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WG Balancing of 14th November 2023

Hybrid meeting

14/11/2023



For a smooth teleconference with 30+ people ... Some rules apply

- Please put yourself on mute at any time that you are not speaking to avoid background noise.
- If you receive a call, please ensure that you do not put this meeting on hold.
 - You can quit and reconnect later on.
 - You will be muted or kicked out of the session, if necessary.
- You will be requested to hold your questions for the end of each presentation.
 - Should you have a question, please notify via Teams or speak out if you are only via phone.
 - Share your question (with slide number) in advance so all participants may follow
 - Before you share your question, please announce yourself.
- If you have a poor internet connection, please dial-in.
- Finally, please be courteous and let people finish their sentences.
 - It is practically impossible to follow when 2 people are speaking at the same time in a teleconference.





Agenda

- 14:00 14:10: Winter Plan Balancing Status Update
- 14:10 14:30: aFRR evolutions and connection to PICASSO
- 14:30 15:00: EU & BE Balancing Program Update
- 15:00 15:20: DFD Feedback following Public Consultation
- 15:20 15:35: AOB Incompressibility





Minutes of Meeting for approval

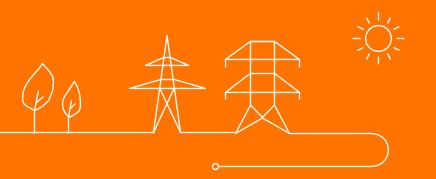
Minutes of Meeting of WG Balancing of 27/09/2023

- Suggestion to approve:
- The MoM of 27/09/2023





Winter Plan Balancing – Status Update Kristof De Vos



Winter plan Balancing : re-cap proposals under approval



250 MW mFRR increase

Increase local mFRR balancing capacity requirements with 250 MW following expected unavailability of reserve sharing during tight market conditions in neighboring countries

Cover the risk of unavailable shared reserve capacity with neighboring countries during tight market conditions in these countries

Triggers

Critical Grid Situations received from Regional Coordination Centers

External trigger (RCC)External trigger (RCC)Critical Grid Situation in UK, DE, FR, NLCritical Grid Situation in BE + FR

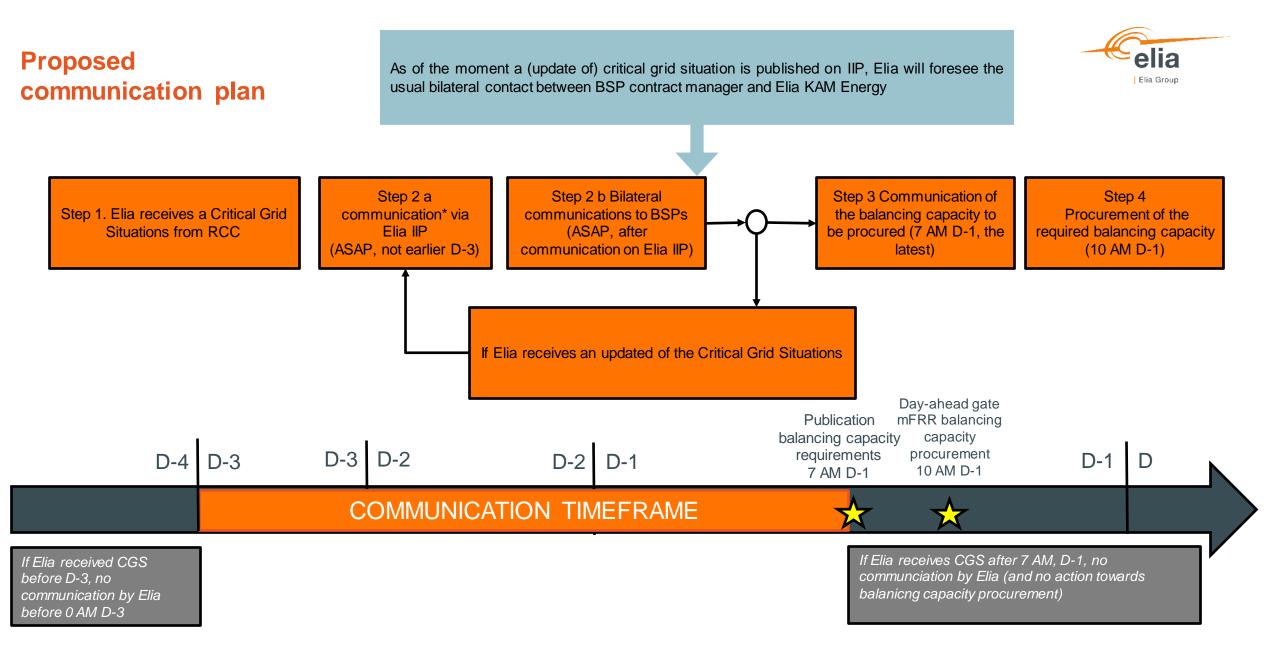
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Bidding obligation on mFRR balancing capacity in auction 1st gate. For each BSP for all positive mFRR balancing capacity through coordinated generation units, up to the total required balancing capacity.

mFRR bidding

obligation

Cover the risk of liquidity problems during tight market conditions in Belgium and France





Status and next steps

- Elia re-initiated the discussions of Winter 2022/23 in the WG BAL as from May 16, 2023
- Elia refers to the full design and justifications presented in the WG BAL of June 29, 2023
- Elia launched consultations on Friday August 18, until September 15, 2023 (4 weeks)
- Elia presented the results of the consultation in the WG BAL on September 27, 2023
- Elia submitted the proposals to CREG on September 29, 2023

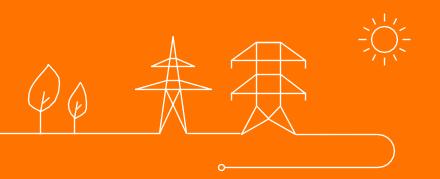
The foreseen entry into force was initially on November 1, 2023 but

- Elia awaits formal approval from CREG
- Elia can implement the measures a few days after receicing formal approval
- Elia will communicate the implementation date as soon as possible (after receiving approval from CREG)



aFRR Evolutions and Connection to PICASSO

Philippe Magnant





Proposed approach to connect to the aFRR-Platform

- As presented during the stakeholder workshop of 19/9, Elia and the CREG are aligned on the implementation of a price cap on Contracted aFRR Energy Bids, in combination with the introduction of elastic demand.
- A price cap on all aFFR Energy Bids, as proposed by Elia in previous workshop, to bridge the gap between Elia's connection to the aFRR Platform and the implementation of elastic demand however appears not to be legally acceptable for the CREG.
- Elia has been looking for alternatives, with the objective not to delay the connection to the aFRR Platform but no solution has been identified yet. Elia and CREG will continue looking for legally acceptable alternatives allowing a connection to PICASSO in June 2024.
- If no such alternative can be found, ELIA and CREG will discuss a possible delay of the connection until the introduction of aFRR elastic demand on PICASSO.



Exchanges with CREG and resulting connection approach

- Elia and the CREG have been looking for several options of temporary mitigation measure allowing to cover the gap between the planned connection and the implementation of the elastic demand
- Unfortunately, no option covering the market risk identified appeared to be judged compliant with Article 10
 of the EU Regulation on internal market for electricity
- As a result, Elia and CREG intend to condition the connection to the aFRR Platform to the implementation of elastic demand



Implementation planning of elastic demand

- The implementation timing of elastic demand has been analyzed at EU and at local level
- Critical path is the regulatory track
 - > ACER decision planned end of 07/24 (a few days before the legal deadline)
 - Once the ACER decision is published, CREG needs to approve the balancing rules, in which the local implementation of the elastic demand will be described. This can be expected the earliest by the end of 08/24, at the condition that the public consultation and submission to CREG occurs before ACER's decision
- The implementation, at European and at local level, can be done in parallel, at 2 conditions:
 - > Approval by TSOs to commit a (possible) budget to the implementation in the algorithm of the aFRR-Platform
 - > ACER's decision on the elastic demand doesn't cause any change request at the EU and/or local level
- → The earliest possible local implementation of aFRR elastic demand is estimated in 10/2024
- Assuming the best case but realistic scenario, the connection to the aFRR Platform could be planned beginning of 10/24, together with (or very close to) the implementation of aFRR dynamic dimensioning



Resulting planning

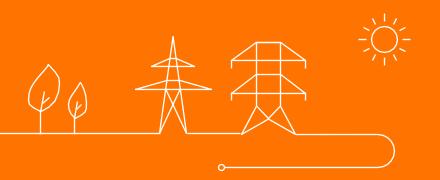
Design evolution	Implementation impact for the BSPs	Planning
Connection to aFRR-Platform	Mandatory – impact on prices and activation frequencies	beginning of 10/2024
5' FAT (Full Activation Time)	Mandatory – possible impact on offered volumes	04/12/2024
Move aFRR capacity auction to D-1	Mandatory – operational impact	01/10/2024
Incentive 2021: RT baseline	Optional implementation	01/10/2024
Incentive 2022: activation method	Optional implementation	01/10/2024
CCMD: ind. correction model, opening LV	Optional implementation	01/10/2024

As the connection to the aFRR-Platform is postponed after the summer, it is proposed to align the go-lives of the other evolutions (except for the 5' FAT) The change towards the 5' FAT will be a separate go-live, as market parties did not express support on the proposal to delay the go-live of aFRR dynamic dimensioning to December in order to combine the go-lives.



EU & BE Balancing Program Update

Cécile Pellegrin



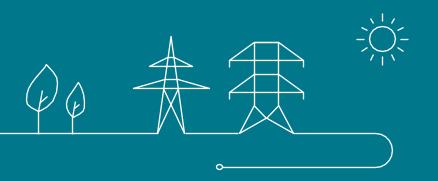


Agenda of today's presentation

- MARI & iCAROS : short status
- Key focuses 2024
- Coming stakeholder management interactions



MARI & iCAROS : short status





Public consultation in the framework of the MARI and iCAROS projects

MARI

- Public consultation occurred between 05/07/23 and 30/08/23
- ELIA received feedbacks from Centrica, FEBEG & FEBELIEC

iCAROS

- Public consultation occurred between 06/06/23 and 25/08/23
- ELIA received feedbacks from BOP, Centrica, Eneco, FEBEG, FEBELIEC and Zandvliet Power for the iCAROS Project

Common info session for MARI & ICAROS took place on 12/10/2023

- Submission of consultation report and final versions of T&C BSP and balancing rules for regulatory approval towards CREG 20/10/2023
- Publication on Elia website of consultation report and submitted versions of regulated documents 23/10/2023
- Submission of consultation report and final versions of T&C OPA, T&C SA and coordination rules for regulatory approval towards CREG 30/10/2023
- Publication on Elia website of consultation report and submitted versions of regulated documents 7/11/2023





BUSINESS TESTING PROTOCOLS WITH MARKET PARTIES

	Tests	Туре	What	Who	Wł	nen		Tests	Туре	What	Who	Whe	en
iCARO				Day I	23/05/2023					BSP	Dayl		
	iCAROS_1		Update of an Availability Plan	OPA	Day II	25/05/2023		MARI_1	Reproduction of real situation	Initialization & updates of mFRR Energy Bids			07/11/2023 08/11/2023
	-			Backup	01/06/2023				Energy Dids			13/11/2023	
iCAROS_2 Reproduction of real situation of real situation of real situation of scenario's Reproduction of scenario (Scenario) Reproduction of scenario) Reproduction of Scenario (Scenario) Reproduction of Scenario (Scenario (Scenario) Reproduction Scenario (Scenario (Scenario) Reproduction Scenario (Scenario (Scen		Initialization of Cohoduloo & DD	SA	Day I	10/10/2023	MARI				BSP		14/11/2023	
	iCAROS_2	ROS_2 Reproduction of real situation	Initialization of Schedules & RD Energy Bids	OPA	Day II	11/10/2023		MARI_2	Simulation of scenario's	Activations of mFRR			15/11/2023
	_				Backup	16/10/2023							16/11/2023
				SA	Day I	17/10/2023			Back-up week 2	0/11 24/11/2023	L	Backup	20/11/2023
	iCAROS_3		Updates of Schedules & RD Energy Bids	OPA	Day II	18/10/2023			Васк-ир week 2		BSP	Dayl	28/11/2023
					Backup	23/10/2023		iCAROS/MARI_1		Initialization of Schedules & RD/mFRR Energy Bids	SA		29/11/2023
	iCAROS_4 Simulation of scenario's			SA	Day I	24/10/2023			Reproduction of real situation		OPA	Backup	04/12/2023
		Simulation of scenario's	Activations of RD, Return to Schedules Requests		Day II	25/10/2023	icaros/mari	CAROCAMARIA	AROS/MARI_2	Updates of Schedules &	BSP		05/12/2023
					, Day II	26/10/2023		ICARUS/MARI_2		IRD/MERR Energy Bids	SA OPA		06/12/2023
					•	06/11/2023				Combination	BSP		11/12/2023 12/12/2023
Back-up week 30/11 - 03/11/2023							Simulation of cooperio's	of activations of mFRR,	SA		13/12/2023		
								ICARUS/MARI_3	Simulation of scenario's	RD & Return-to-		Day II	14/12/2023
										Schedules Requests		Backup	18/12/2023

Business testing protocols with market parties

Testing organized for both market and ELIA needs:

- Coherency checked between as-is and to-be tooling
- End to end testing on BSP/SA and ELIA side

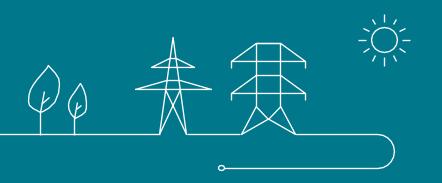
Lack of successful testing at this stage will lead to less efficient go-live!

!!! Testing period ongoing **!!!**





Key focuses 2024



Key focuses 2024 - Process



- Workplan 2024 is being prepared and will depend on the consolidated detailed roadmap taking into account:
 - Effective implementation plan of the ongoing incentives
 - Possible constraints
- In the meantime, ELIA wants to already share today the list of key focuses for 2024 covering
 - EU & BE Balancing program
 - Balancing Incentives 2024
- Any feedback on this list of key focuses for 2024 is welcome and would be considered when preparing the consolidated roadmap



Consolidated High level Roadmap

Update of the Roadmap

- <u>Local go live</u> of the new mFRR bidding and iCAROS phase 1 <u>Mid February 2024</u>
- Connection to <u>EU mFRR balancing energy platform</u> <u>Mid April 2024</u>
- Connection to EU aFRR balancing energy platform
 <u>Mid June 2024</u>
- <u>NB</u> : The two months period is needed between the different go-lives

Careful follow-up of the progress of the implementation, testing and dry run in order to ensure the readiness for local mFRR / iCAROS phase 1 go live





Other initiatives – Incentives 2023

Incentives		
Evaluation des modalités de préqualification, contrôle et pénalités des services mFRR et aFRR	Will be followed in WG BAL	Presented today
Étude sur les possibilités et éventuelles évolutions de correction du périmètre du BRP en cas d'activation d'offres d'énergie pour la mFRR ou le redispatching	Will be followed in WG BAL	Presented today
MVAr service – review and recommendations for design optimisations	Will be followed in WG Belgian grid	Presented today and in next WG Belgian grid
Cartes de capacités d'accueil de raccordement de production, consommation et stockage	Will be followed in WG Belgian grid	Presented in next WG Belgian grid
Cost benefit analysis on requirements for generators applicable on existing and new generating units between 1 and 25 MW	Will be followed in WG Belgian grid	Presented in next WG Belgian grid
Prédiction des "deterministic frequency deviation" (DFD) et de la contribution d'Elia	Will be followed in WG BAL	Presented today
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Reminder WG BAL 02/02/23 – High level consolidated roadmap 2023

Impact of step 2 selection on auction cost... vs. savings related to virtual bids

results without virtual bids (only all-CCTU bids consipositive value indicates savings thanks to virtual bids

Computation: cost increase between step 1 and step 3 The average TCO degradation since the go-live is 6%; the 20%

threshold has been exceeded for the 1st time end of Novembe Reduction of contracted capacity and increase of prequalified volumes bidding in single CCTU increase the risk of reaching

Other initiatives – Product evolutions

- aFRR Design evolutions
 - TCO Degradation price Cap
 - Other evolutions as aFRR RT Baseline, aFRR activation method, ...
- FCR Design evolutions
 - Additional properties



- aFRR Dimensioning
- Bidding instructions and T&C RSP
- Other modifications will impact the T&C BRP in particular in the context of CCMD (see WG CCMD for more information). Modifications to other regulatory documents for CCMD will follow a similar planning

<u>NB</u>: Taking into account the feedback received on the winterplan (250MW mFRR / bidding obligation), Elia is investigating how to implement such scheme in a more enduring way (not included yet in roadmap).



iCAROS – MARI - PICASSO

Update of the Roadmap

- <u>Local go live</u> of the new mFRR bidding and iCAROS phase 1 <u>Mid February 2024</u>
- Connection to <u>EU mFRR balancing energy platform</u> <u>Mid April 2024</u>
- Connection to EU aFRR balancing energy platform
 beginning of October 2024
- <u>NB</u> : The two months period is needed between the different go-lives

Careful follow-up of the progress of the implementation, testing and dry run in order to ensure the readiness for local mFRR / iCAROS phase 1 go live





Other initiatives – Incentives 2024

Incentives	
Amélioration de la mise à disposition de données par Elia	Will be followed in WG BAL
Vision et roadmap sur la flexibilité pour la gestion des congestions et communication transparente sur l'activation de la flexibilité dans le cadre des contrats avec accès flexible	Will be followed in Belgian Grid
Etablissement des exigences en termes de stratégie de gestion de la charge pour les points de fourniture disposant d'un réservoir d'énergie limité et offrant plusieurs services d'équilibrage simultanément	Will be followed in WG BAL
Processus de facturation des BRP	TBC
Implémentation de tests intelligents de la disponibilité des réserves	Will be followed in WG BAL



Other initiatives – Product evolutions

aFRR Design evolutions	
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Design evolution	Planning
Possible local mitigation measures for PICASSO	beginning of 10/2024
5' FAT (Full Activation Time)	04/12/2024
Move aFRR capacity auction to D-1	01/10/2024
Incentive 2021: RT baseline	01/10/2024
Incentive 2022: activation method	01/10/2024
CCMD: ind. correction model, opening LV	01/10/2024

- FCR Design evolutions Target go live date end 2024
 - Additional properties
 - Other evolutions as Amendment of Baseline and Activation Control Methodology, Combo FCR/aFRR, Migration from BMAP to BIPLE, ..
- aFRR Dimensioning parallel run from 01/07/24 on, go live 01/10/24
- Planning and/or scope to be confirmed based on the final implementation plan of the incentive 2023
 - Bidding instructions and T&C VSP (including the needed implementation plan of the 2023 incentive)
 - Incentive « Prequalification, control & penalties »

Other initiatives

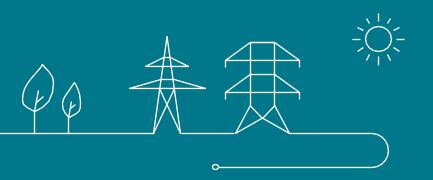
Elia will also work on

- The rewrite of its auction tool
- Short term procurement of losses
- Improvement of the invoicing / Settlement of Ancillary services





Coming stakeholder management interactions



Coming stakeholder management interactions





- Regular follow-up of implementation plans
- More information regarding the content and organization of the business testing protocol with service providers, where still applicable, is communicated in due time directly to service providers
- Workshop / information session:
 - 30/11/23 Balancing Stakeholders Workshop (<u>Balancing platforms stakeholders' workshop</u> (<u>entsoe.eu</u>))
 - 12/12/23 Deadline of the EU consultation
 - 16/01/24 Info sessions on MARI/PICASSO/iCAROS
 - Imbalance price
 - Impact on publications
- Go live period in the second half of February to be anticipated in terms of organization



Contact persons



KAM Energy

Amandine Leroux / Arno Motté / Nicolas Koelman

Implementation ad hoc sessions (on request)

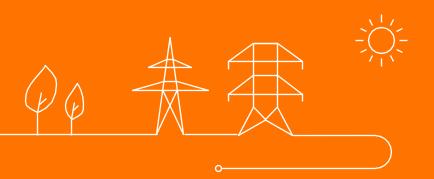
- Q&A sessions dedicated to design and implementation questions
- IT questions & Live debugging sessions with ELIA IT-team





Deterministic Frequency Deviation – Feedback following Public Consultation

Aline Mathy





Agenda

1. Consultation report – feedback received and Elia's position

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2. Next steps and implementation plan

General Comment - FEBEG

- FEBEG considers the topic as interesting and is concerned about the DFD trends
- \Rightarrow Elia shares the view
- FEBEG stresses that it is up to Elia to safeguard grid security and grid equilibrium
- FEBEG supports DFD forecasting in the broader effort to accurately forecast SI and take appropriate decisions on activation.
- ⇒ Forecast aims at properly mitigating the issue and study aims at proposing the most appropriate measure

Subject	Stakeholder	Comment	Elia's View
General	FEBEG	FEBEG is generally speaking often	Elia and FEBEG share a common view on the
comment		overwhelmed with the many incentives of	fact that the increase of DFDs is a concern.
		Elia, however, we do consider that this	Therefore, in order to assure the grid
		specific incentive is interesting and	security, Elia is pro-actively launching some
		relevant.	initiatives to define efficient mitigation
		As shown in the report of Elia, the number	measures regarding DFDs.
		of DFDs has increased since 2020, which	
		is a sign that the issue is an important	
·		one. FEBEG is indeed also concerned to	
		see such worrying trends and we agree	
and is		that measures are needed and that it is	
		important to study the topic and work on possible solutions.	
		possible solutions.	
		As a general observation, we firmly	
		believe that DFD should not create	
eguard		significant grid security challenges. Should	
guara		such issues arise, they should be	
		addressed through appropriate mitigation	
		measures. FEBEG contends that it is the	
roader		primary responsibility of Elia to safeguard	
		grid security and maintain grid	
		equilibrium at all times. It is incumbent	
		upon Elia to assess whether the	
		emergence of DFD poses a substantial	
sue		threat to the grid.	Elia uses the forecast based approach to be
			able to mitigate some issues with the most
		FEBEG fully supports the forecasting of	efficient means.
		DFD as part of a broader effort to	However, the link with Simplify in terms of
		accurately predict system imbalances, not	content cannot be extended.
		limited to DFD alone. Such forecasting can	
		significantly aid Elia in executing cost-	
		efficient activations, ultimately benefiting	
		end consumers.	

Specific comment - FEBEG

- FEBEG supports the pro-active activation of mFRR to reduce system costs
- \Rightarrow aFRR or mFRR are used as a mitigation measure according to their efficiency in the resolution of the DFD issue particularly.
- FEBEG supports continual forecast enhancement. FEBEG makes a link with the optimization of the aFRR VS mFRR activation strategy.
- ⇒ Activation strategy enhancement are supported by initiatives such as Simplify, MARI, Smart Balancing controller, …
- FEBEG does not oppose to the proposed approach nor to the use of aFRR as mitigation measure and is in favor of a rapid application of the measures.
- ⇒ Elia will continue improving the forecast and so the mitigation measure selection in the context of the DFD incentive and the activation strategy in the context of MARI.

FEBEG	Specific comments	
	Cost-Efficient Balancing: proactive mFRR	In the specific context of DFD, the
	activation is cost-effective and can help	complementarity of aFRR product by mFRR
	preventing expensive aFRR activations.	is considered as part of mitigation measure
	This approach promotes efficient	but it is depending on the circumstances
	utilization of balancing resources. FEBEG	from a physical and economical point of
	strongly supports this proposed approach,	view:
	since we have always asked Elia to	
	consider more pro-active mFRR activation	 mFRR activation should be triggered much
	to reduce system costs.	in advance for having a similar physical
		impact as a specific aFRR activation
	In light of these considerations, it is	moment, with the drawback that it will
	essential to continually enhance the	physically last much longer.
	forecasting of system imbalances, with	- mFRR and aFRR activation cost should be
	DFD being a subset thereof. FEBEG	compared for their whole respective
	believes that employing the models	activation period.
	outlined in the analysis will lead to a	
	continuous improvement in forecasts.	Elia supports the approach in the context of
	This approach will likely refine over time,	Simplify, MARI and Smart Balancing
	benefiting from experience-sharing with	Controllers.
	other TSOs that have already	But regarding the optimization of the
	implemented similar strategies. We firmly	common activation strategy for aFRR and
	believe that optimizing the common	mFRR, Elia would refer to the public
	activation strategy for aFRR and mFRR is	consultation related to the incentives 2024.
	an important and realistic objective that	
	we should strive for in the coming months	
	and years.	
	-	
		Conclusion
	Conclusion	
		Elia is going to continue to work on the
	In summary, FEBEG recommends that Elia	Elia is going to continue to work on the forecasting aspects, on the activation
	In summary, FEBEG recommends that Elia continues its investigations into DFD	Elia is going to continue to work on the forecasting aspects, on the activation strategy (as proposed in the context of
	In summary, FEBEG recommends that Elia continues its investigations into DFD occurrences and, more crucially, focuses	Elia is going to continue to work on the forecasting aspects, on the activation strategy (as proposed in the context of MARI) and on DFD (additional study,
	In summary, FEBEG recommends that Elia continues its investigations into DFD occurrences and, more crucially, focuses on improving the forecast of system	Elia is going to continue to work on the forecasting aspects, on the activation strategy (as proposed in the context of
	In summary, FEBEG recommends that Elia continues its investigations into DFD occurrences and, more crucially, focuses on improving the forecast of system imbalances. If deemed necessary, Elia	Elia is going to continue to work on the forecasting aspects, on the activation strategy (as proposed in the context of MARI) and on DFD (additional study,
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	In summary, FEBEG recommends that Elia continues its investigations into DFD occurrences and, more crucially, focuses on improving the forecast of system imbalances. If deemed necessary, Elia should consider the initial mitigation measure, which involves tuning the controller. Overall, as one of the key measures, we stress the importance of developing an implementation plan for proactive mFRR activation, as its utility extends far beyond resolving DFD issues.	Elia is going to continue to work on the forecasting aspects, on the activation strategy (as proposed in the context of MARI) and on DFD (additional study,
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EEDEG

Specific Comment Specific comments

General comment - Febeliec

- FEBELIEC supports preventing the need to contract more reserves
- \Rightarrow Elia has the same understanding.
- FEBELIEC is in favor of measures based on a cost benefit analysis
- FEBELIEC stresses that as few unnecessary actions as possible should be taken
- ⇒ Elia supports the idea of avoiding unnecessary costs. Improving the forecast and monitoring the mitigation measure costs are initiatives Elia proposes to confirm this position.
- FEBELIEC supports the stepwise approach for the implementation plan
- \Rightarrow Elia continues the discussion on the implementation plan with all parties (including CREG).

FEBELIEC	the analysis, and wants to avoid that Elia could be forced to contract additional balancing reserves as a penalty for going	on the importance to manage the DFD concern.
	beyond its allowed threshold, as this would incur additional costs for grid users in their grid tariffs. Moreover, as these additional reserves would put even more strain on an already challengingly limited	Elia fully agrees with the necessity to improve performance of the algorithm to increase the accuracy in order to be more efficient (and avoid unnecessary costs).
	merit order, the cost implications could be quite important.	The Elia approach intends to monitor the mitigation measures costs as one of the element to differentiate them.
	However, Febeliec also would like to warn against taking too many costly actions to avoid or limit DFDs, as these also come with a cost and could even lead to overshoots. It is important to strike a	Implementation plan is part of the discussion between parties (CREG, Elia and Market Parties).
	(fine) balance, based on a cost-benefit analysis of the chosen path, ex ante but also ex post, to ensure that the chosen option is still the optimal solution.	The proposal from Elia is to have a stepwise approach with a period of improvement, a period of development and then, a delivery in production with each time a Go/No-Go decision.
	The above is even more so valid because Febeliec understands from the analysis from Elia that Elia could also take action even if the risk is high that it was not contribution to the DFD, due to the lack of accuracy of the ACE contribution forecast. This implies incurring costs, at the detriment of grid users, in situations where this might not have been warranted. While Febeliec understands that perfect forecast only exist in theory and not in practice, it is important that the occurrence of such situations is limited as much as possible.	
	Concerning the proposed options, Febeliec can only take note of the analysis from Elia, as well as the conclusions drawn by Elia regarding the chosen differentiated approaches for upward and downward DFD (with aFRR and mFRR for upward and only aFRR for downward). Concerning the conclusions on possible mitigation measures, Febeliec follows the reasoning of a stepwise approach and looks forward to the results of the first step in order to	

define possible next steps.

General comment



Next steps

- \circ 22/12/2023 Submission of the Final Report including results of the // run
- WG BAL January Presentation of the Final Report

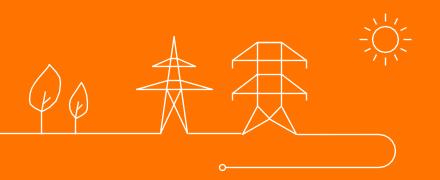
Update on // run

- started on 02/11 (delayed due to update on ENTSO-E transparency platform)
- Up and running since then
- Results to be extracted week per week to mitigate short timing



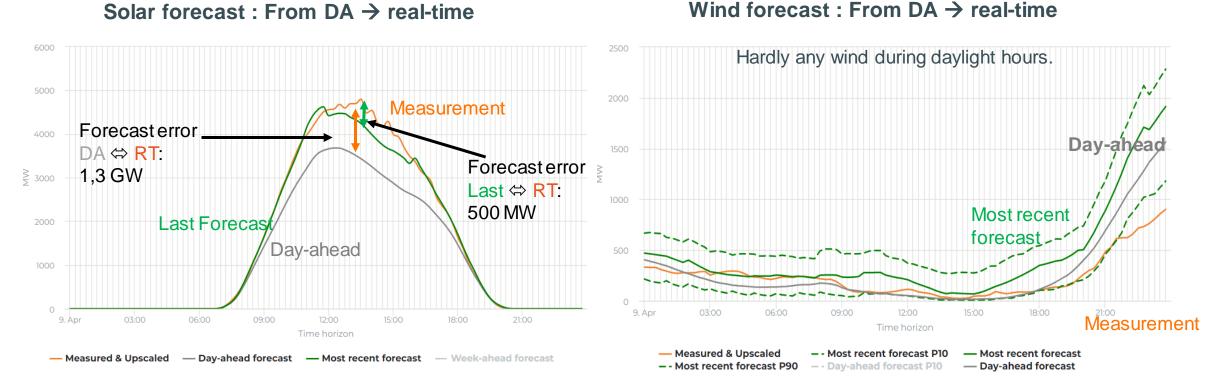
AOB – Incompressibility

Arnaud Attanasi





Pre-Summer 2023 - 9/4/2023 - Reminder



- DA Solar forecast has been the key driver of the system imbalance.
 - Forecast error of more than 1,3GW in DA compared to the measurement.
 - Even the most recent forecast (=RT-1h) shows an underestimation of 500MW.
- Wind forecast is not a root cause of the system imbalance.



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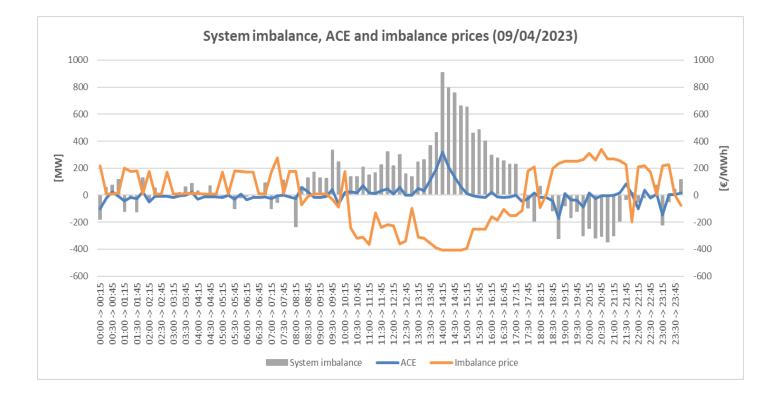
Pre-Summer 2023 - 9/4/2023 - Reminder





Pre-Summer 2023 - 9/4/2023 - Reminder

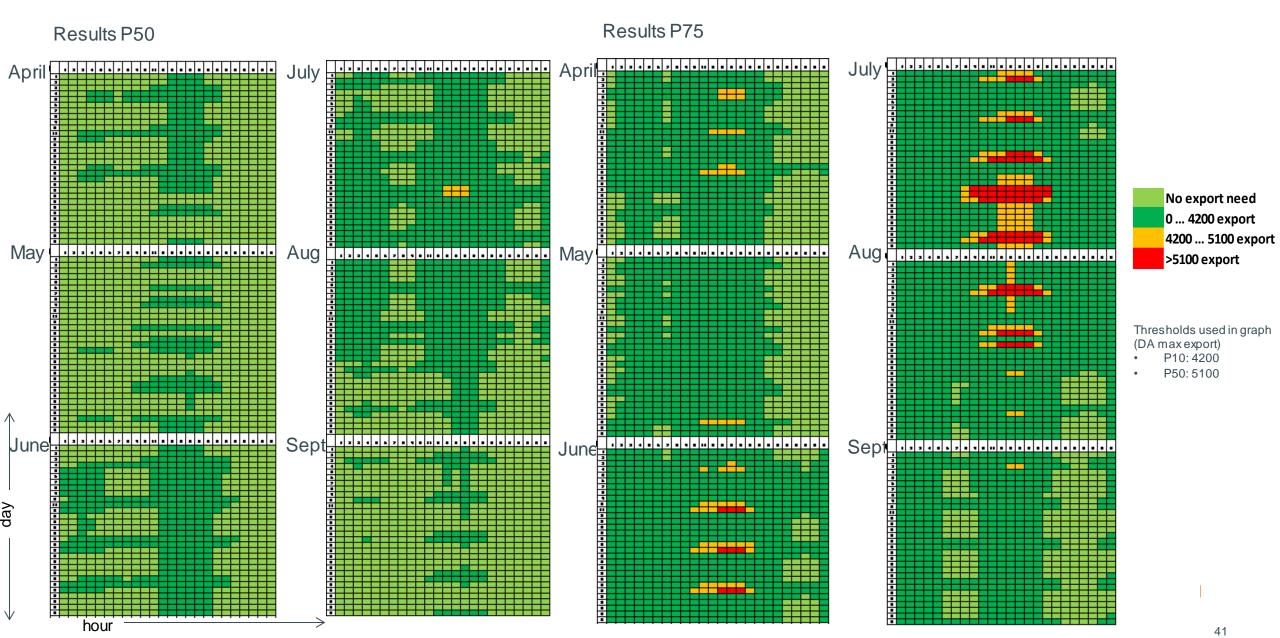
Real-Time system indicators showing significant incompressibility



- System imbalance (SI) was long most of daylight hours (08:00 → 17.00)
 - Peak at almost 1GW in the afternoon.
- Moreover, ACE peaks at 350MW in the afternoon during some QHs
- Imbalance price up to -400€/MWh during several QHs

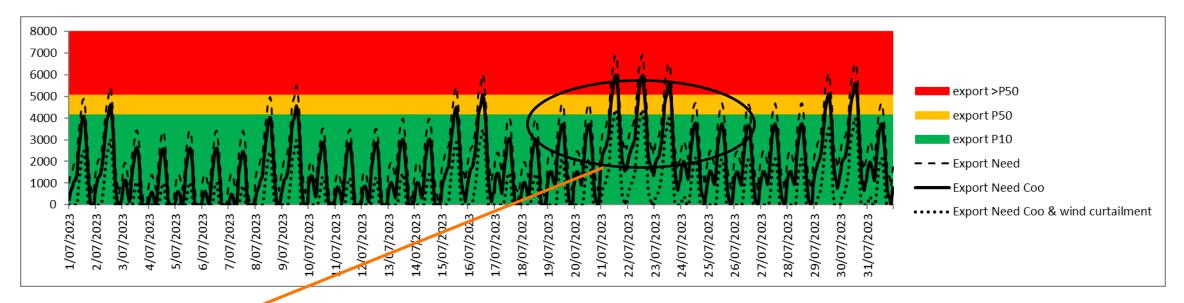


Summer Outlook 2023 – Reminder from WG SO





Summer Outlook 2023 – Reminder from WG SO



P75 Focus on July – With pumping and wind offshore curtailment

In case of underestimation of solar forecast, difficult situation to handle in intraday since limited short term measures available (max value = 4400 MW).

-> Situation of 9/4

Feedback: Summer 2023



Spring (ex. Sunday 9th of April 2023,...) and the « Summer Outlook » indicated unneglectable incompressibility risk.,

A « Procedure High Risk of Incompressibility » was put in place for Summer 2023 and was triggered on: 08/07, 09/07, 21/07, 14/08, 15/08, 20/08, 03/09, 09/09.

For those days between 10am and 4pm,

- As published on IIP, Elia received little additional flexibility from limited coordonable/non-coordonnable units.
- Day-Ahead Price was in full price convergence or with a very little price difference with NL, DE, FR, AT.
- Elia grid was at the down limit (few MW margin)* except Reserve Sharing.
- Imbalance Price was mainly between -200€/MWh and -400€/MWh + punctual price peaks at -500€/MWh.

Typical day : See next Slide

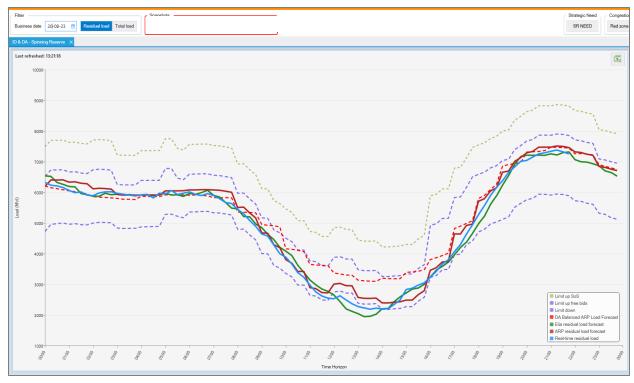
Conclusion: There was no critical situation from an incompressibility perspective, but margins were really tight.

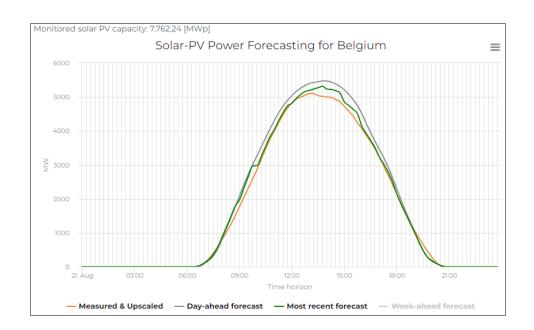




Feedback: Summer 2023

(Typical Day)





Next Step

- Continuous improvement of Forecasting (Solar, Wind, Load,...)
- Summer Outlook 2024
- Unlocking of flexibility (& flexible devices) in the grid





Annex

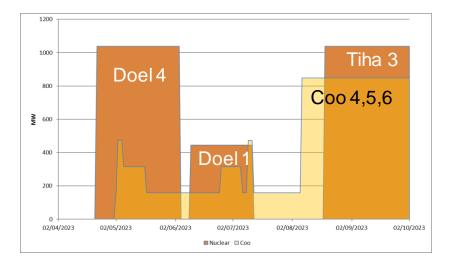




Goal of the summer outlook

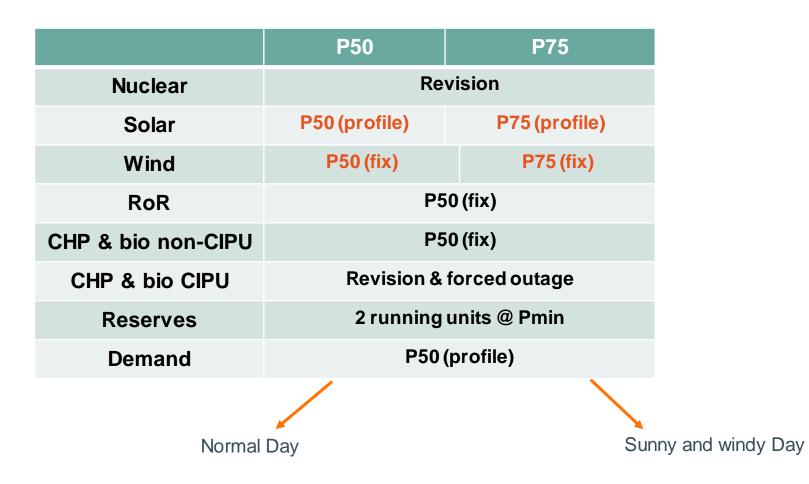
Assessment of export needs/incompressibility issues during the next months (May – September)

- Full revision of Half Coo (4,5,6) from 07/08 until winter
- Nuclear: high availability between mid July and mid August (Doel 3 and Tihange 2 phase-out)
- Lower offtake during the summer months
- Increasing installed capacity of renewables



Hypothesis used in summer Outlook





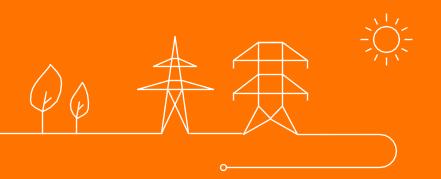
Pumped storage and export are not taken into account in the assessment and will be used in the post-processing of the results!





AOB – Next WG Balancing

Loup Vanderlinden





Next WG Balancing

- WG Balancing 18/12/2023 14:00 18:00
- Dates for 2024:
 - WG Balancing 07/02/2024 09:00 13:00
 - WG Balancing 27/03/2024 09:00 13:00
 - WG Balancing 21/05/2024 09:00 13:00
 - WG Balancing 28/06/2024 13:30 17:30
 - WG Balancing 30/09/2024 14:00 18:00
 - WG Balancing 22/11/2024 13:30 17:30
 - WG Balancing 19/12/2024 14:00 18:00

