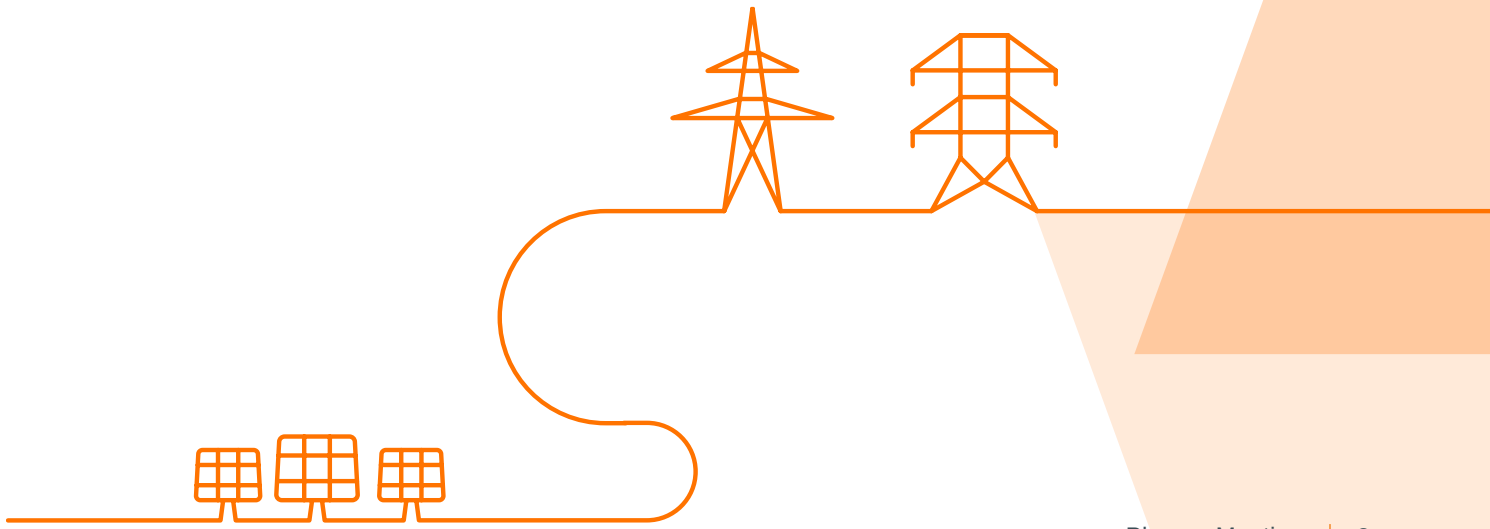
Plenary Meeting

of the Elia Users' Group

September 2024

Agenda

1. **Incompressibility** – *Feedback summer*
2. **RTP** – *Design and parallel → moved to Working Group CCMD*
3. **Status Balancing incentives 2024**
4. **Results Client Satisfaction Survey**
5. **Feedback Working Groups**
   - 5.1. Working Group **Adequacy**
   - 5.2. Working Group **Balancing**
   - 5.3. Working Group **Belgian Grid**
   - 5.4. Working Group **CCMD**



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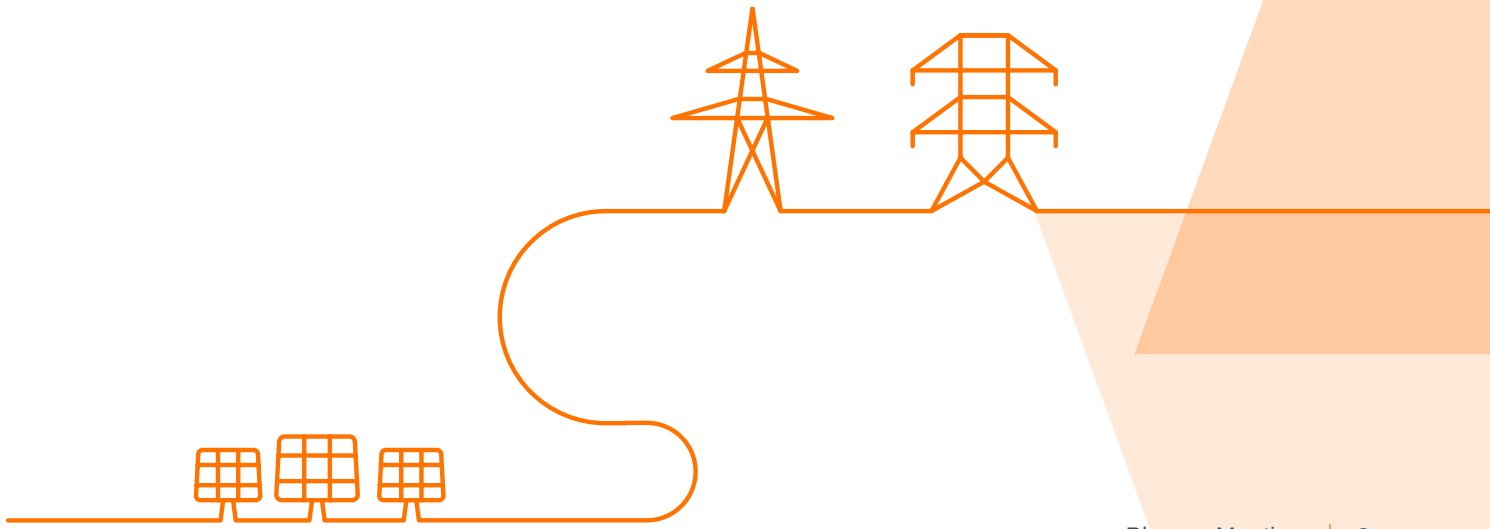


Summer feedback 2024

ELIA National Control Center / Market Energy Solutions

Action plan: Incompressibility summer 2024

short recap

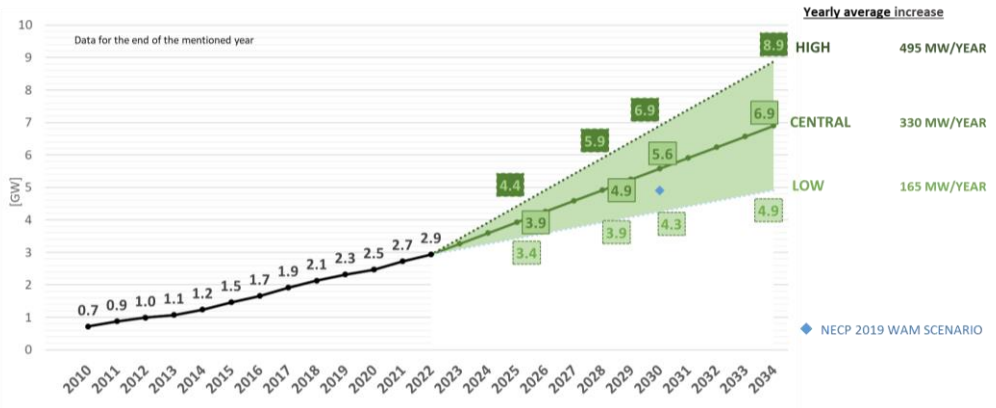
Incompressibility Risk – What are the different types of REX flex?

Solar PV (9088MWp)

- ✓ Large PV site: Flexible
- ✓ **Residential PV: Not flexible & Not Exposed to price signal**

→ **This is the ISSUE.**

Wind onshore (3177MW) & offshore (2262MW)



- ✓ Offshore Wind: Flexible
- ✓ **Onshore Wind: (Technically) Flexible but should be more flexibilized (WIP); even more important with the REPOWERING of former wind parks**

Residential PV must become flexible as soon as possible. This requires data, robust price signal, dynamic contract and being technically Flex Ready.

Incompressibility Risk – Executive Summary

The concern about incompressibility follows a combination of two separate **challenges**:

A. **Ability of the market to manage well 'predicted' situations of high renewable generation. It is related to the ability of market parties to maintain a balanced portfolio during high renewable energy conditions (DA/ID demand side shifting & RES flexibility)**

B. **Ability of the system to maintain sufficient flexibility to manage unexpected outages or forecasting errors. It is related to available downward flexibility in the system (ID/RT demand side shifting & RES flexibility)**

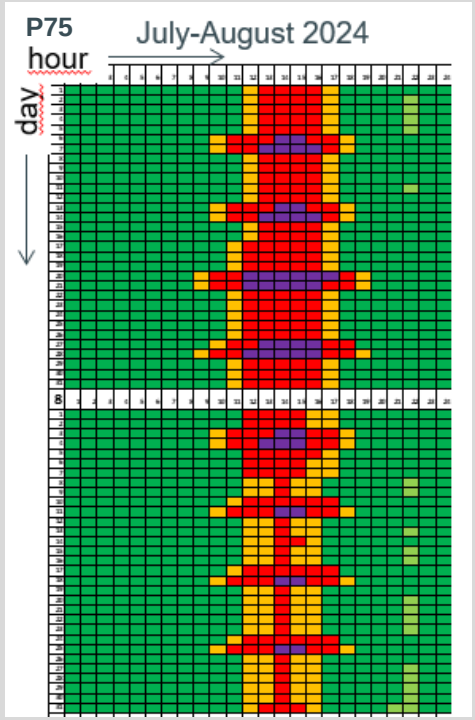
Elia's key belief is that challenge A needs to be solved within the. If not, reduction/modulation of renewable generation will grow every year linearly with increase of PV and wind generation. Solving challenge A will also resolve challenge B by liberating flexibility for the balancing time frame, at least from renewable generation.

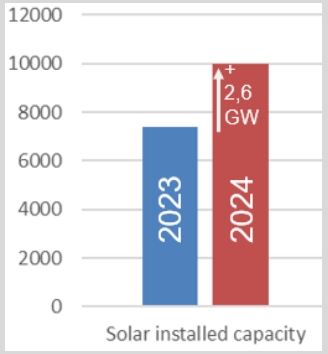
Based on the 7/4 events as well as the Summer Oultook, Elia is of the opinion that, in certain circumstances (i.e. high RES generation and low load), there may be an insufficient amount of flexibility available in the market to keep ensure safe system operations (i.e. frequency deviations with large & persistent imbalance from Elia).

For this reason, we would like to be able to access the "technical flexibility" available on TSO- DSO level as well a nuclear power reduction.

Incompressibility Risk - Needs

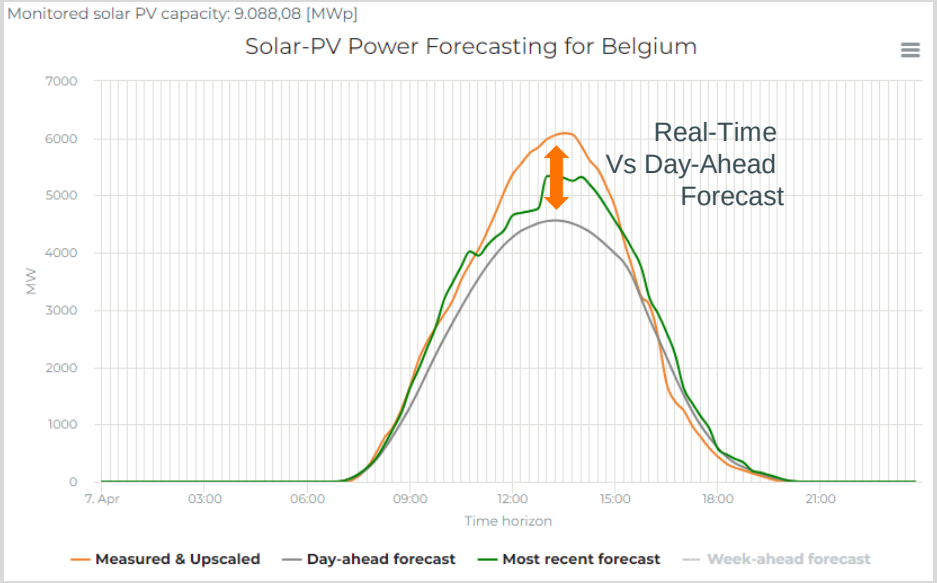
Challenge A High Renewables generation – Export Need





Summer Outlook

Challenge B Forecasting Error – Balancing Flexibility Need



Or unexpected outage like Nemo Link Ltd in export

On the 7/4 event

1 out of 4 week-end (P75), Belgium would theoretically need to export more than 7GW which is nearly 2GW more than in 2023. For the same forecasting quality, the growth of the PV installed made the balancing flexibility need much higher than in 2023.

Incompressibility Risk : Where is Technical Flexibility Process located?

Elia

- Optimized outage planning
- Additional export capacity via Dynamic Line rating
- Additional export capacity via PST range in case of extreme situations
- Efficient price signal

Starting point - BRP must respect **legal obligations & so must solve the problem in the market**

Market

0. Communication to Market Party
- Via External Working Group
- Via UMM/Warning from
- incompressibility procedure

1. Balancing Measures:
- Free bids (eg Wind Curtailment,…)
- Reserve Sharing

2. Exceptional Balancing Measures:
- Use Redispatching bids as Free bids
- Stop Limited/Non Coordonnable Unit
- Stop Automatic Regulation (*)

Technical

3. Reduction of PV/Wind (<25MW) connected at TSO (**)
4. Reduction of PV/Wind (from 0,25 to 25MW) connected at DSO (**)

5. Nuclear Power Plant Reduction (**)

Not activated before 50,1Hz but before 50,2Hz
With Elia as a main contributor.
In agreement with frequency leader

Technical Flexibility will be used in last resort in Belgium before losing the old Belgian PV + > 11GW in the Rest of Europe and before frequency drop and restabilize

(*): Automatic Regulation Stop means no aFRR anymore for gaining Pmin of the machine – Impact on quality regulation for several hours.
(**): Triggered by Exceptional Balancing Measures. (4): No Residential reduction/modulation!

Looking back

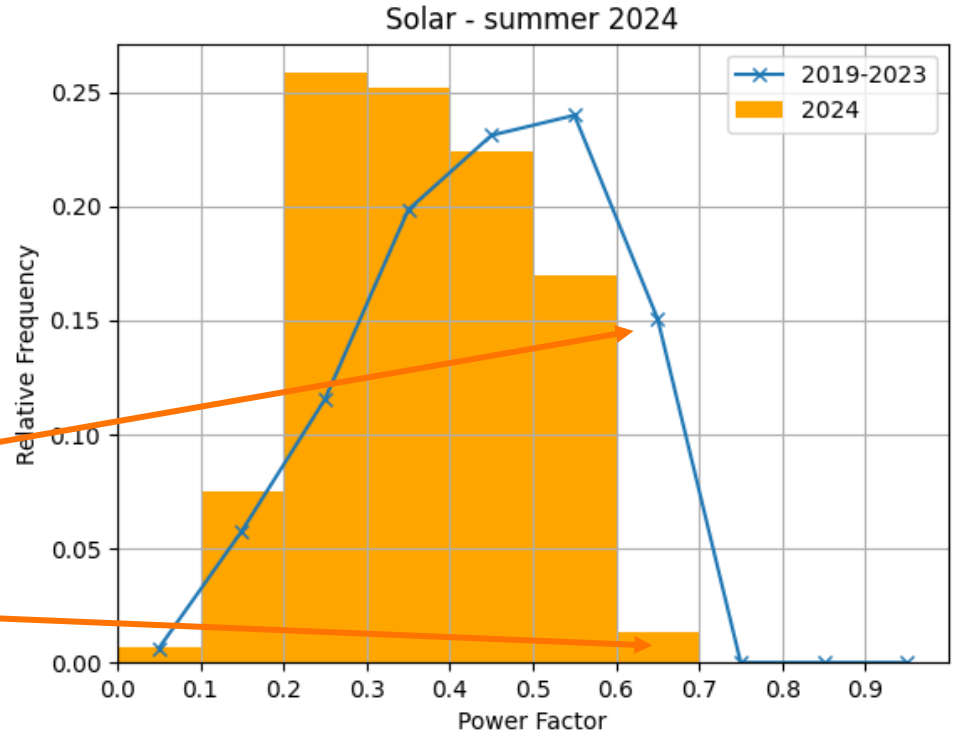
(No final validated figures for August)

Solar, Wind, Total Load, DA Open Position…

Solar production

From April till end of August

- Power factor(*) distribution lower than previous years
  - Due to bad weather from April to July
- Approximately same distribution in WE & holidays
- Power factor 60%-70%
  - **Expected 15% >< Realized 1,35% of days**



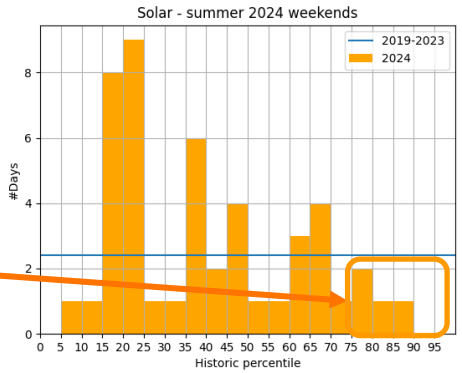
Solar production during summer was, relative to installed capacity, far less than previous years…

Power factor(*) = Realized Production / Installed capacity

Solar production

Weekends & holidays from April till end of August

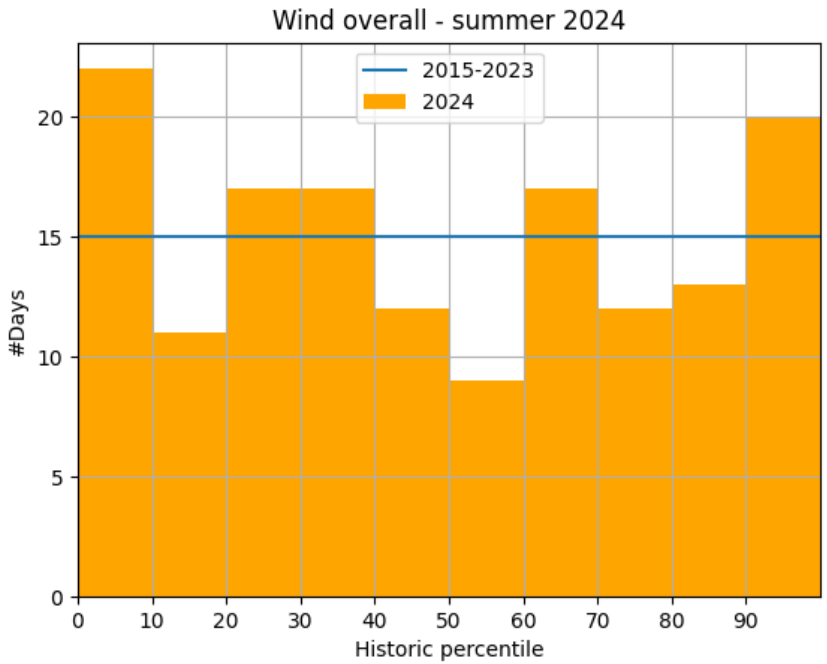
# Days with production…	Stat. expected (2019-2023)	2024
> P0 (all)	48	48
> P25	36	28
> P50	24	**14**
> P75	12	**4**
> P85	7,2	**1**
> P90	4,8	**0**

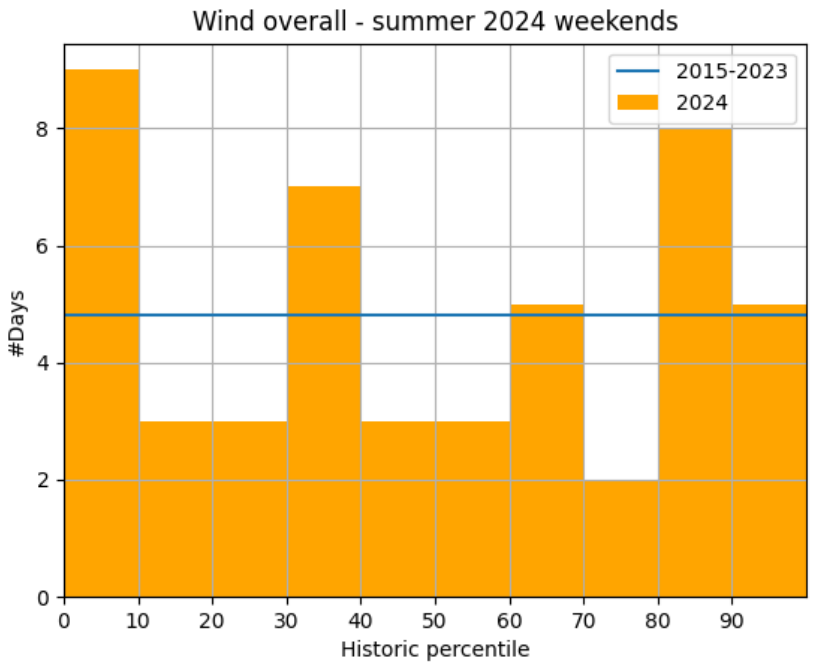


...with, especially during weekends, far less sunny (>P75) days than statistically expected

Percentiles are based on the summers of 2019 until 2023

Wind production
From April till end of August

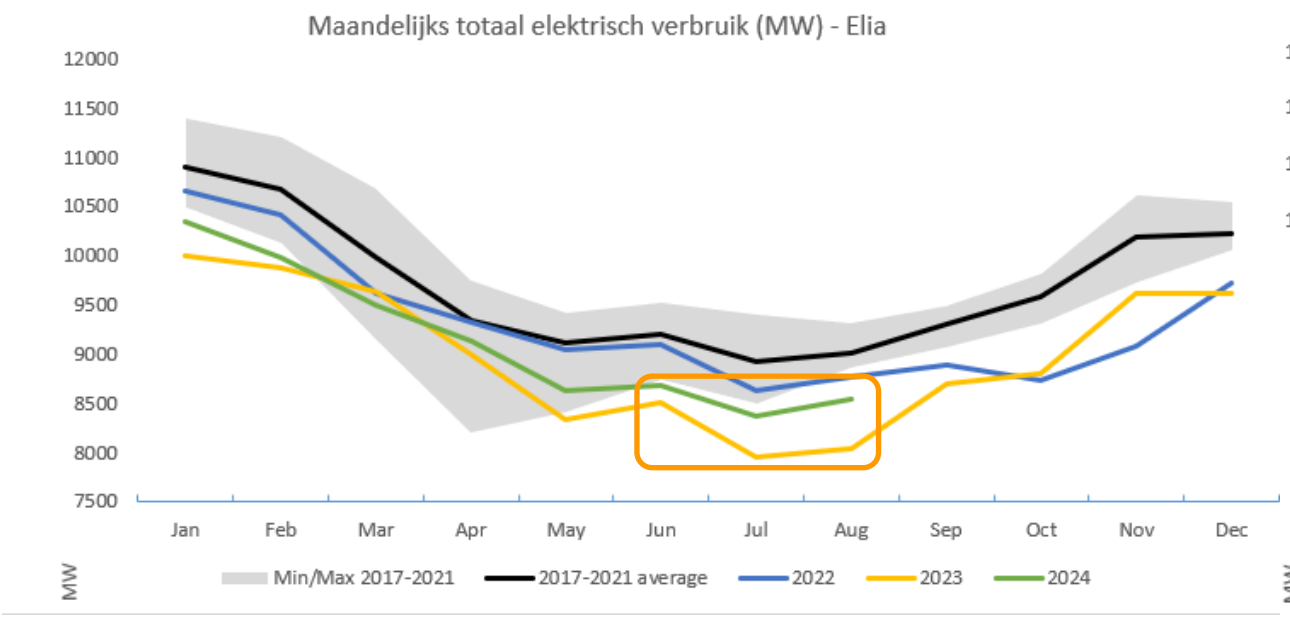


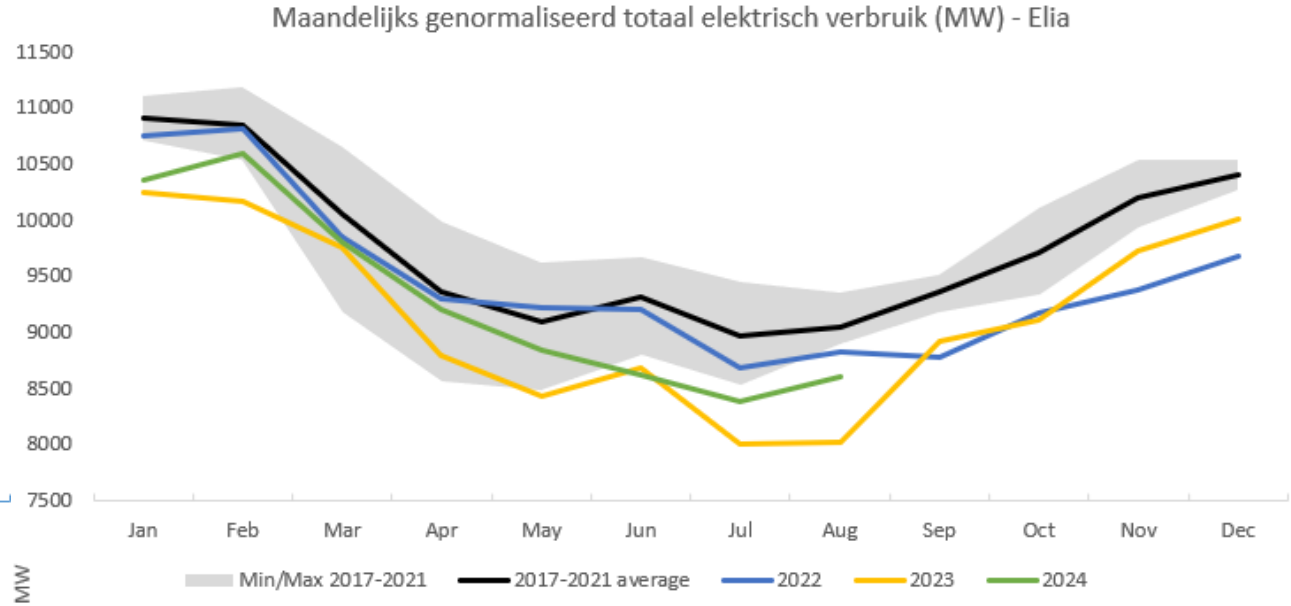


Wind production in line with previous summers, also during weekends, …

Historic percentiles are based on the summers of 2015 until 2023

Total Load

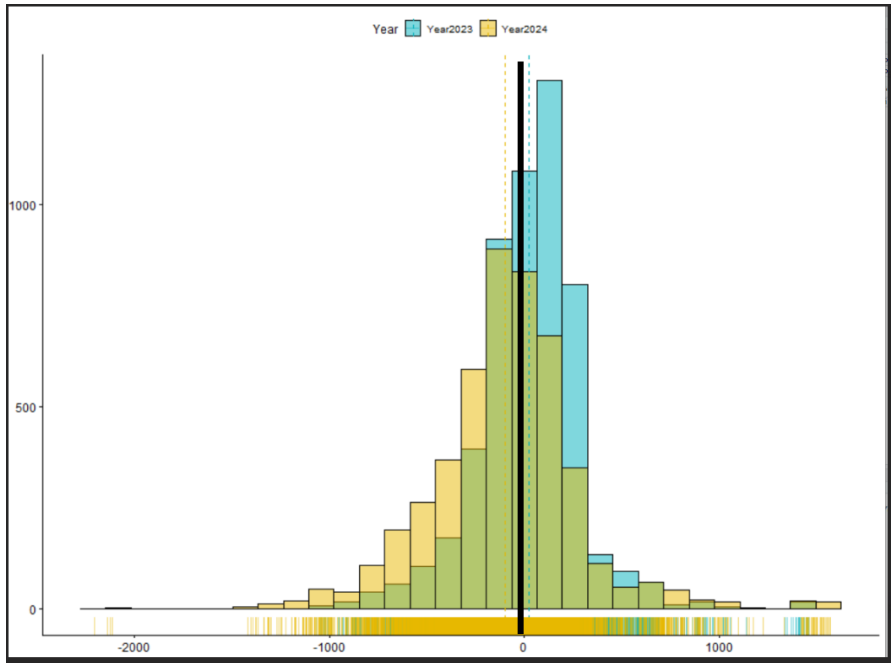




Total load still below values before energy crisis but…
we identify an increase compared to summer 2023 which means up to 500 MW more.

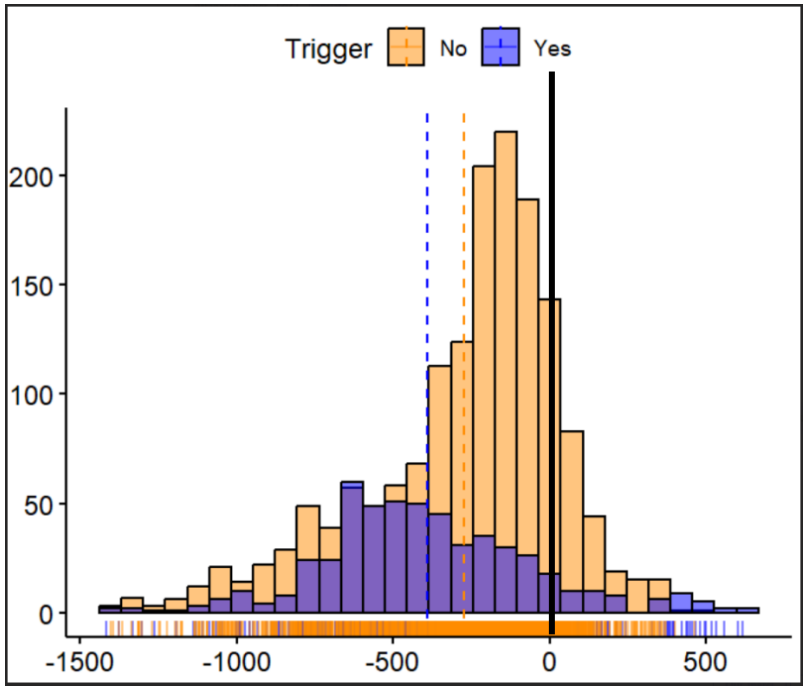
Global DA BRP Open Position

2023 vs 2024



The more negative, the more, BRPs have a short position.

2024 vs 2024 when D-1 high Risk of Incompressibility is triggered

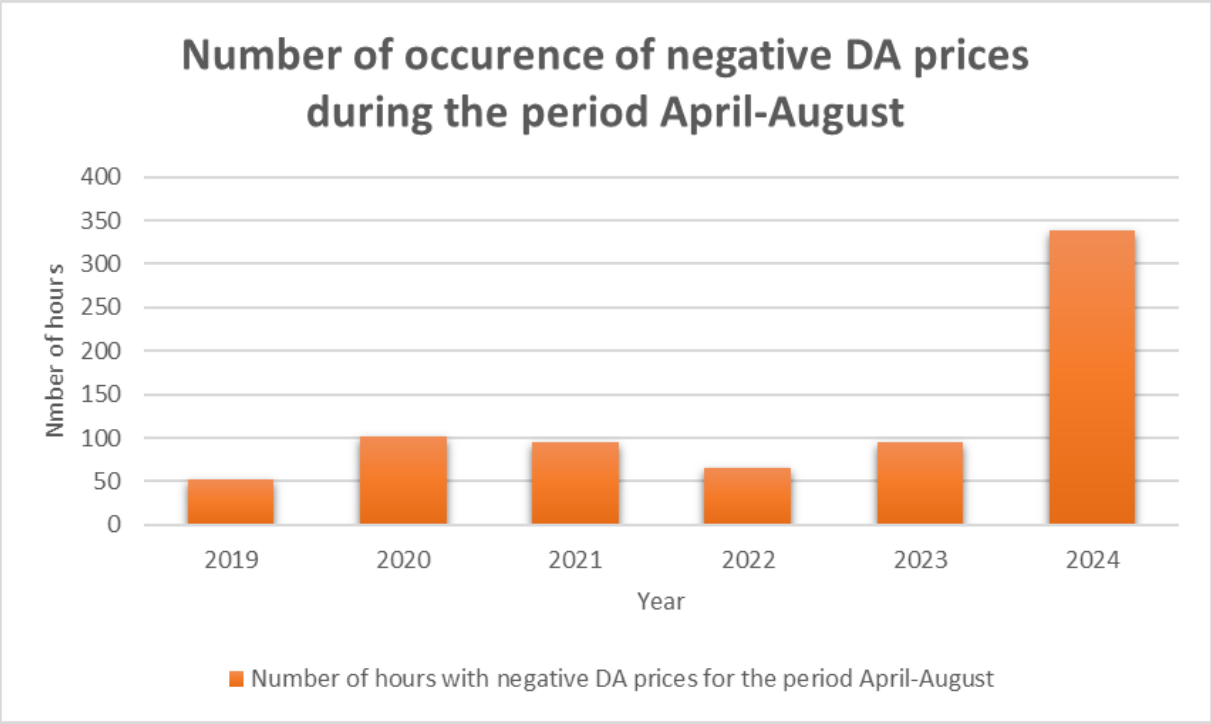


	W-1	D-1	W-1 &D-1	No W-1 & D-1
#	21	23	14	9

Large different behavior between 2023 and 2024 in terms of Global DA BRP Open Position and this effect is even stronger when a D-1 high Risk of Incompressibility is covered.

Day-ahead market analysis

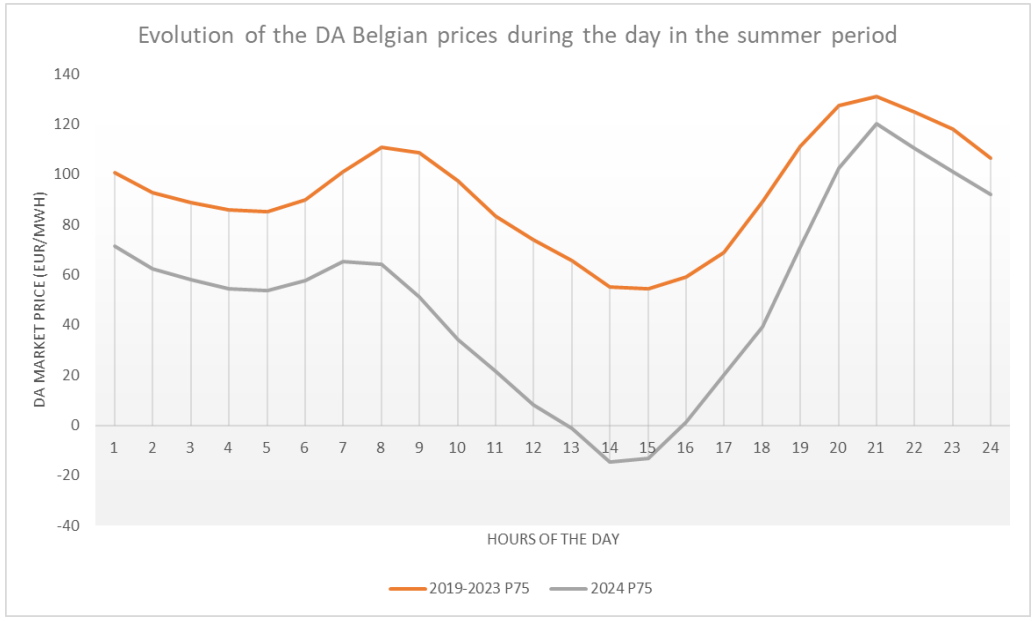
Analysis of the number of hours concerned by Negative Day-Ahead market prices in Belgium

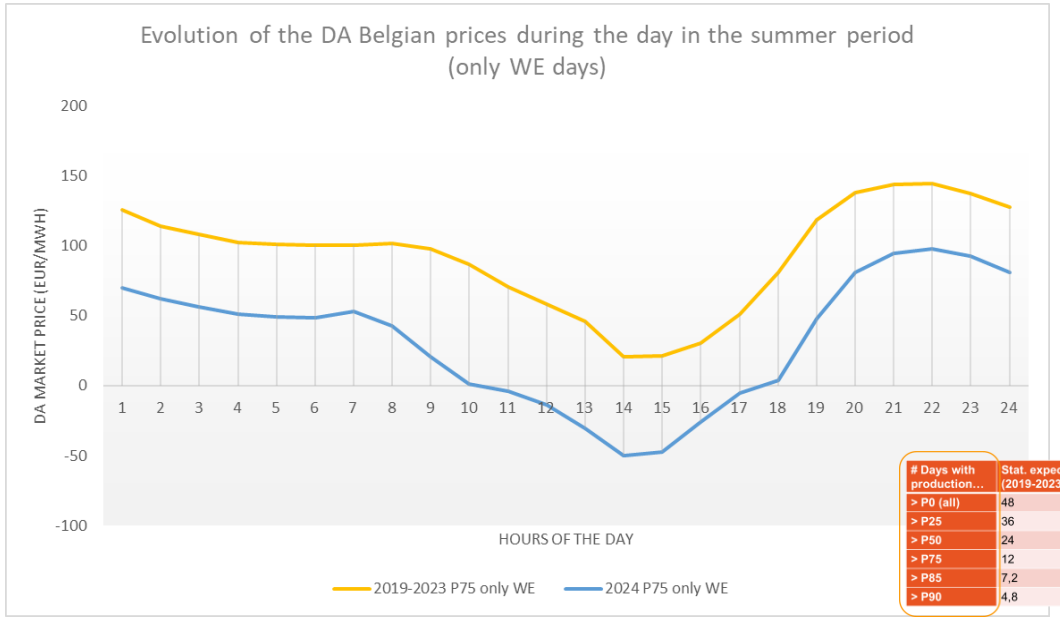


The number of hours with DA negative price is significantly higher in 2024 compared to the previous years during the same summer period.

Analysis of the evolution of the Day-Ahead market prices during the summer period

For this analysis, the dataset contains only the days that falls above a P75 solar production factor based on the Summer periods (April-August) from 2019 to 2023.





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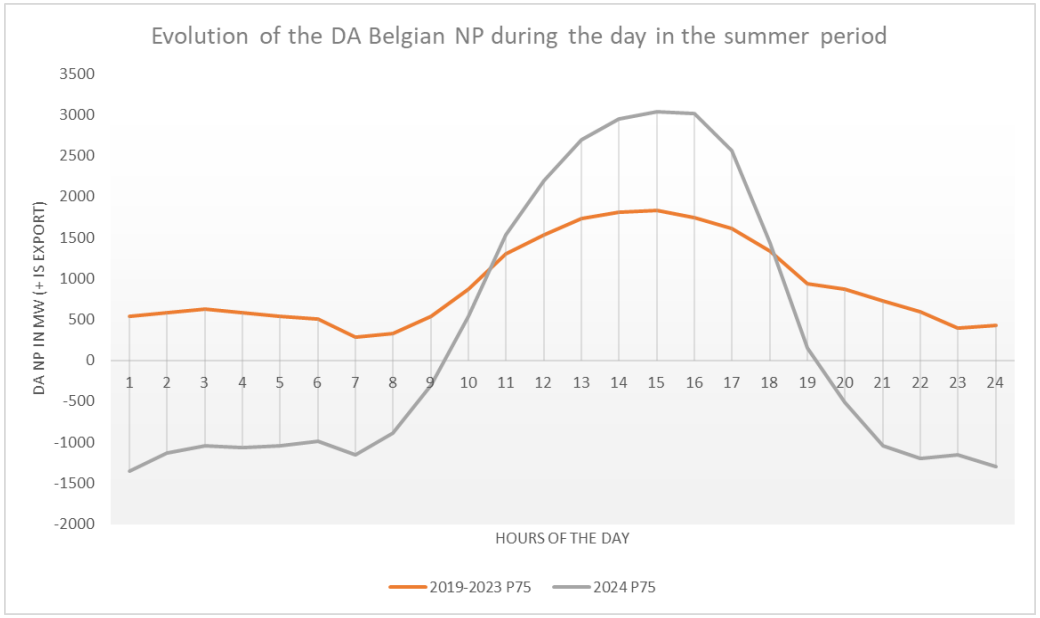
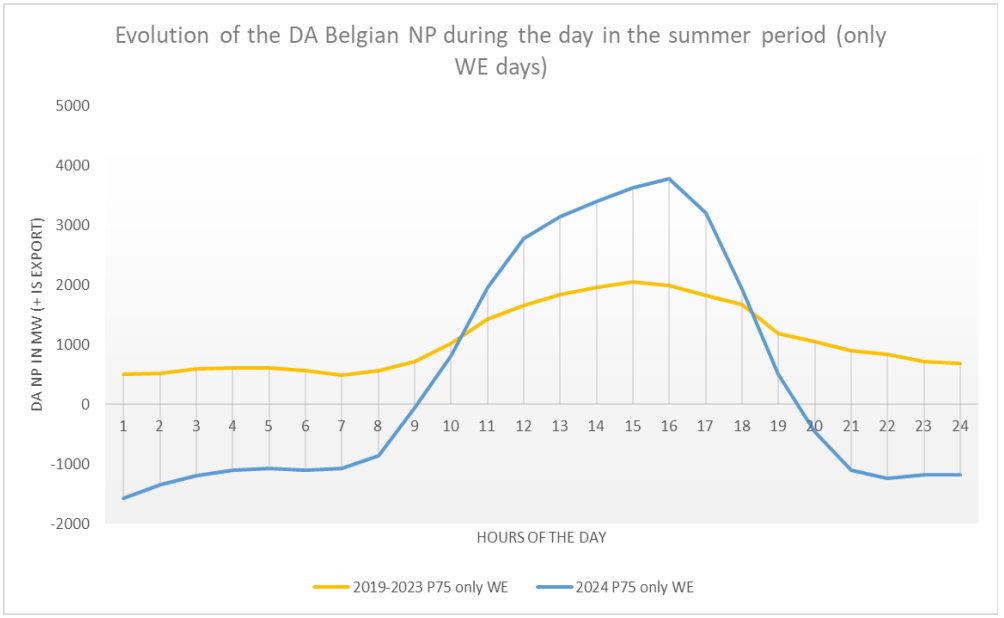
> P75	12	4
> P85	7,2	1
> P90	4,8	0

Lower DA prices were obtained for 2024 compared to the period 2019-2023. During the solar production peak, negative prices are observed, especially during the week-end days.

Analysis of the evolution of the Day-Ahead Net Position during the summer period

For this analysis, the dataset contains only the days that falls above a P75 solar production factor based on the Summer periods (April-August) from 2019 to 2023.



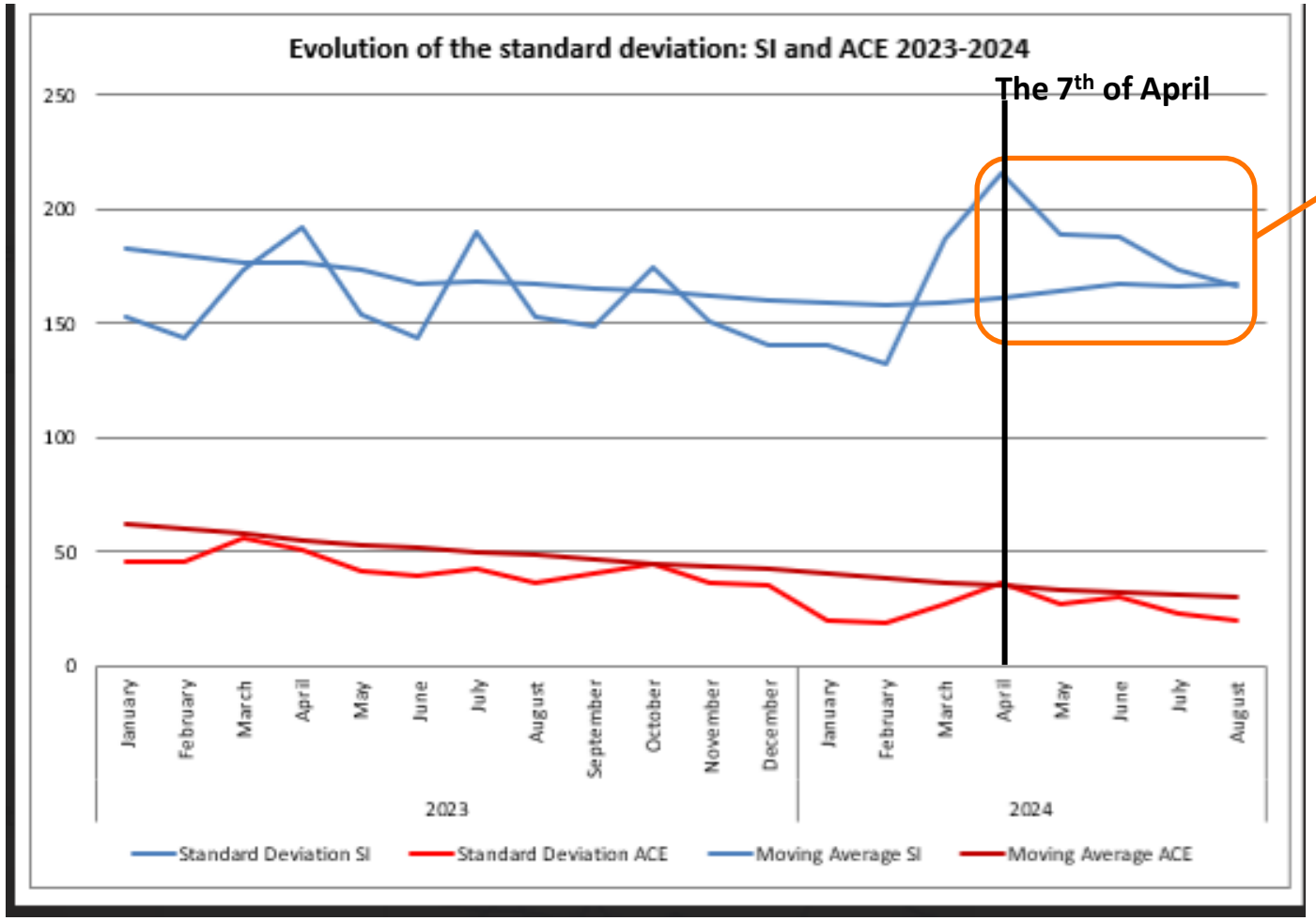


During the solar production peak, Belgium was exporting more in Day-Ahead compared to the previous years, especially during the week-end.

System Imbalance

Summer 2024

System Imbalance & ACE



Significant improvement/changes of the largest contributors in case of positive balance

+

In combination with the Elia awareness plan, the weather conditions, the larger DA open position, the Total Load Increase

Note: More used of International support by other TSOs

Datum	MWh	Duration	TSOs
03-Jun	82,75	30min	TenneT
06-Jun	112,5	30min	TenneT
07-Jun	150	60min	TenneT
09-Jun	300	30min	RTE
23-Jun	350	60min	RTE
29-Jun	300	45min	RTE
	1295,25	255min	

Datum	MWh	Duration	TSOs
19-Jul	320	60min	TenneT
	320	60min	

Datum	MWh	Duration	TSOs
04-Aug	270	60min	RTE
30-Aug	275	75min	TenneT
	545	135min	

Take Aways

Summer 2024

Take-aways

- Summer 2024 was a **statistical advantageous scenario compared to period 2019-2023** with
  - Very few (very) sunny days, especially on weekend days & holidays
  - Wind production at par
- Slight increase of the total load
- More often & larger short open position

- … giving market parties and Elia **more room than expected** to balance inflexible with more flexible production assets
- … yielding lower and less frequent export needs than anticipated

More details analysis will come during Plenary meeting 23/09 and WG Grid 01/10

Merci

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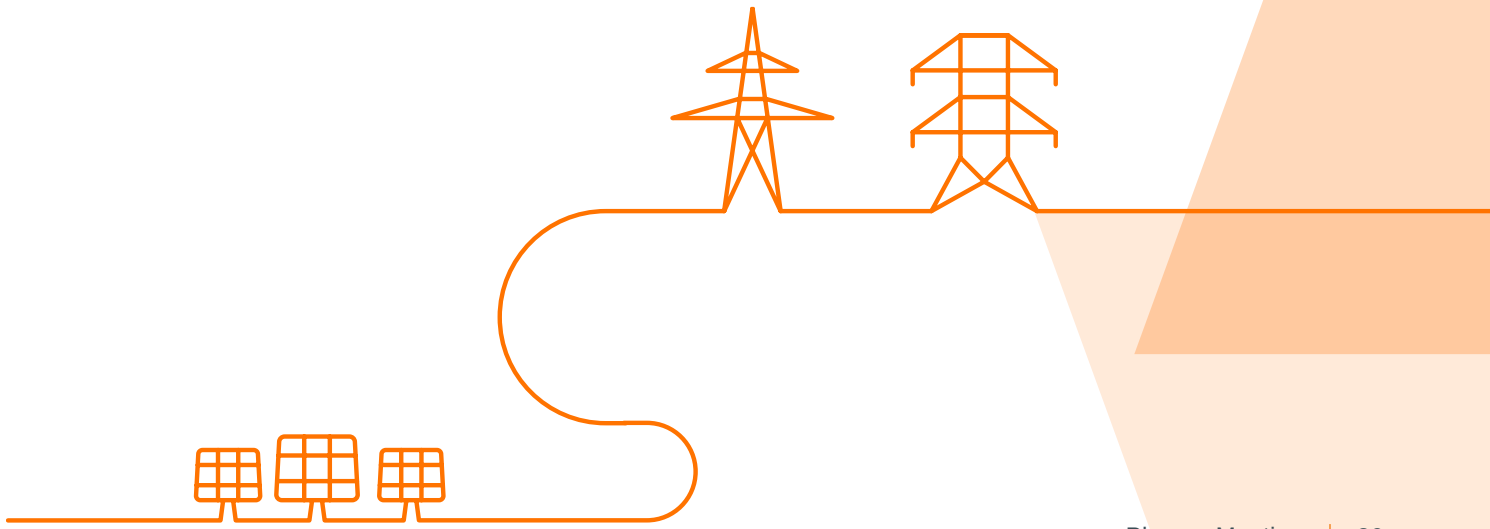


Balancing Incentive 2024 Status

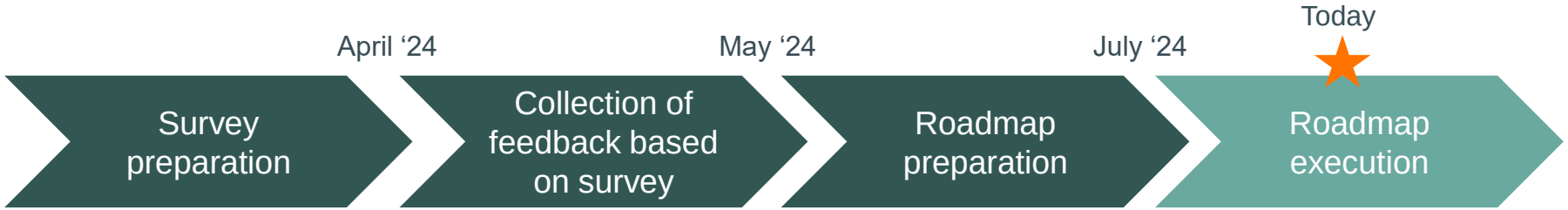
Plenary session 09/2024

Status Balancing Incentive 2024

- Elia has a remuneration incentive linked to the completion of selected projects, decided by CREG[1].
- The five projects selected for 2024 are:
    1. **Data provision:** Amélioration de la mise à disposition de données par Elia
    2. **Flexibility Roadmap:** 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 flexibles
    3. **EMS:** 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
    4. **BRP Settlement:** Processus de facturation des BRP
    5. **Smart Testing:** Implémentation de tests intelligents de la disponibilité des réserves

[1]Décision sur les objectifs à atteindre par la SA Elia Transmission Belgium en 2024 dans le cadre de l'incitant à la promotion de l'équilibre du système visé à l'article 27 de la méthodologie tarifaire | CREG : Commission de Régulation de l'Électricité et du Gaz

Data Provision



Main elements roadmap ‘24

Elia will improve the performance of EPIC to increase user satisfaction

Status First improvements have been implemented to increase the reaction time, further optimization of the front-end will happen in Q4

Elia will investigate to open the sftp that Elia shares with the CREG with data available on the ENTSO-E transparency platform

Status Investigation ongoing

Elia will make available an API solution so that Elia stakeholders can access data for which they are the grid user

Status Beta testing is ongoing with 3 grid users, afterwards the solution will be further industrialised in Q4

Elia will make available an API that contains the carbon intensity of the produced electricity in the Belgian grid

Status The calculation is done and already accessible for your own consumption in EPIC. Broader availability of the data set will follow in Q4

Flexibility Roadmap

Objective 1 : Ensure transparency on activation of units with flexible access in case of congestions

- Elia is currently doing the **needed development** to implement the **reporting** on flexibility activations
- **Reporting** will be **presented** during a **workshop in Q4-2024**

Objective 2 : Develop a methodology to integrate flexibility in the Grid User Business Case in the context of the EOS/EDS

- A **design** was **established** and **consulted** in June 24
- Elia is **addressing** the **feedback from Market Parties** and will integrate this in **an update design** and reflect it in a proposed **amendment of the Code of Conduct** by end-of-September

Objective 3 : Vision and roadmap on the role of flexibility in the grid planning

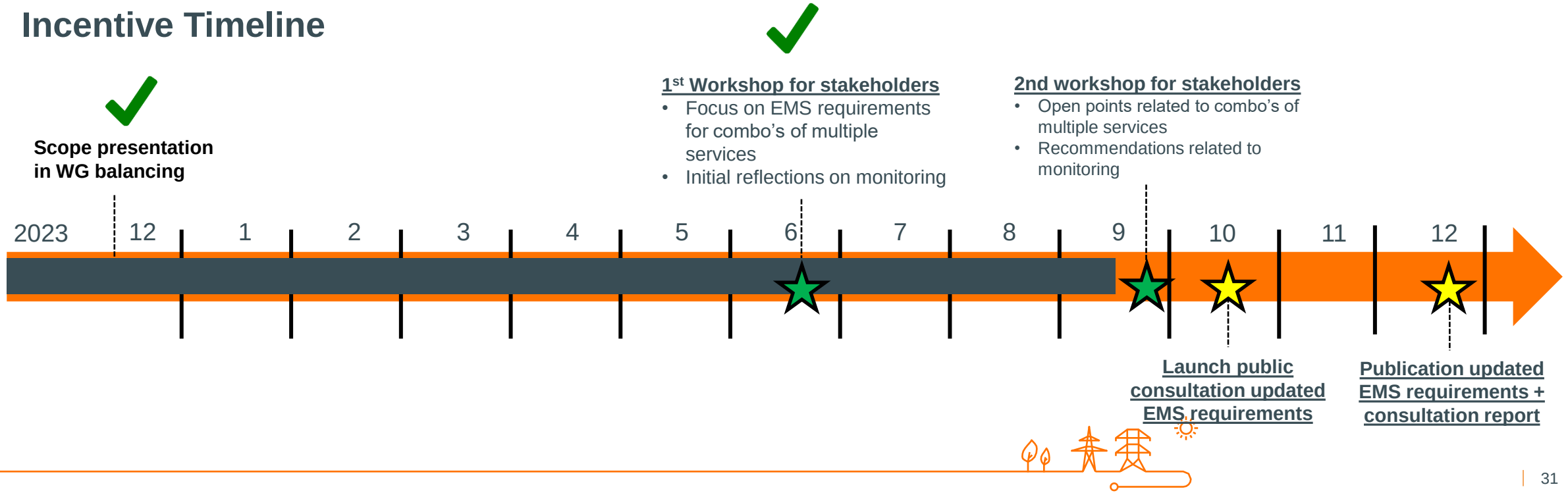
- A **design** was **established** and **consulted** in June 24
- **Additional workshops** are foreseen in **Q4-2024** to **identify the needs** from the **Grid Users** that **aren't covered** yet and to **establish a roadmap** to **address those needs**

EMS: Energy Management Strategy

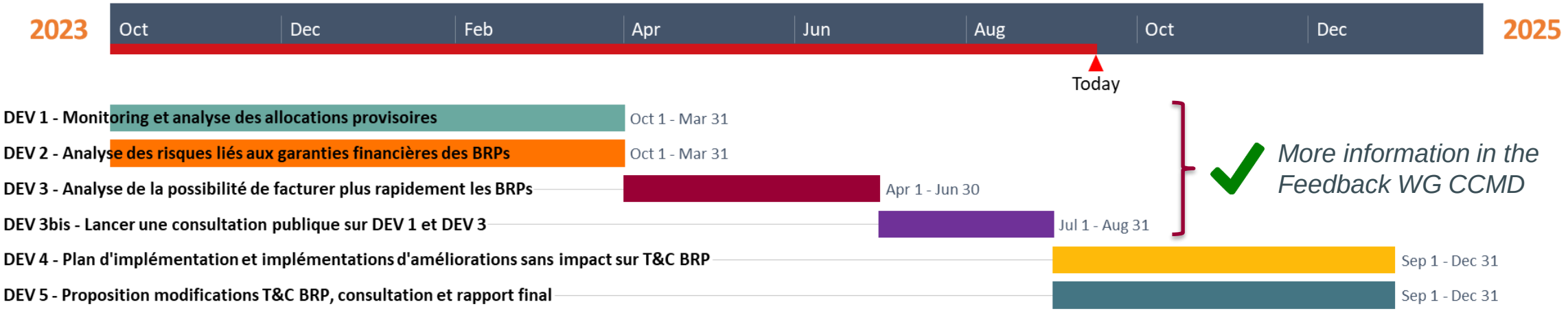
1) **To adapt or expand the energy-management strategy requirements** applicable for Delivery Points with Limited Energy Reservoir (e.g., batteries) that participate to multiple services (e.g., FCR, aFRR, mFRR and/or DA/ID markets)

2) To **assess the need for specific control mechanisms** to ensure BSPs respect the EMS strategies and, if applicable, define possible control mechanisms

Incentive Timeline



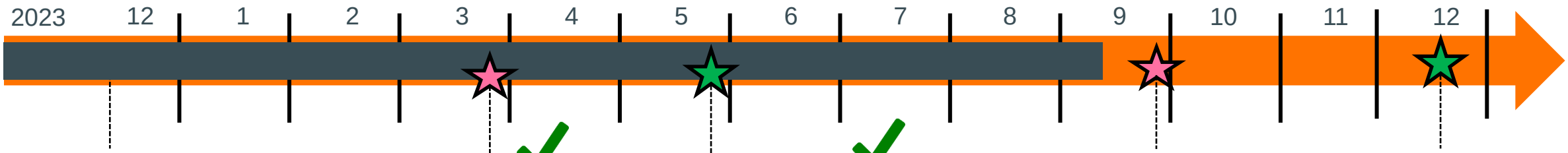
BRP Settlement



Next steps

1. Submit an implementation plan
2. Implement improvements that don't require an update of the T&C BRP
3. Make a proposition for the T&C BRP modifications
4. Consult WG Energy Solutions
5. Final report for CREG

Smart Testing



Scope presentation in WG balancing

Presentation to MPs
- **Impact evolutions balancing products**
- **Impact incentive prequalification**
- **Reaction to comments from previous PC**

Presentation to MPs
- **Update of the study and applied methodology**

Presentation to MPs
- **Proposal for required changes in T&C mFRR (but no implementation) with modalities for availability testing[1]**

Start parallel run

Presentation results parallel run to CREG

Implementation plan aFRR

Operational use of the developed tools

Next steps

1. Presentation planned in WG Energy Solutions 30/09
    1. Final update on the design methodology
    2. Review of the modalities of availability testing
2. Parallel run testing is ongoing
3. IT implementation is progressing as scheduled

[1] *Input requested from market parties, see Feedback WG BAL*

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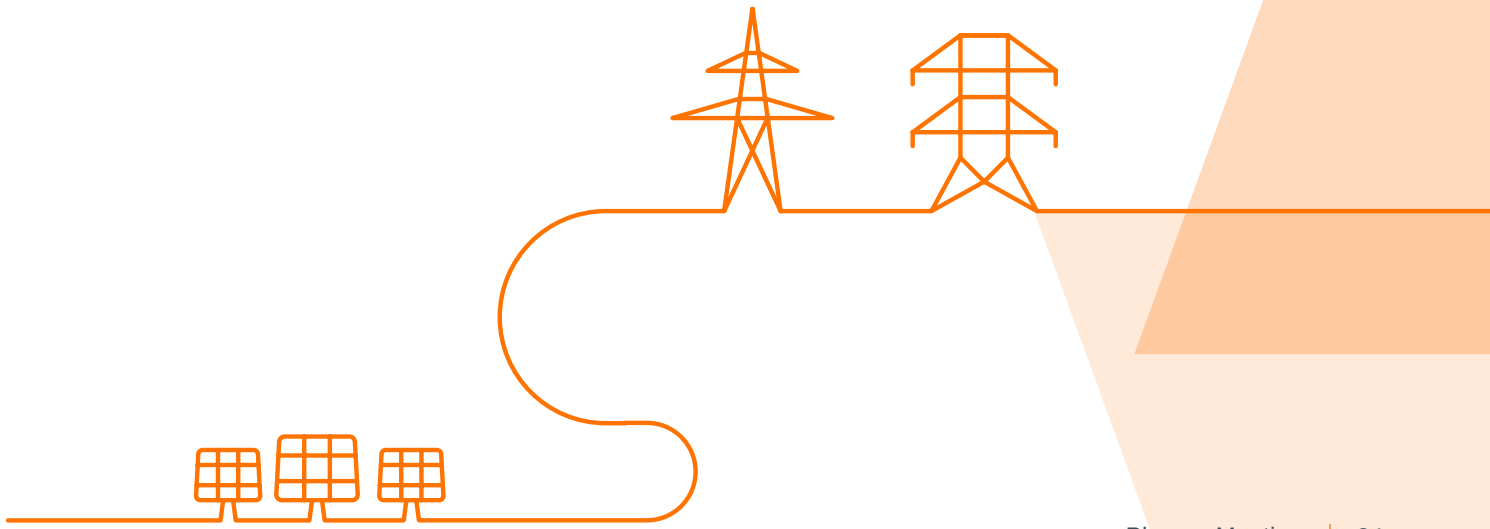


Customer Satisfaction Survey 2024

Plenary Users' Group
23/9/2024

Objectives

Every 2 years, Elia measures the **customer satisfaction** level among its **key stakeholders**:

- DSO
- Grid users
- Producers
- BRP
- Telecom operators
- Aggregators

In 2024, the members of the Users' Group were not interviewed (this was done in 2023).

The main objectives of this survey are:

- providing an **overview of the KPI's of service quality** and their evolution over time
- identifying strengths and weaknesses among the different stakeholders in order to further **optimize the customer relationship**.

Methodology

Target group: stakeholders / partners of Elia

- Elia provided a database with 406 eligible contact persons. Elia has sent an announcement e-mail to all these contact persons in order to introduce the survey and to motivate them to participate.

Methodology:

- Telephone interviews in June 2024 & week of August 19

Sample:

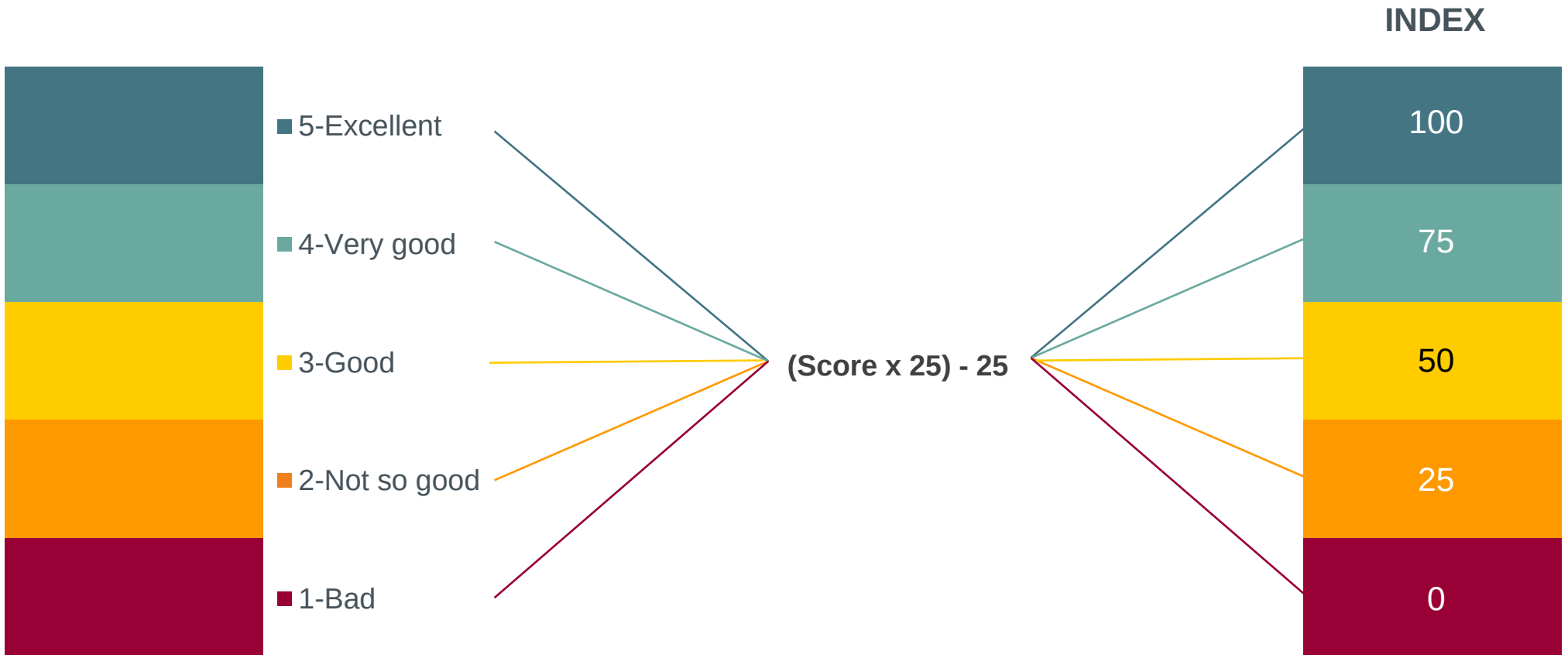
- We conducted n=233 interviews
- Very high net response: 97% (2022: 90%)

Average interview duration:

- 18 minutes.

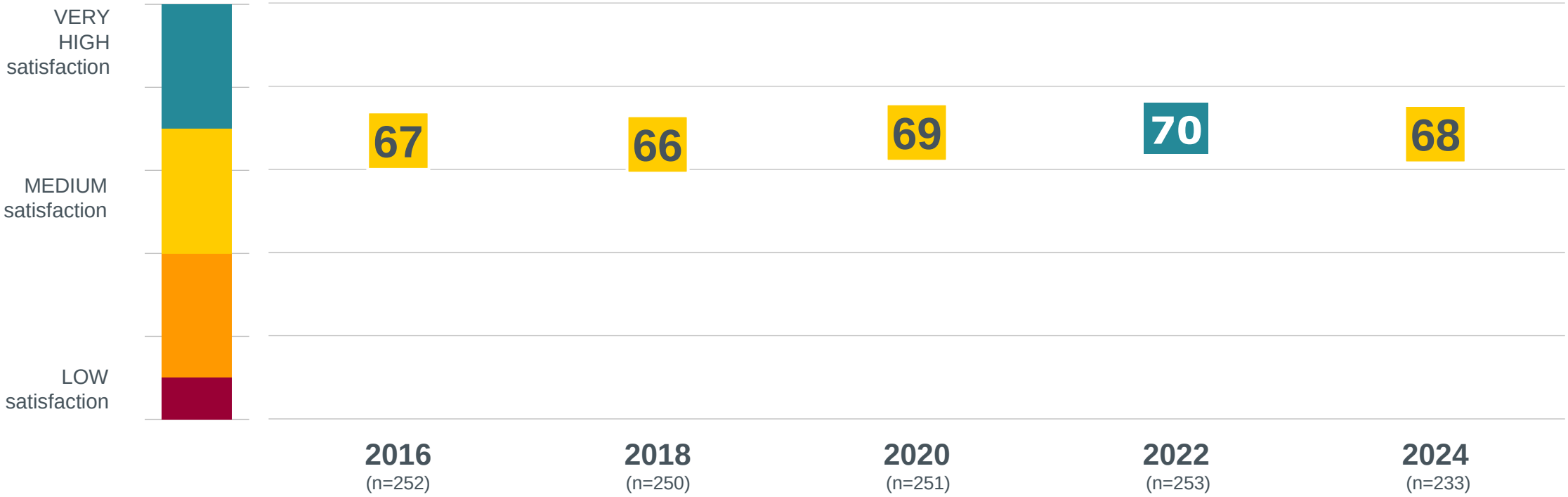
ELIA Satisfaction Index

"How do you evaluate the quality of Elia's services in general?"



ELIA Satisfaction Index

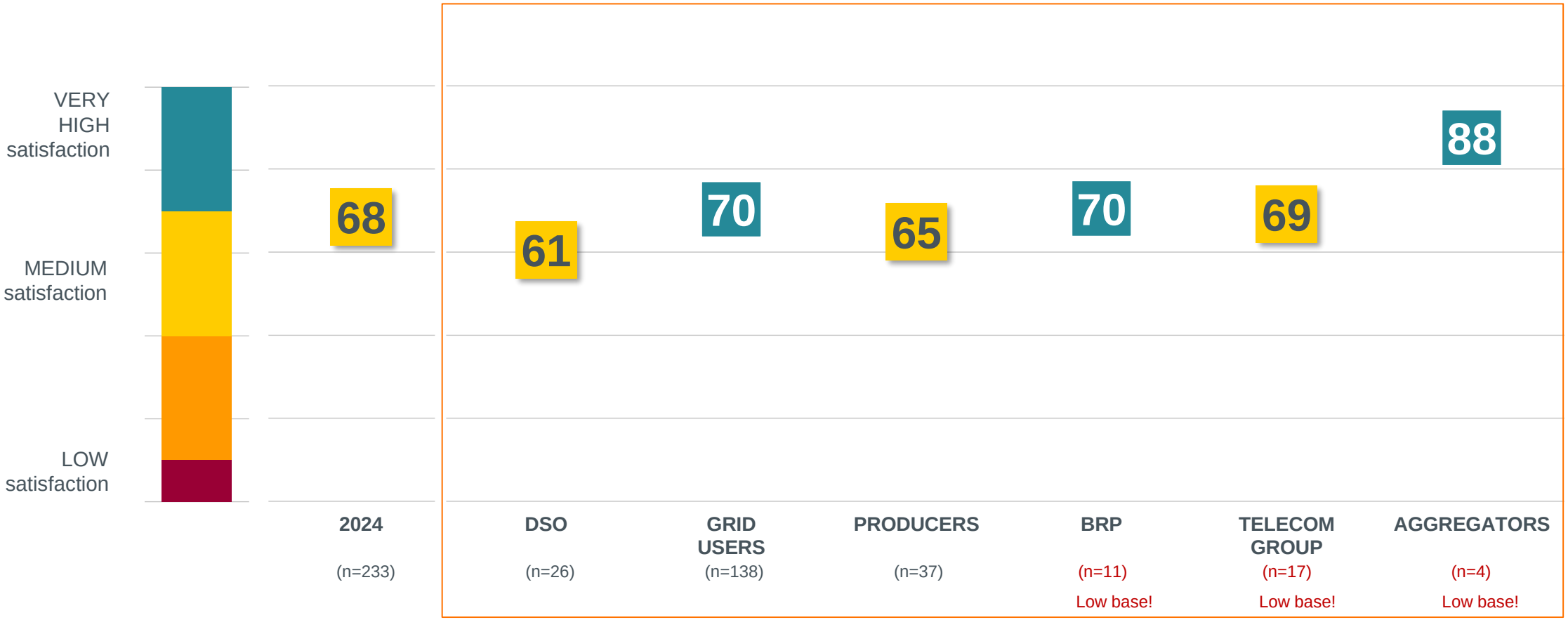
The satisfaction remains quite stable over time, however shows a decline compared to 2022.



Q2.1
Base: Total

ELIA Satisfaction Index

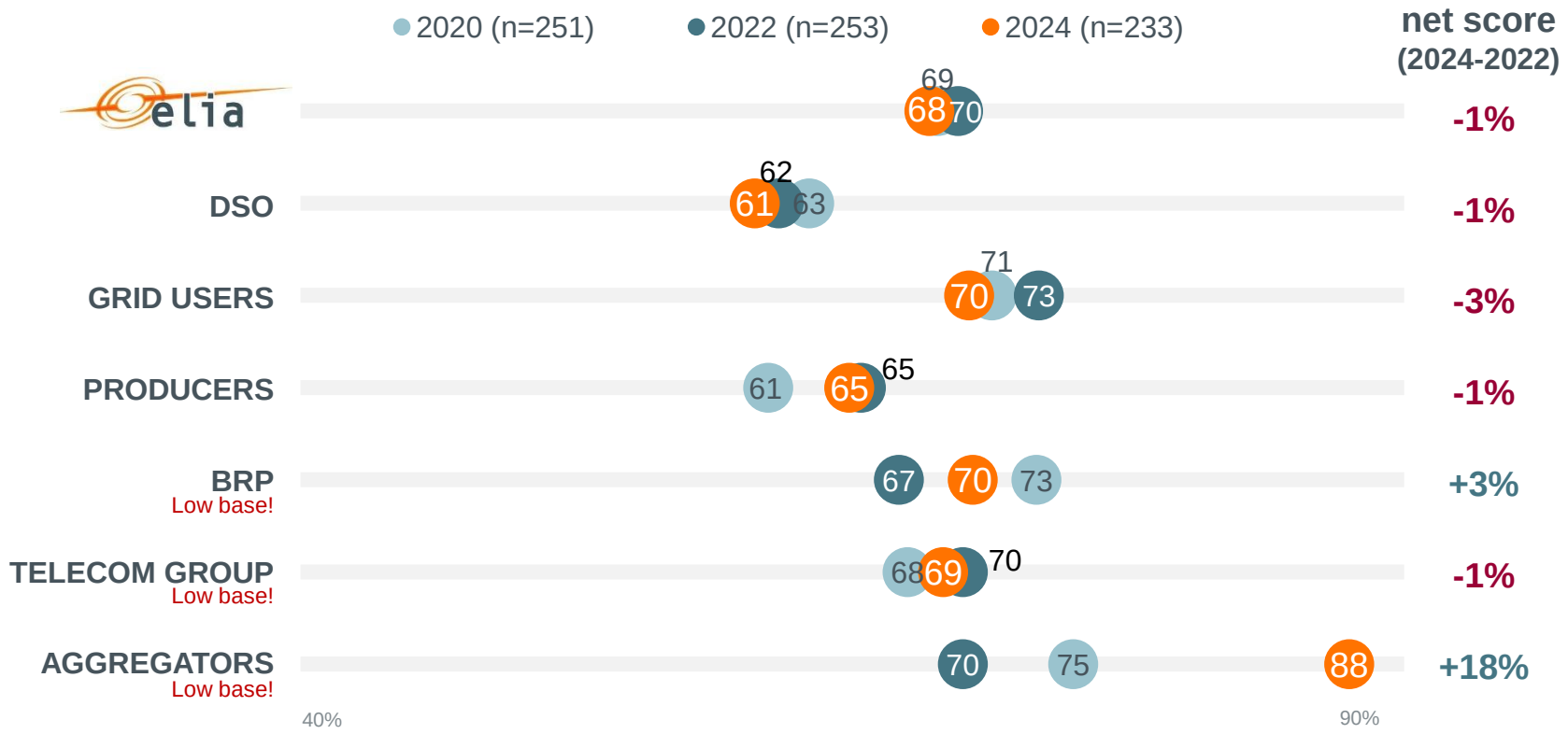
Grid users, BRP and aggregators do reach a satisfaction index of 70 or more. DSO, producers and Telecom Group score lower.



Q2.1
Base: Total

ELIA Satisfaction Index - evolution

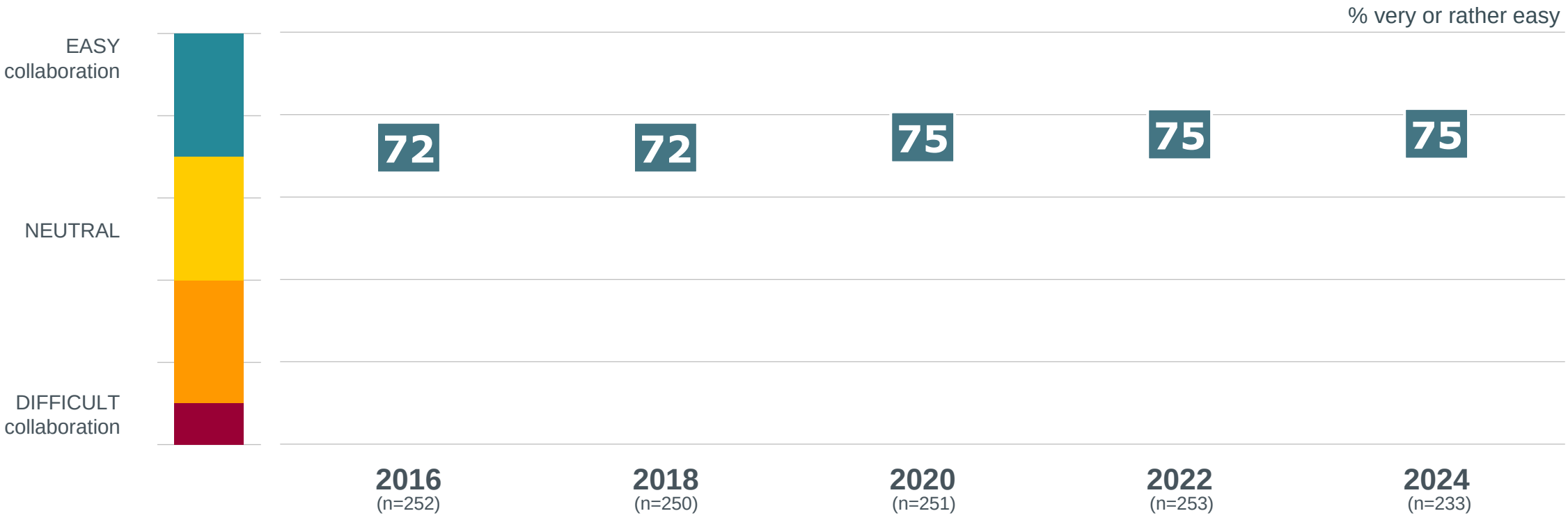
Most categories remained stable. A decrease in satisfaction index of Grid Users (-3%) and increase in BRP (+3%) and aggregators (+18%).



Q2.1
Base: Total

ELIA Customer Effort Score

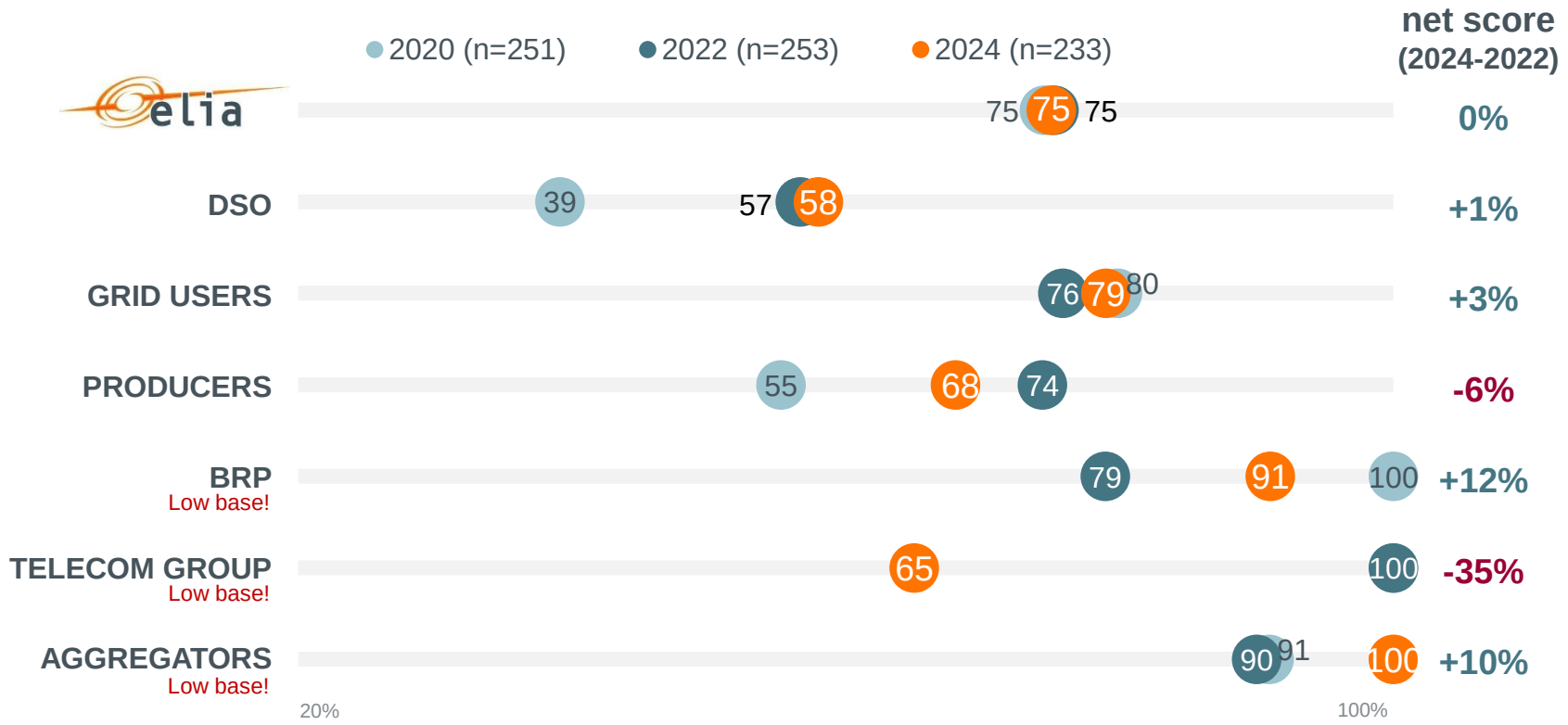
The ease of doing business with Elia remains stable at high level.



Q2.2
Base: Total

ELIA Customer Effort Score - evolution

For most categories, it became easier to work with Elia. It became more difficult to work with ELIA for Producers & Telecom Group (low sample size).



Q2.1
Base: Total

Evolution of KPIs

Elia obtains a 'good' customer satisfaction with a satisfaction index of 68 (2022: 70)

- All stakeholders balance around 70 or above (very good), except for producers and DSOs. The Grid User category showed a decrease but remains **'very good'** (despite challenging context). Aggregators score 'excellent'.

The ease of doing business with Elia remains stable at 75 ('very good').

- The collaboration with DSOs remains most difficult. The collaboration with Producers and Telecom declined compared to 2022.

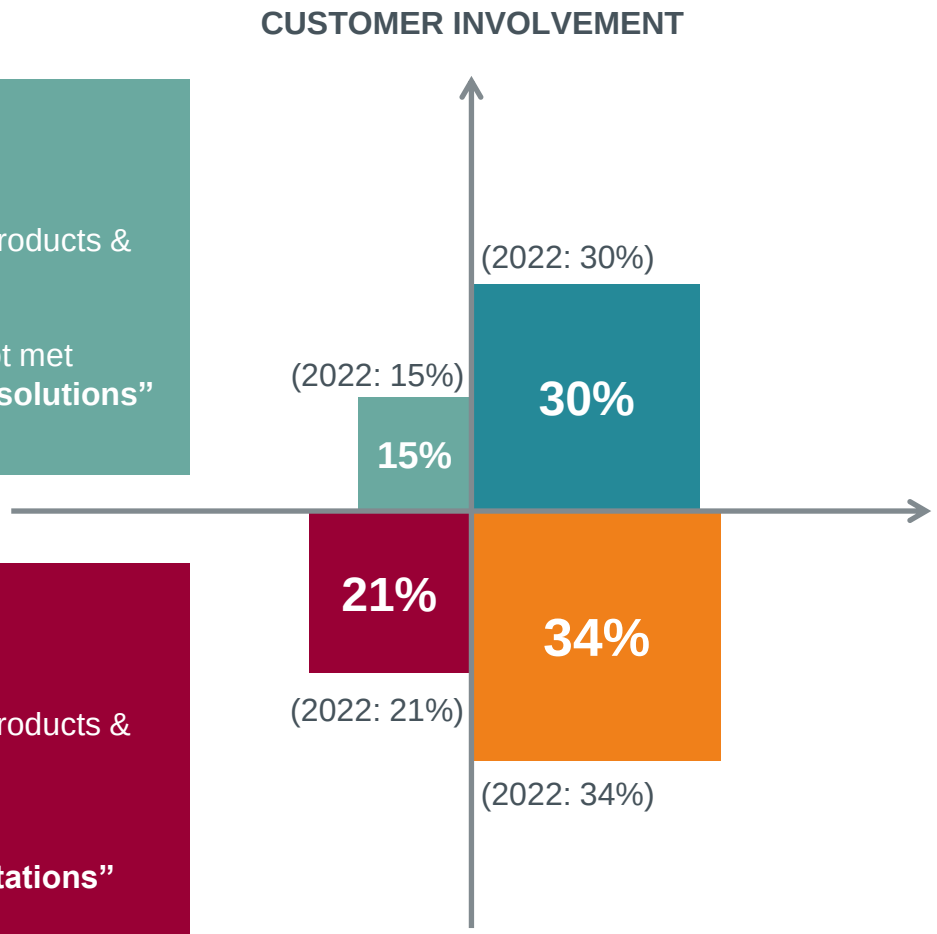
Satisfaction about cooperation with Fluxys remains stable. Elia attains a slightly higher satisfaction index than its benchmark.

A 'good' Customer Satisfaction Index and 'very good' Customer Effort Score.

Important to keep an eye on the lower scores among DSOs & producers and to reverse decrease for Grid Users satisfaction.

Segmentation

45% of stakeholders are actively involved in discussions or consultations.
No changes compared to 2022.



STRONGHOLDERS

- Participate actively in discussions or consultations
- Lukewarm satisfaction with current products & services
- Expectations are known, however not met
- **Business objective: "Tailor-made solutions"**

FRONT RUNNERS

- Participate actively in discussions or consultations
- Delighted about current products & services
- Expectations are known and met
- **Business objective: "Innovate together, test initiatives"**

DETACHED

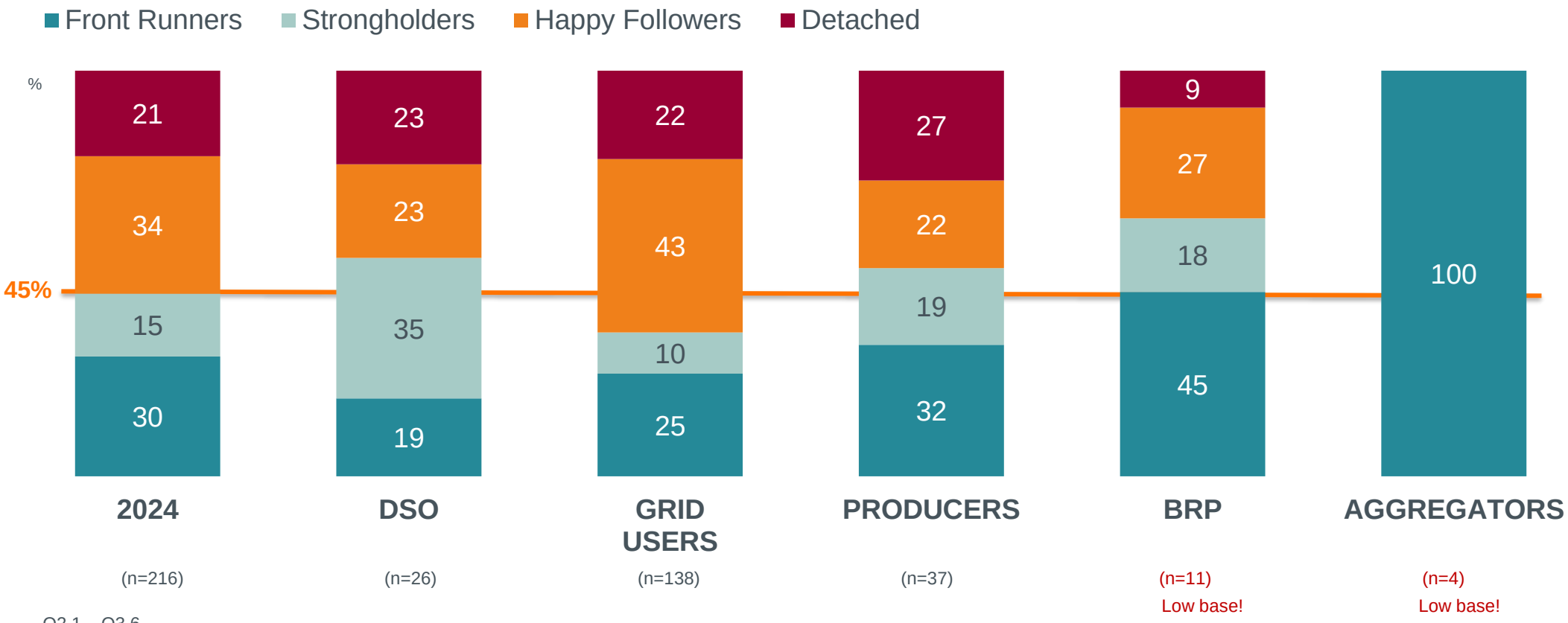
- Do not participate actively in discussions or consultations
- Lukewarm satisfaction with current products & services
- Expectations are unknown
- **Business objective: "Catch expectations"**

HAPPY FOLLOWERS

- Do not participate actively in discussions or consultations
- Delighted about current products & services
- Expectations are known
- **Business objective: "Keep as is. Keep them informed about ongoing developments."**

Segmentation

DSO are more actively involved, but they are less enthusiastic about Elia's current offer.
Among Grid Users there are more Happy Followers.

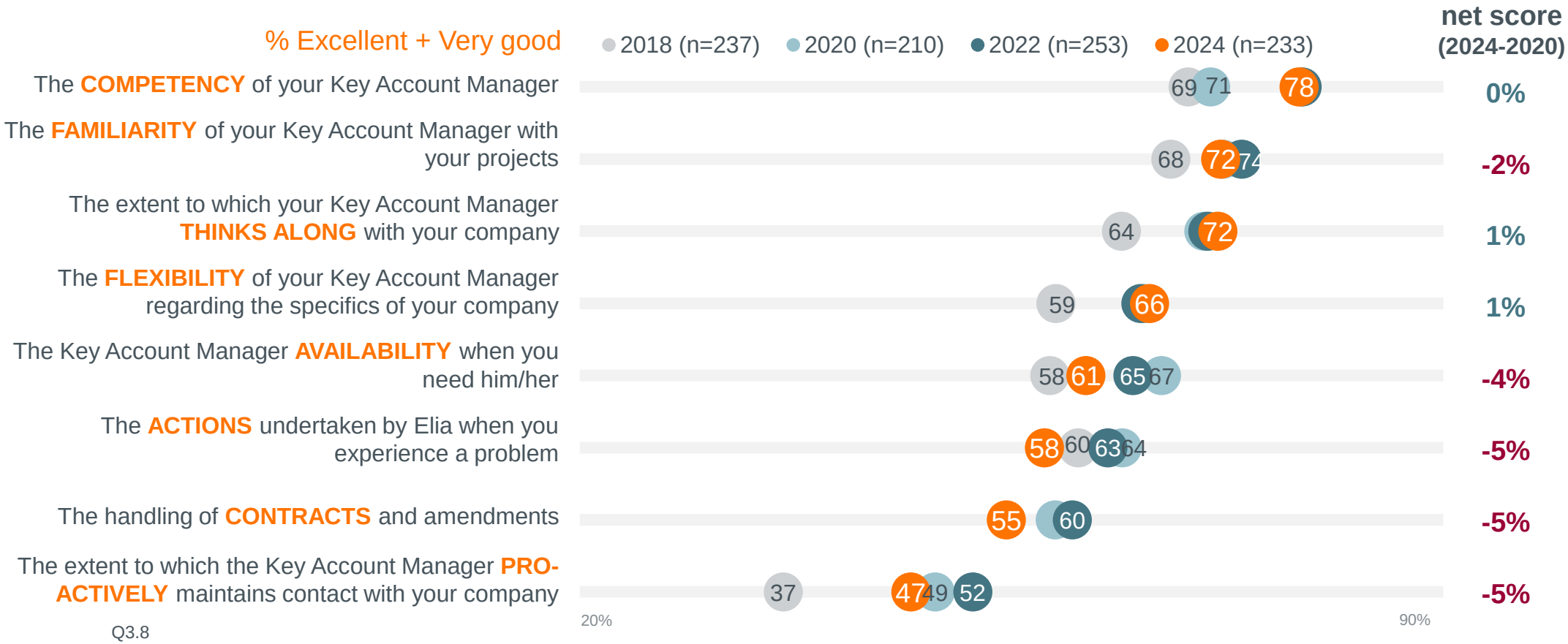


Q2.1 – Q3.6
Base: Total, excl. telecom group

Evolution of Customer Satisfaction regarding Account Management and Image

Evolution of customer satisfaction about Account Management

The acknowledgement of the KAM's competence is confirmed again in 2024. Stakeholders are less enthusiastic about the availability, taking action when needed and proactivity.



Q3.8
Base: Total, excl. Users' Group, excl. not applicable

How can the Key Account Manager serve you even better?

This feedback also comes out in the improvement areas.

6 out of 10 stakeholders do not see any improvement areas

MAIN POINTS FOR IMPROVEMENT

- ✓ React more quickly, better follow up
- ✓ Be more proactive
- ✓ Share more information
- ✓ Availability

Less important

Q3.8.a
Base: Total, excl. Users' Group

> *Meer **proactiviteit**, en als er problemen zich voordoen dan proactief naar oplossingen zoeken. Ik mis **reactiviteit** en de **toelichting** waarom dingen niet kunnen. Informeer ons als je bepaalde dingen niet kunt halen.*

> *Het **ondersteunen** en **responsetijd** als er vragen vanuit technische kant zijn. Het komt meestal bij de juiste persoon terecht, maar komt niet op de juiste responstijd. Aantal keren moeten vragen om een antwoord te krijgen. Ik vind het raar dat de Key Account Manager zelf niet contact met ons opneemt om een antwoord te krijgen.*

> *Le **manque de temps et de ressources**, mieux consacré à ses collaborateurs, plus de temps pour leur client, la disponibilité de ressources internes d'Elia sur le support.*

> *De **beschikbaarheid** bekijken, hoe we die kunnen verbeteren, ze hebben het te druk en aantal keren de zaken of afspraken moeten verzetten en dat we moeten zoeken op welk moment het wel lukt of niet.*

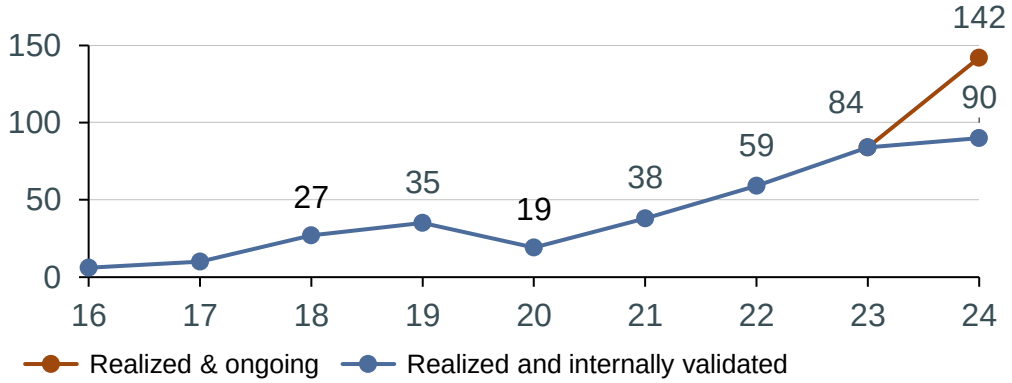
Over the past 3 years, each year ~70% more connection studies ordered

Actions to reduce study lead times:

- Increased staffing (across entire chain)
- Review EOS/EDS process (under discussion with CREG & stakeholders)
- Improve internal follow-up & making process more efficient (automated data transfer, front-office…)
- Improve visibility for Grid User on status of connection study (Connection Life Cycle project)
- Provide better information (Grid Hosting capacity maps) & KAM discussions with clients
- …

Besides, Elia is working on supply chain issues

 # Realized grid studies for EOS/EDS – Status end Aug 2024



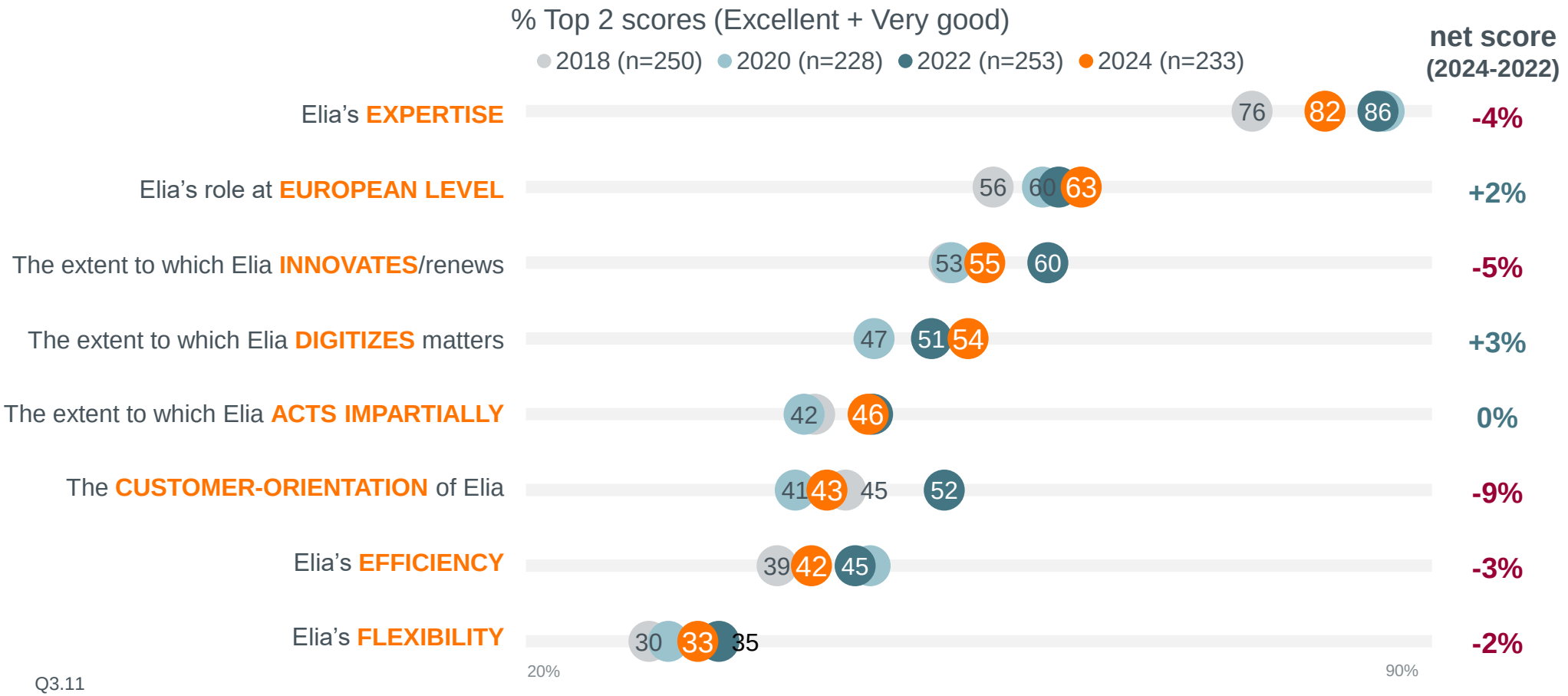

Stroomnetbeheerder Elia bestelt 1.000 kilometer nieuwe kabels

Om de vraag naar meer stroom op te vangen, heeft Elia nieuwe kabels nodig. ©Wouter Van Vooren

Bron: De Tijd

Evolution of customer perception about corporate image

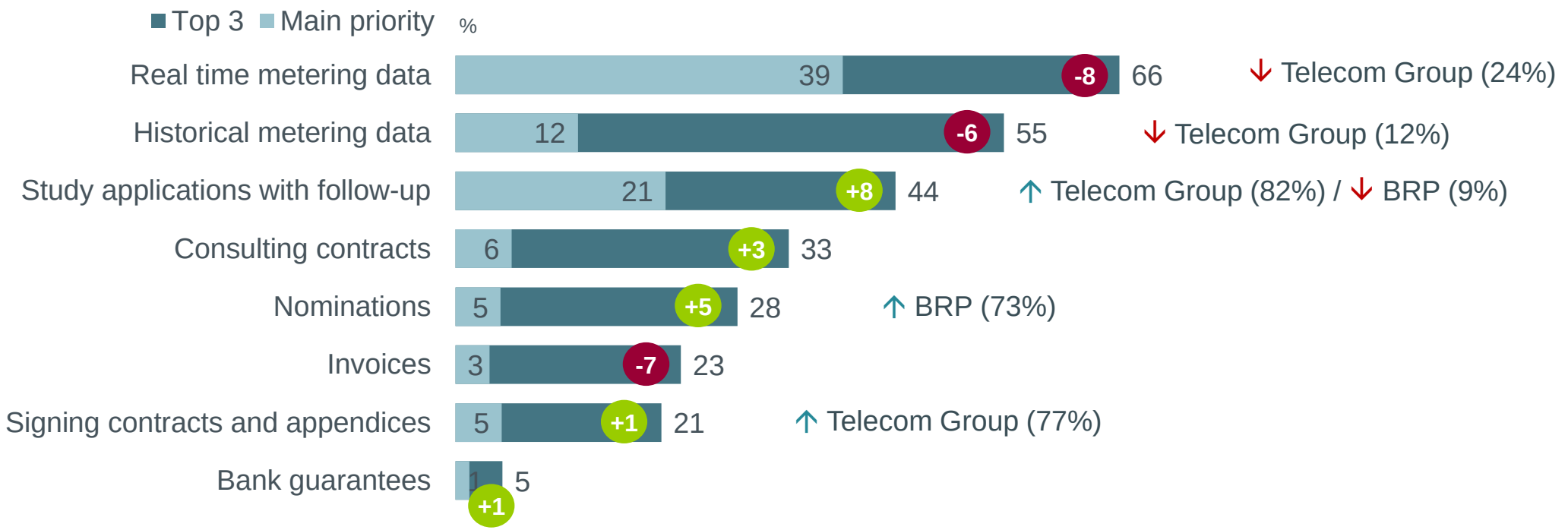
In 2024, Elia's expert role has been reconfirmed. A decrease in customer-orientation and innovation is being observed.



Q3.11
Base: Total, excl. not applicable

Digitalisation – priorities - TOTAL

The key priority for digitalisation remains metering data, both real time & historical data. Study applications with follow up became more important compared to 2022. Priorities differ per stakeholder.

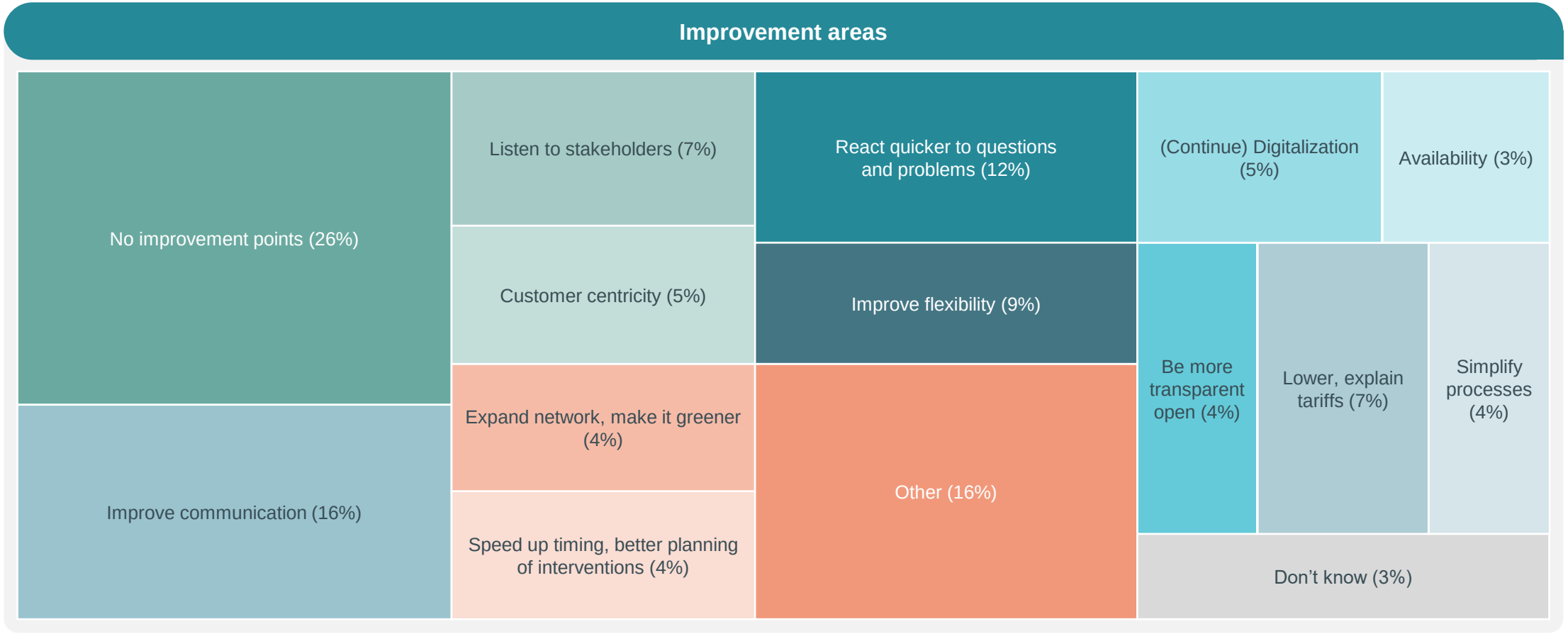


Q3.13
Base: Total (n=233)
What do you think Elia should prioritize when digitizing processes and information?

+ = - **compared to 2022**

Strengths to maintain and priorities to improve

Elia’s main points for improvement



Q6.1
Base: All, excluding Telecom Group

Priority grids

IMPORTANCE
(indexed correlation coefficient)

PRIMARY PRIORITIES TO IMPROVE

Aspects with a high impact on the customers' overall evaluation, but with below average performance.

➔ Focus on these aspects in order to improve the overall customer satisfaction

STRENGTHS TO BE HIGHLIGHTED

Aspects with a high impact on the customers' overall evaluation and with an excellent, above average performance.

➔ These are key strengths which drive your SAT index, so they should be highlighted in communication

SECONDARY PRIORITIES TO IMPROVE

Aspects with a below average performance, but with little or no impact on overall evaluation of Elia's service quality.

➔ Improve these aspects if there are sufficient resources available

MAINTAIN CURRENT PERFORMANCE

Aspects with above average performance, but with little or no impact on overall evaluation of Elia's service quality

➔ Keep these strengths as you are performing already very well

PERFORMANCE
(% TOP 2 – Excellent or Very Good)

Priority Grid for GRID USERS

The main priority for grid users is to establish more 2-way, flexible, proactive and clear communication.

PRIMARY PRIORITIES TO IMPROVE

- The customer orientation of Elia
- The proactivity with which Elia communicates
- The relevance of the information Elia sends you regarding your tasks and roles
- Elia's efficiency
- The availability and responsiveness of Elia staff to your questions or comments
- The consultations Elia carries out to collect your comments about proposed changes to products or contracts
- The clarity with which Elia communicates
- The information provided on Elia's website and its clarity
- Elia's flexibility
- The possibilities you are given to express your opinion of specific projects, products or contracts of Elia
- The extent to which products for support services evolve
- The way in which Elia takes into account feedback it receives from its stakeholders

IMPORTANCE
(indexed correlation coefficient)

	ENTHUSIASTS % excellent + very good	DISSATISFIED % not so good + bad
The customer orientation of Elia	51%	11%
The proactivity with which Elia communicates	51%	9%
The relevance of the information Elia sends you regarding your tasks and roles	49%	10%
Elia's efficiency	48%	12%
The availability and responsiveness of Elia staff to your questions or comments	47%	11%
The consultations Elia carries out to collect your comments about proposed changes to products or contracts	45%	14%
The clarity with which Elia communicates	45%	11%
The information provided on Elia's website and its clarity	45%	8%
Elia's flexibility	35%	21%
The possibilities you are given to express your opinion of specific projects, products or contracts of Elia	31%	13%
The extent to which products for support services evolve	29%	10%
The way in which Elia takes into account feedback it receives from its stakeholders	23%	19%

X-axis crosses on the **average performance** of Elia (TOP 2 avg=52%)
Y-axis crosses on the **average importance** (avg index=100)

PERFORMANCE
(% TOP 2)

GENERAL IMAGE | PRODUCTS & SERVICES | TARIFFS | COMMUNICATION/ INFORMATION
STAKEHOLDERS INVOLVEMENT | KEY ACCOUNT MANAGER | SPECIFIC DSO QUESTIONS

Priority Grid for GRID USERS

The outstanding performance of the KAM remains a strongholder.
The offered products and services are much appreciated.

STRENGTHS TO BE HIGHLIGHTED

	ENTHUSIASTS % excellent + very good	DISSATISFIED % not so good + bad
The competency of your Key Account Manager	80%	1%
The familiarity of your Key Account Manager with your projects	80%	2%
The flexibility of your Key Account Manager regarding the specifics of your company	75%	8%
The extent to which your Key Account Manager thinks along with your company	75%	5%
The Key Account Manager's availability when you need him/her	68%	13%
Prompt availability of your invoices	67%	4%
The possibility to digitally approve appendices to contracts	64%	4%
The actions undertaken by Elia when you experience a problem	63%	8%
The tuning of the planning with your company of the planned outages for maintenance	61%	6%
The provision of data (such as metering data, market prices, …)	60%	6%
The extent to which Elia innovates/renews	59%	2%
The possibility to change billing information	53%	2%
The handling of contracts and amendments	53%	11%
The extent to which Elia acts impartially	53%	8%
The extent to which the Key Account Manager pro-actively maintains contact with your company	52%	12%

IMPORTANCE
(indexed correlation coefficient)

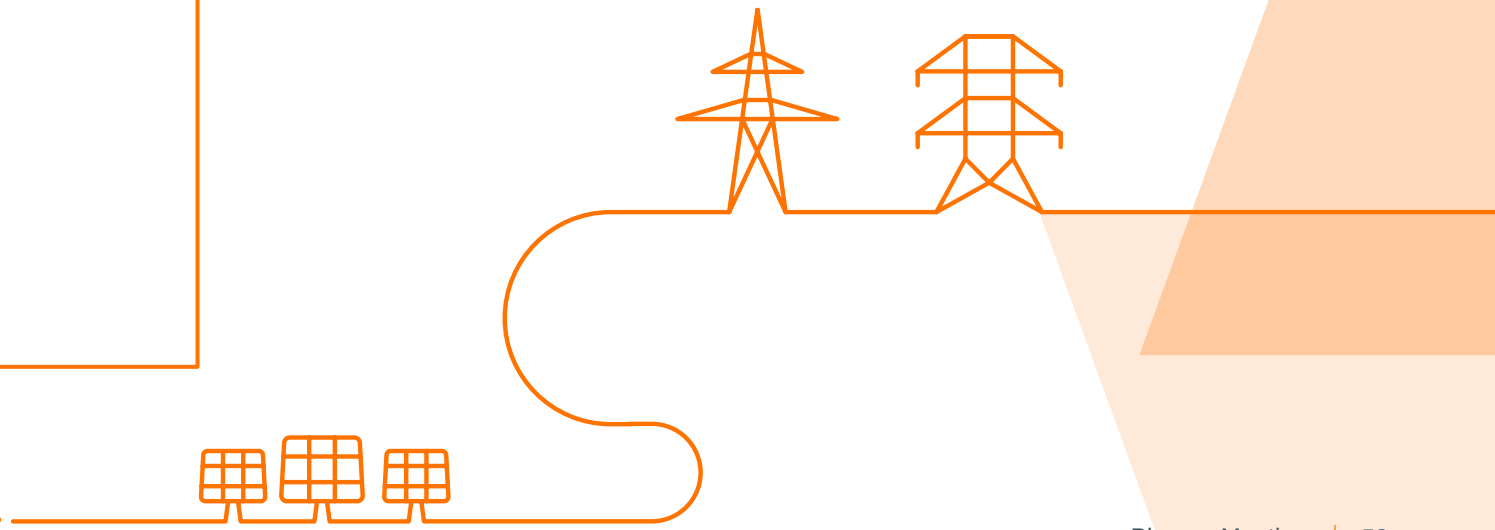
X-axis crosses on the **average performance** of Elia (TOP 2 avg=52%)
Y-axis crosses on the **average importance** (avg index=100)

PERFORMANCE
(% TOP 2)

GENERAL IMAGE **PRODUCTS & SERVICES** **TARIFFS** **COMMUNICATION/ INFORMATION**
STAKEHOLDERS INVOLVEMENT **KEY ACCOUNT MANAGER** **SPECIFIC DSO QUESTIONS**

Agenda

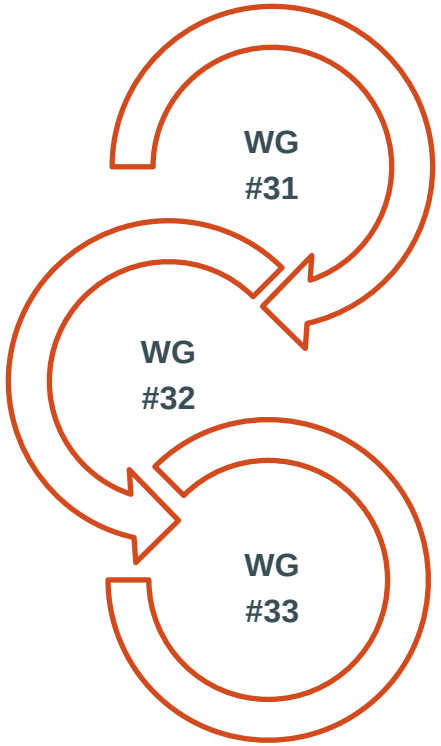
1. **Incompressibility** – *Feedback summer*
2. **Status Balancing incentives 2024**
3. **Results Client Satisfaction Survey**
4. **Feedback Working Groups**
   - 5.1. Working Group **Adequacy**
   - 5.2. Working Group **Balancing**
   - 5.3. Working Group **Belgian Grid**
   - 5.4. Working Group **CCMD**



WG Adequacy

Summary since previous UG

WG Adequacy – Q3 2024 Meetings



14/06/2024

Update on **regulatory framework**
Feedback on Public Consultation
Elia's recommendation

Info on the results for **Priced Study – Load estimations**
Update on the **CRM design**

27/08/2024

27/09/2024

TBD

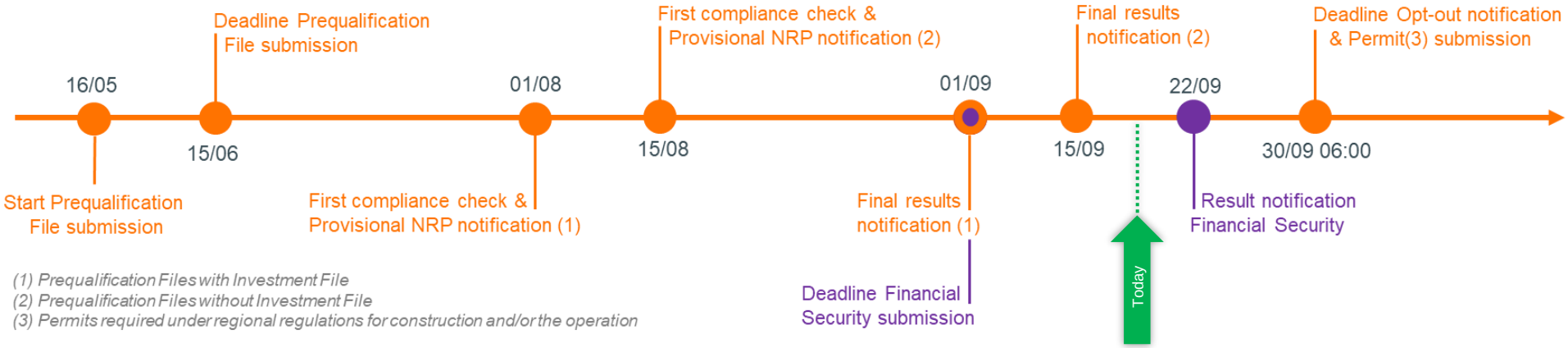
Specific operational workshops are organized to support market parties to implement the complex availability monitoring & payback obligation processes

Main Topics

- Feedback of the **public consultation** on the scenarios, sensitivities and data for the CRM parameter calculation for the Y-1 Auction for Delivery Period 2026-2027, the Y-2 auction with Delivery Period 2027-28 and the Y-4 Auction for Delivery Period 2028-2029
  - Feedback from 4 stakeholders (non-confidential) + 2 stakeholders with confidential feedback.
  - Discussions on **input data**, such as large-scale batteries, electricity demand, demand response, data for other countries, minRAM 70%, … , as well as the proposed **sensitivities**.
  - **PRICED presentation by E-Cube**: Review of the load projections for industry, residential & tertiary sector considering the realised 2022 & 2023 load.
    - Elia's proposals for the load trajectories for the CRM calibration of the 2026-27/Y-1, 2027-28/Y-2 and 2029-30/Y-4 auctions
- Clarification on the revenues calculation methodology for the IPC & IPC derogation.
- Roadmap towards **design changes** in preparation of Functioning Rules v5 : **public consultation** to be launched on 22/11.
  - Main topics include ToE for low voltage, refinements in availability monitoring (overperformance, AS corrections, exemption on the payback obligation, activation ratio);
  - CRM design update on the **baseline design note** that was published on Friday 30/08 to (i) simplify and improve the accuracy of the existing High X of Y methodology and (ii) introduce a new declarative baseline method in parallel.
- Publication of positive EC decision on CRM renotification of 13/9 online. As a result, the payback exemption for DSM, activation ratio and multiyear contracts for existing capacities will apply for the CRM auctions in 2024.

2024 Y-1 & Y-4 CRM Auction Operations ongoing

- The updated User Manuals are available directly in the platform
- Documents and Templates are up-to-date on Elia website CRM page (including updated version of the Functioning Rules after CREG approval of 13/9).



- Any Question? You can contact us via: customer.crm@elia.be

Feedback WG Balancing

WG Balancing 28/06/2024

EU & BE Balancing Program Update

- iCAROS phase 1 & MARI Local Go-Live: confirmed and effective.
- aFRR design evolutions & connection to PICASSO
  - The regulatory part is on track.
  - Implementation :
    - Improving CBMP determination by considering local LFC output: on track
    - Elastic demand implementation on European Level: Developments on track, but sufficient time needed for testing and stabilization

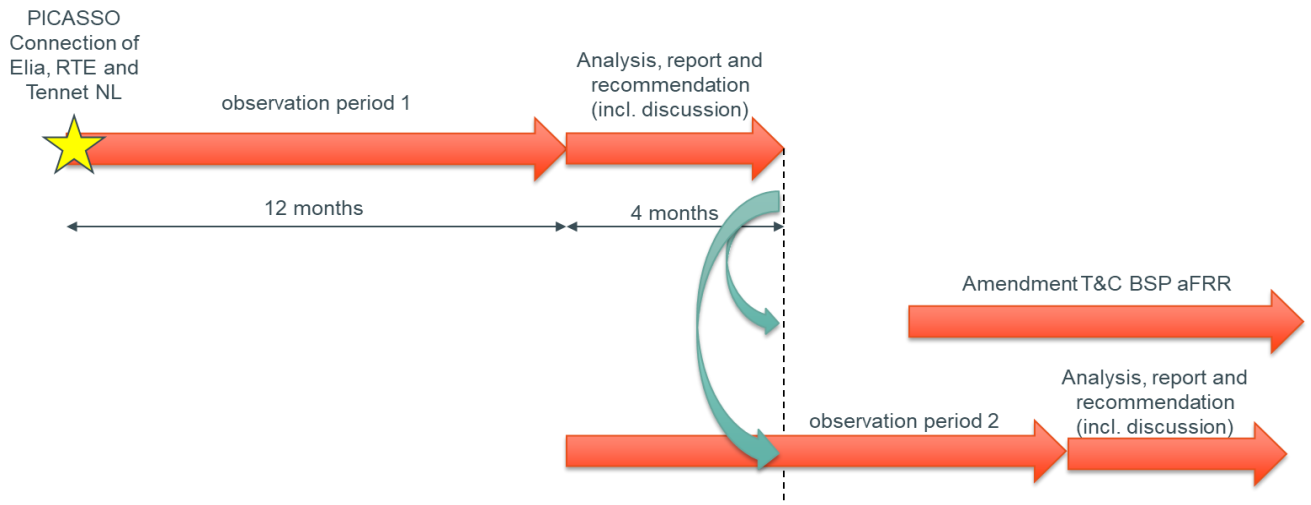
Updated PIM roadmap (PICASSO, iCAROS, MARI)

- Go-live of aFRR dynamic dimensioning & shift of aFRR Capacity auctions from D-2 to D-1 foreseen for 1st of October
- A go live in November for PICASSO Connection & aFRR Design Evolutions is targeted
- Change of aFRR FAT (7,5 to 5 minutes) will happen in the same time window as PICASSO Connection
- MARI connection will be planned a quarter after PICASSO Connection

WG Balancing 28/06/2024

Process for evaluating the bid price limit for contracted aFRR Energy Bids

- In the context of the connection to PICASSO, mitigation measures are foreseen, including a temporary bid price limit.
- Elia proposed an approach based the quantification of key indicators and their evolutions, on a 12-months observation period starting from the connection to PICASSO.



Deterministic Frequency Deviation

- Elia presented a status and intermediate results.

Smart Testing

- Elia requested input from the market parties on the modalities of availability testing.

WG Balancing 28/06/2024

Re-introduction of inter-TSO reserve sharing agreement in imbalance price calculation

- Elia proposed changes to the Tariff Proposal with the objective to re-introduce the mFRR sharing prices in the calculation of the imbalance price in the exact same way as it was before:
  1. **An α' component was added in order to re-introduce the mFRR sharing prices in the imbalance price formula**
  2. **The calibration parameter of the α component was adapted to account for the value of the α' in its calculation**

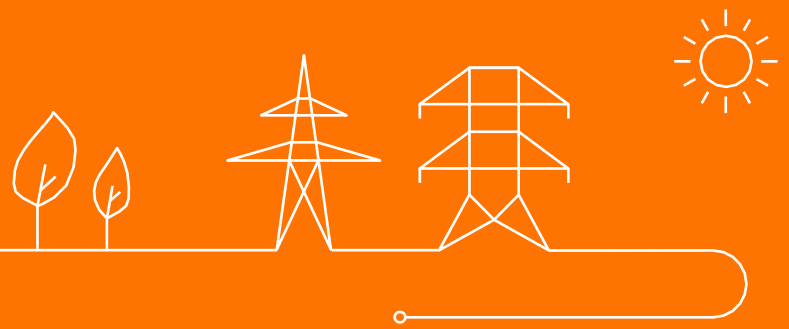
aFRR dimensioning – Parallel run

- On July 19, 2023, CREG approved Elia's proposal on dynamic aFRR dimensioning for implementation on October 1, 2024
- Parallel run from 01/07/2024 till 30/09/2024 to:
  - Allow market parties to get a view on the behaviour of the dimensioning in order to prepare their bidding strategies
  - Allow Elia to assess the performance of the algorithm based on latest system conditions
  - Elia plans to publish the results of the first dynamic calculations for the first time on October 1 (before 7 AM) for aFRR balancing capacity procurement for delivery on October 2
  - The results of the parallel run are published on the website

Users' Group

Working group Belgian Grid

Summer 2024



WG BG of June 27th

Grid Losses:

- Outlook Target year 2026 (Expansion of the grid, Increasing flows & transformers, shunt reactors,…)
- Compensation – BRP coefficient (compensation in kind, coefficient published for y+1 based on estimation of grid losses & expected load evolution)
- Procurement for grid losses=> improve efficiency

Federal Development Plan

- Survey ongoing: coming back on agenda of October's meeting

Connection Contract

- Regulators raising concerns
  - LFDD (mainly in case of LFDD group/CDS),
  - Flexibility (dependency on upcoming GU Flex note, AGW,…)

GUFLEX: EOS-EDS Capacity Reservation:

- See Next slide – extra ad-hoc meeting organized on 28th of August

GU FLEX - EOS-EDS

Capacity Reservation ad-hoc meeting of August 28th

EOS/EDS Process

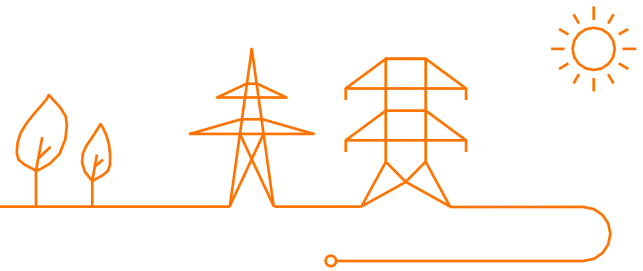
- No serial approach but first-come, first served principle in case of multiple requests for same capacity
- EOS: Timing more important than correctness of results.

Capacity Reservation/allocation

- Capacity reservation for all technologies at study order date
- Reservation max 1 period of 120 days prolongated
- Bank Deposit (secure commitment)
  - Proposal lump sum 10K€/MVA

NEXT STEPS

Submission CREG: 20/09
Workshop flex design: 10/10
→ Need for other workshops to be planned?



Thank you.

Feedback WG CCMD

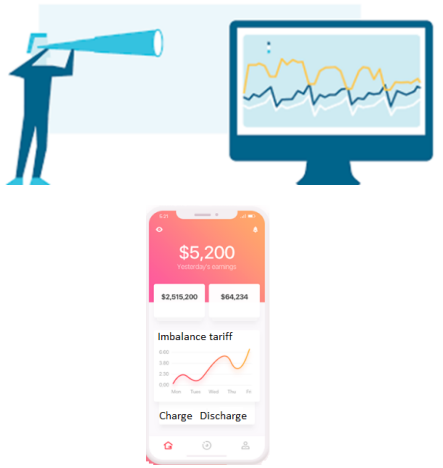
The Real-Time Price concept entails two evolutions

Part I - Evolution of the imbalance price publications

Started in 2023, ongoing preparation of // run

The current imbalance tariff is only **known at the end of the ISP***. **Real-time calculations** of the imbalance tariff are published on a one minute basis **during the ISP**, but these publications **do not reflect the expected evolution of the system** until the end of the ISP or over the upcoming ISP's. In particular, these publications **do not anticipate BRPs' implicit reaction** over the ISP.

In the future, a **forecast** of the imbalance tariff should be made available **before the beginning of the ISP** and be updated **within the ISP**, so that the maximum flexibility can be engaged in the system in an efficient and safe way. To do so, this forecast needs a.o. to take BRPs' expected implicit reaction into account



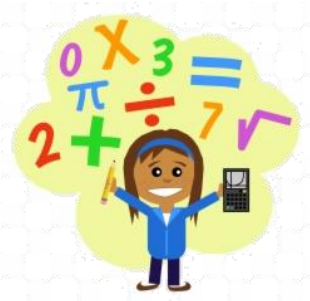
* Imbalance Settlement Period (currently equal to 15')

Part II - Evolutions of the imbalance price formula

Start in 2024

The current imbalance tariff reflects the **cost of the** (marginal) **activation of FRR** in the direction that helps solving the average system imbalance observed over the ISP. This comes with lots of non-convexities and is sometimes unrepresentative of the RT value of energy.

In the future, the imbalance tariff should aim at **reflecting** in the best possible way and at any moment **the RT value of energy.**



Part 1 – Evolution of the imbalance price publications

Real-Time Price – parallel run phase 1

What ? Publication of an imbalance price forecast with a confidence indicator

- 1 or 2 minutes before the quarter-hour
- Confidence indicator indicates how sure Elia is about the forecast
- Current target is to have an error of less than 50€/MWh for 80% of the forecasts with a “high” confidence

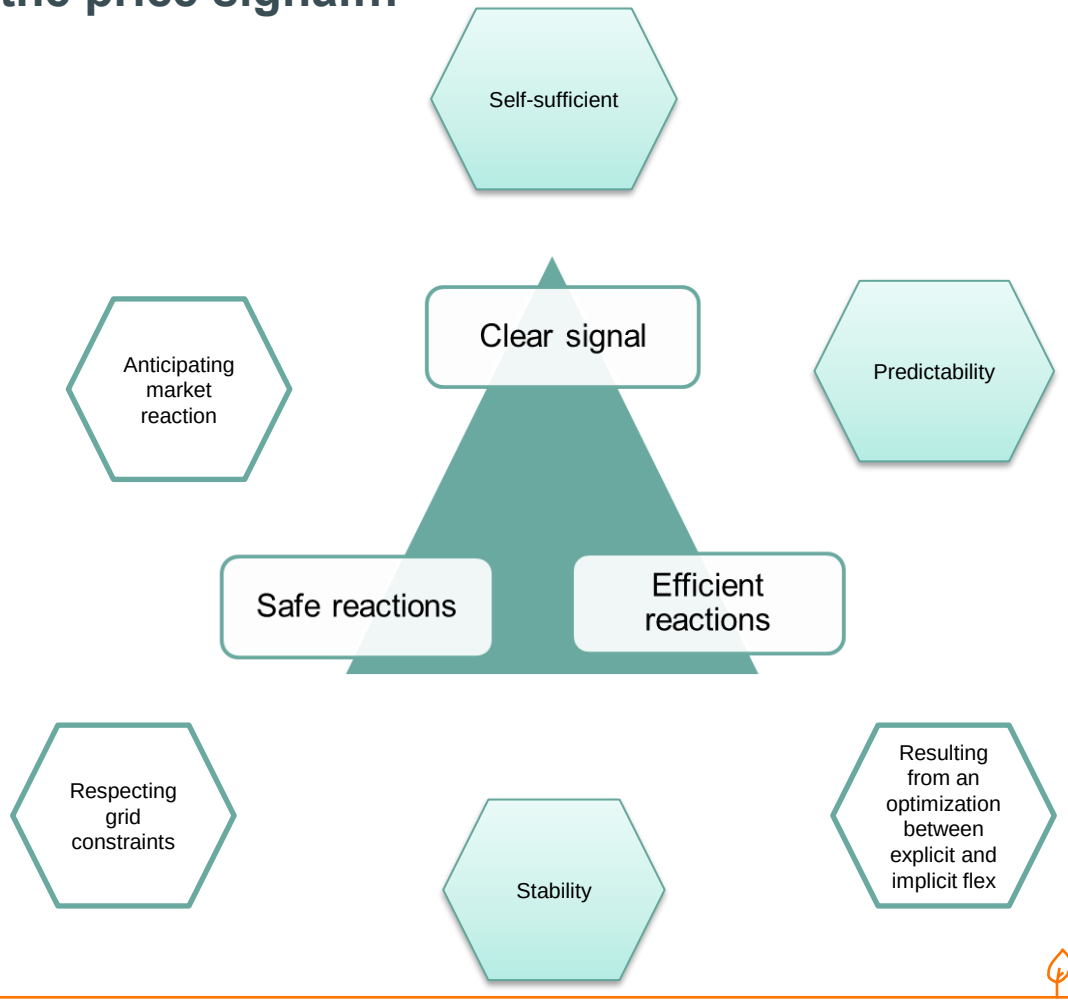
When ? September – October 24

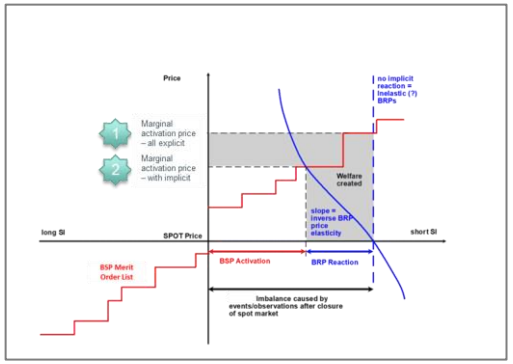
How ? Information is publicly accessible via API

***Disclaimer**: The publication will be done as a best effort; we cannot guarantee the forecast availability and quality at all time.*

Part 2 – Evolution of the imbalance price formula

A new Imbalance Price formula is required to ensure the stability, predictability and representativity of the price signal…





… and hence to ensure an affordable energy transition, benefiting from the advantages brought by the efficient application of a decentral balancing model

Incentive BRP Faster Settlement

- The current settlement timeline for BRPs is long. Within the incentive Elia proposed a **reduction in settlement time, reducing financial exposure and uncertainty for BRPs, as well as reducing financial guarantees.**
- The **invoicing time will be adjusted from M+35 WD to M+11 WD**, for delivery month M.
- This will happen **based on provisional allocations**.
- **The formulas** for the financial guarantees will be **updated to better reflect market conditions**.
- The proposed modifications leads to a **reduction of 11% in financial guarantees**.
- Market parties are kindly requested to submit their feedback on the proposed scenarios via the public consultation, from 30/08 until 27/09 included.

Thank you.