jao.eu/publication-tool

Besides including the CORE region related information the tool also includes data regarding certain external borders: http://www.jao.eu/news/market-communication-22

3. AOB & closure

R.OTTER/ H.ROBAYE



Next meeting and communication channels

Next Core Consultative Group:

- Proposal for a next Core CG in October '22?
- Follow up of the ACER LTCC workshop of 24 May 2022

Existing Core communication channels Core Consultative Group mailing list

Register by sending an email to <u>CoreCG@magnus.nl</u>

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

ENTSO-E newsletter

- Regularly 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/









































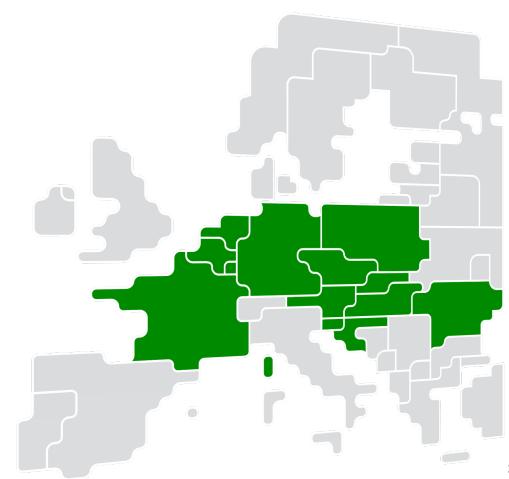












Appendix

Glossary



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	SHC	Simple Hybrid Coupling
	Electricity	SO GL	System Operation Guideline
FAT	Final Acceptance Test	SAT	Site Acceptance Testing
FIT	Functional Integration Test	SIT	System Integration Testing
FB	Flow Based	V1/V2	Version 1/ Version 2
GSK	Generation Shift Key	XNE	Cross-border element
GLSK	Generation Load Shift Key		
IDCC	Intraday Capacity Calculation		



Annex ID ATCs after Core Flow based market coupling: Bilateral increase decrease processes

Core TSO local investigation to improve ID ATCs

	Increase / Decrease process available as of Go Live	ID ATC Validation tool available
50 Hertz	Yes	Yes, Further improvements After Go Live
Amprion	Yes	Yes, Further improvements After Go Live
APG	Yes, for CWE / No For Others	For CWE borders, Yes & Further improvements After Go Live For others: No & Tool available After Go Live
CEPS	Yes	Yes
CREOS	N/A	N/A
ELES	After Go Live	After Go Live
ELIA	Yes	Yes
HOPS	Yes	No
MAVIR	Yes	Yes
PSE	Yes	Yes
RTE	Yes	Yes
SEPS	Yes	Yes
TenneT GmbH	Yes	Yes, Further improvements After Go Live
TenneT NL	Yes	No, Further improvements After Go Live
Transelectrica	No	No
Transnet BW	Yes	Yes, Further improvements After Go Live



Annex Update on Go-Live readiness – Reporting on occurrences of RAM lower than 20% of Fmax

March period (01/03/2022– 31/03/2022)

20% minRAM violation : $\frac{RAM0_{Core} + AMR - CVA - IVA + 3^*}{F_{Max}} < 20\%$

	All CNECs with RAM < 20%Fmax	Distinct MTUs (All CNECs with RAM < 20%Fmax)	Only presolved CNECs with RAM < 20%Fmax	Distinct MTUs (Presolved CNECs with RAM <20% Fmax)	CNECs with 0 RAM capacity	Distinct MTUs (CNECs with 0 RAM capacity)
AT - APG	13201	114	5520	114	10	7
BE - Elia	399	2	0	0	0	0
CZ - CEPS	0	0	0	0	0	0
D2 – TenneTGmbH	4122	104	2555	102	1	1
D4 - TransnetBW	77263	110	3242	108	178	13
D7 – Amprion	19275	102	15451	102	139	21
D8 - 50Hertz	2529	105	321	101	9	9
FR - RTE	0	0	0	0	0	0
HR - HOPS	6	6	6	6	0	0
HU - MAVIR	0	0	0	0	0	0
NL - TenneTBV	31876	91	1366	91	35	19
PL - PSE	102	26	19	15	0	0
RO - Transelectrica	5910	63	443	63	8	5
SI - ELES	10	10	10	10	0	0
SK - SEPS	1	1	1	1	0	0

- *A margin of 3 MW below the 20% is accepted to filter out rounding errors
- Note: During the month of March, the DAVinCy TSO's experienced 4 days of fallback & TEL one day with fallbacks (partially explaining the high number of occurrences)



Annex Update on Go-Live readiness –Reporting on occurrences of RAM lower than 20% of Fmax

April period (01/04/2022– 30/04/2022)

- 20% minRAM violation : $\frac{RAM0_{Core} + AMR CVA IVA + 3^*}{F_{Max}} < 20\%$
- For this exercise, only the RAM on the CNECs was taken into account. The two first column represent all the CNECs, and the 3rd and 4th represent only the presolved CNECs

	All CNECs with RAM < 20%Fmax	Distinct MTUs (All CNECs with RAM < 20%Fmax)	Only presolved CNECs with RAM < 20%Fmax	Distinct MTUs (Presolved CNECs with RAM <20% Fmax)	CNECs with 0 RAM capacity	Distinct MTUs (CNECs with 0 RAM capacity)
AT - APG	461	27	251	27	1	1
BE - Elia	0	0	0	0	0	0
CZ - CEPS	0	0	0	0	0	0
D2 – TenneTGmbH	2027	26	322	28	0	0
D4 – TransnetBW	68998	31	357	26	46	12
D7 – Amprion	6306	28	1005	31	151	15
D8 - 50Hertz	2691	26	119	26	12	9
FR - RTE	0	0	0	0	0	0
HR - HOPS	4	4	4	4	0	0
HU - MAVIR	0	0	0	0	0	0
NL - TenneTBV	28593	27	398	25	54	5
PL - PSE	387	39	91	39	0	0
RO - Transelectrica	301	38	73	38	0	0
SI - ELES	0	0	0	0	0	0
SK - SEPS	0	0	1	1	0	0

- *A margin of 3 MW below the 20% is accepted to filter out rounding errors
- Note: During the month of April, the DAVinCy TSO's experienced 1 day of fallback







Core Flow-Based Day-Ahead market coupling

Status and feedback from market participants

CORE CG meeting - 1 June 2022

Why did we ask to postpone the April go-live?

- EFET, IFIEC and MPP called for postponing go-live initially foreseen on April 20th
- Our 3 associations have been long lasting very supportive of CORE Flow Based market coupling since its inception. We would like to see it implemented ASAP as long as all conditions are met. Last time:
 - The results of the parallel run showed 10% to 20% of the hours with very small or empty domains => nearly no possibility to perform a market coupling (hence step back compared to initial situation)
 - Incompletness of published data
 - Fallback mechanisms and validation tools not stable
 - ID capacity: step back following voluntary LTA and min RAM approach for ATC extraction

Market participants are insisting that new go-live should take place if:

- Minimum performance and quality standards for DA CC are set
- Method for ID ATC extraction ensures no step back compared to current CWE practices

Many questions remain today

The annoucement by CORE TSOs on the new intended go-live date was accompanied by several updates, triggering many questions (non-exhaustive list):

- Mitigation measures in place to improve the stability of DA CC
 - Which measures? Which impact?
- For ID ATC extraction, algorithmic improvements will be implemented before go live
 - Which ones? Which impact?
- Further improvements foreseen after go live
 - Which ones? Which impact?

These questions have been sent to CORE TSOs ahead of the CORE Consultative Group on 1 June 2022

Where do we stand today with a few more weeks of parallel run?

Since last foreseen go-live (21/04) we observed:

- PTDF data publication/retrieval process seems to perform as intended
- No empty domains nor negative RAMs observed
- OMW RAM CNEs are almost fully explained by the equality constraints (on all hubs & on the Alegro hubs)

However, we still see major issues:

- Our remarks on ID CC remain, no improvement can be monitored as no data on ID ATC on JAO is published
 yet. Parameters allowing ID CC should be published ahead of go-live rAMRincl, Wsum & rLTAincl values used
 for ID ATC extraction
- No API description anymore on JAO + open issues file on JAO not updated (https://www.jao.eu/core-fb-da-parallel-run-0)
- No information has been provided regarding the detailed impact of the Core Flow-Based modelling on the operational Euphemia process (e.g. TTFS, duality gap)

Data has improved on DA in the last month but issues on ID capacity calculation and JAO publications remain. This should be tackled before go-live.