

Plenary meeting of the Elia Users' Group Wednesday, September 13



Agenda



1. Approval of reports 7 March and 5 May

- 2. Project Grid User flex for congestion management
- Adequacy & Flexibility study summary & stakeholder feedback
- 4. Consumer Centricity
- 5. Need for flexibility participation in market

5.1. Participation of flexible assets in market: use cases & solutions

5.2. For discussion: proposal for recommendation for Users' Group

- 6. Feedback Working Groups
 - 6.1. WG Belgian Grid
 - 6.2. WG Balancing
 - 6.3. WG Adequacy
 - 6.4. WG SO&EMD (incl. TF PEZ)

7. Miscellaneous

- 7.1. Stakeholder survey
- 7.2. Data 2024
- 7.3. Next plenary meeting 19 Dec. 16:15h 18h



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Grid User Flexibility for Congestion Management (GUFlex4CM)

Users Group Introduction – 13/09/2023

13.09.2023 | A. Weynants, J. Sprooten, S. Stas, K. Sleurs



Agenda

- 1. Context
- 2. Project Objectives
- 3. Overarching Principles
- 4. Project Roadmap





1. Context



The decarbonization of our society implies the electrification of fossil-energized processes and the integration of renewables





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Impact of electrification on electrical demand...





2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035

Electrolysers and power-to-heat are an output of the economic dispatch model

...and on supply (vRES, BESS, etc)

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ELECTRIFICATION VS. SYSTEM ADEQUACY



Newly electrified processes could deliver important benefits if operated in a flexible manner



- In our recent Adequacy & Flexibility study, ca. 70% of newly electrified processes were assumed to be flexible at times of scarcity
- Resulting in an important reduction of the need for installing costly dispatchable backup capacities



Flexible grid connections can provide a win-win solution for the grid user and for society



Grid hosting capacity







Flexible grid connections can provide a win-win solution for the grid user and for society

Two important trade-offs for infrastructure development:

What?

Grid reinforcement: investing in grid infrastructure to offer "permanent" connection capacity to the grid after completion of required grid reinforcements "non-wire solutions", considering for example the (long-term) use of flexibility solutions to avoid or reduce the "need for copper".

When?

Leading investment, which can lead to stranded assets, grid oversizing and a suboptimal resource allocation at the expense of other projects



Lagging investment, which may arrive too late and lead to economic losses, missed opportunities and undershooting climate ambitions.

Flexible grid connections can support these trade-offs and may be proposed as a win-win solution for the grid user and for society:

1 On the one hand, it enables to maximize usage of grid infrastructure and hence find the optimal trade-off for society, applying the "efficiency-first" principle.

On the other hand, it enables a faster connection for the client while keeping the stranded-assets risk under control;

Flexibility – crucial for grid operation and system management



- With the increased importance of distributed generation, the electrification of the heat and mobility sectors and the ultimate goal of a net-zero society, consumers will play a key role in the energy sector of tomorrow.
- The energy transition will need to fully unlock their flexibility potential. Such a transformation is also supported by the '**Clean Energy for All Europeans**' package.

Consumer driven flexibility

- In 2021, Elia published a vision paper ('Towards a Consumer-Centric System') to encourage and enable end users to fully exploit their technological investments, optimize their electricity bills and contribute to system balance.
- First movers and major contributors are expected to be focused on 'vehicle-to-grid' (V2G), demand shifting, small-scale batteries at household level, etc.
- In 2023, Elia published its most recent Adequacy & Flexibility study, highlighting the important role of unlocking flexibility at consumer side for safeguarding Belgian Security of Supply.

SO driven flexibility

- Flexible Access concepts (to be used for congestion management) were introduced in the Federal Grid Code for production units.
- End 2017, the consulted **iCAROS** design included a review of the redispatching product as one of the costly remedial actions used to cope with non-structural congestion detected after the DA market.
 - Redispatching bids are mandatory at cost-based prices for production and storage units taking into account technical constraints
 - Redispatching bids are voluntary for demand

https://www.elia.be/-/media/project/elia/elia-site/electricity-market-and-system---document-library/outage-planning-and-scheduling-agents/2018/2018-design-note-icaros-future-scheduling--redispatching.pdf



2. Project Objectives





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Project objectives (2/2)

Elia Group

Objective 1: Define the strategy with regards to the consideration of Grid User flexibility for congestion management

- Clarifying the **approach** in the interest of society concerning the consideration of **flexibility** of Grid Users for congestion management in:
 - Grid Planning
 - Connection Contracting
 - Operational Planning (outage planning of Elia assets) and Grid Operation
- <u>Coherently with current & possible evolutions</u> of the participation of GU flexibility in markets (cf. CCMD developed strategy)

Objective 2: Develop solutions for congestion management based on demand, storage and generation flexibility of existing and new Grid Users

- Establishing technical and contractual solutions to ensure implementation of flexibility in grid connection, grid planning and grid operation:
 - A short-term pragmatic solution to unlock flexibility (quick-wins)
 - As well a long-term well integrated solution
- Covering the 3 types of grid users (generation, demand and storage) as well as T<u>SO, DSO and mixed GU</u> (i.e. demand users with storage or generation embedded behind the meter)

Objective 3: Develop solutions to quantify means available and expected usage for grid planning & operation

- Developing decision making processes & criteria fully taking into account GU flexibility (i.e. TOTEXbased decision making). This includes the validation of Grid Operation criteria and Grid Development policies aligned with the legislative context.
- Developing the capability to:
- Make projections of the flexibility means needed for congestion management
- Perform LT prospective studies quantifying the expected benefit of TOTEX-based decision making in considered future scenario's (Expected policies, FitFor55, ReEU, eProsumers...)



3. Overarching Principles



High Level Goals & Principles





What we would like to achieve



We want to build a vision supported by the energy community and to develop solutions that integrate Grid User Flexibility for Congestion management from LT System Planning to RT Operations

LT Planning & Contracting	Operational Planning	C2RT & RT Operations

□ Our vision is to be stress-tested with practical Use Cases



4. Project Roadmap



Balancing incentives 2024 Version CREG consultation (ended 28/08/2023)



L'incitant a trois objectifs principaux:

- premièrement, assurer la transparence des activations des installations raccordées avec accès flexible en cas de congestions;
- deuxièmement, développer une vision et une méthodologie pour intégrer la flexibilité dans les analyses coûtsbénéfices supportant les variantes de raccordement proposées aux utilisateurs de réseau dans le cadre des études d'orientation et de détail ;
- 3. troisièmement, développer une vision et une roadmap intégrant le rôle des raccordements avec accès flexible dans les solutions de développement du réseau.

Q1 – Q2 2024

Organisation d'un ou plusieurs workshops avec les acteurs du marché et d'autres parties prenantes pour présenter et récolter les attentes des utilisateurs de réseau [...]

30 novembre 2024

Proposition vers le régulateur sur les points précédents, prenant en compte les commentaires reçus lors de la consultation publique.

15 septembre 2024

Lancement d'une consultation des utilisateurs du réseau sur les résultats des workshop précités et sur les éléments du cadre régulatoire étant identifiés comme nécessitant une modification afin d'atteindre les objectifs poursuivis.

31 décembre 2024

- la publication de l'activation historique pour les trois premiers trimestres de 2024 de la flexibilité pour la gestion des congestions et l'organisation d'une séance d'information publique;
- la publication du rapport final sur les objectifs 2 et 3.

High-level project roadmap









Questions ?





Thank you.



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ADEQUACY AND FLEXIBILITY STUDY FOR BELGIUM

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This study is based on the requirements set in the electricity law and uses the expertise that Elia has developed in its past Adequacy and Flexibility studies







Report content (470 pages)

- Executive summary
- Introduction
- Methodology
- Scenarios and data
- Adequacy needs assessment
- Economic viability assessment
- Short term flexibility assessment
- Economic and dispatch assessment
- Appendix on the methodology
- Appendix on the scenarios & data



The study is available online and was presented end of June 2023 to stakeholders

https://elia.group/ADEQFLEX-EN



This study covers **3** main topics related to adequacy, flexibility and economics



The scenarios used in this study are aligned with the most recent figures and ambitions of Belgium and other countries.

In addition, a large amount of sensitivities were investigated on European assumptions, Belgian assumptions, the grid and economics.

We looked **10 years ahead**, covering the most important events that will



affect the electricity system in the future, simulating **28 COUNTRIES**





Years are simulated from 1 September Y to 31 August Y+1, hence 2025 corresponds to 1 September 2025 until 31 August 2026.





* FLEX LTO already agreed upon between the Belgian State and Engie in 2025-26, decreases the need by 1700 MW in 2025-26



Equal attention must be paid to short-, medium- and long-term measures



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State of Play Consumer Centric Market Design

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David Zenner – Head of Customers

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On-boarding the consumer in our roadmap to net zero is the key to unleash the energy transition





Consumer Centric Market Design to make flexibility seamless

Two key features delivering major benefits

A decentralized exchange of between consumers and many other parties, **on & behind the meter "Exchange of energy blocks"** A real-time market price to reveal the true value of flexibility to consumers





From competition for the meter... to competition behind the meter

Lowering barriers to valorize flexibility


Opportunities for grid users



A tool to split the flexible from the inflexible load, striking a balance between price opportunities and risks



Example

When the RTP is high (ex. 11:45-12:00), the end-consumer is able to sell electricity to market (V2G) and generate a revenue. He can safely consume his residual load at a fixed cost.





How can a consumer benefit from this upgraded market features?



- ✓ optimize his energy profile
- valorize his flexibility
- ✓ define his **tailor-made solution**



Valorization of your own renewable production

Sharing your solar energy between different access points or with other grid users (eg. residential area) through an energy community

Valorization of your employee's EV flexibility in balancing services

Steer your employee's EV to help Elia balance the grid without impacting your supplier or your employees' comfort





Contract a dedicated supplier for your battery

Keep your current supply contract for your baseload and optimize your flexible assets through a new supply contract sensitive to market prices

Let investors build a wind park on your site without affecting your supply contract

Investors can appoint their own supplier and avoid financial risk on your own supply contract by splitting responsibilities



New Services available for you by the end of the year...





Invest only once to supply several sites!

- ✓ Dimension your own production units on one site to supply several sites
- ✓ Optimize the available capacity of your connection point



New Services available for you by the end of the year...



Evolution of the imbalance price

Supporting the paradigm shift with a real-time price...

Flexible assets need a **clear signal** to determine the right moment to engage flexibility :

Explicit activation by System Operator \checkmark

"Volume based" Flexibility



barriers, it is important to also allow another more accessible way to participate in the system in order to capture the whole flexibility available

✓ Implicit financial incentive, or Real-Time Price



"Price based" **Flexibility**



Elia is therefore engaged in an evolution of the **imbalance price** in order to trigger safe and efficient reactions from the remaining flexibility to help **balance** the system.

Explicit participation in the system comes with **technical**

and administrative constraints that not all assets can

afford *→* while working on the **reduction of these**







... an imbalance price evolving from a penalty to a clear incentive for all BRPs

The current imbalance tariff is a *penalty* for the *imbalances* (in the wrong direction) of BRPs who have *the legal and physical obligation to be balanced* (or, in some conditions**, help the system) in real-time



The future imbalance tariff should provide a clear **incentive** to **all BRPs** to help balance the system in real-time.

To do so, the future imbalance tariff should evolve towards a **self-sufficient** signal, it should be **known as soon as possible** and it should aim at **using the flexibility available in the system in the best possible way***.



Inefficient system signals – 14 August 2023





A good Real Time Price is a *clear* signal incentivizing *safe* and *efficient* market reactions



More during the WG CCMD – 27 September 2023





Product

Individuals who wish to access services from Elia Group...



for Elia Group services



Services



MPx... a way to expose your flexible assets directly on electricity markets





Letting you handle any power transaction by facilitating BRP, financial and trading services

MPX is building on the possibilities enabled by the Consumer Centric Market Design



Contracting different BRPs by making use of "Exchange of energy blocks" Give the right incentive and **benefit from reactive balancing** (real-time price)



MPx allows to expose flexible assets (via the "multiple BRP" service) on the electricity markets and to make a full optimization for these assets making use of the real-time price



Key hurdles* for participation to the power exchanges today

FINANCIAL

- Current minimum financial guarantee required by Elia for the BRP status not fit for small players
- Imbalance settlement: open positions during long periods of time
- Current collateral and fee structure fit to bigger market players and
- Current clearing conditions fit to bigger market players

OPERATIONAL

- Operational setup : Implementation of BRP messaging systems and communication protocols
- Operational obligations: Operational complexity of BRP processes (nominations, 24/7 operational service etc.)
- Operational setup: onboarding and setup of trading systems
- High level of market knowledge required

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EXCITING TIMES

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Need for flexibility participation in market



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WG BAL 16/5: system indicators showing significant incompressibility on 9/4



- 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 down to -400€/MWh during several QHs

9/4 exhibits a significant case of incompressibility



WG BAL 16/5: Day-Ahead solar forecast error as key driver on 9/4



Solar forecast : From DA \rightarrow real-time

- 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 on this day. Hardly any wind and limited error (also limiting downwards regulation potential from wind)
- Hardly any large gas units were running in the afternoon.
 Nuclear infeed at about 3,5 GW.

WG BAL 16/5: a few examples indicating incompressibility







Presentation title 59



WG BAL 16/5: also neighboring countries were confronted with a similar situation on 9/4

- Day-Ahead Market Coupling resulted in Belgium being in import while neighbouring countries were in export.
- In real-time the case was nevertheless further exacerbated by the fact that also in neighbouring countries a similar situation occurred.
- On the intraday market and in real-time it appeared difficult to evacuate the surplus volumes.
- In line with how it has been designed now, the alpha component was about zero during the situation, hence not providing increased incentives via real-time price signals.





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Incompressibility: future outlook and solution

- Estimated increase of 880 MWp of PV p.a. until 2034
- Large share of residential PV which –today- does not react to price signals and hence continues to feed in even in case of excess energy in the system
- Cumulative capacity of 14 GW of PV expected by 2030 (exceeding typical summer load of Belgium)
- Similar evolutions abroad limit the possibility to export excess energy

FIGURE 3-54 — ASSUMED EVOLUTION OF THE INSTALLED PHOTOVOLTAICS CAPACITY IN THE CENTRAL SCENARIO AND SENSITIVITIES FOR BELGIUM

Further integration of PV will require flexible demand to consume more during periods of high PV infeed and PV to react in a flexible way in case of remaining excess energy in the system.





Active participation of flexible assets in the market is important for SoS and balancing the system





Adequacy & Flexibility study 2024-34 62

Active participation of flexible assets in the market is important for SoS elia and balancing the system



Flexibility needs should be covered as much as possible by the market and only the residual imbalances are to be covered by Elia.



Assumptions on flexible assets in the ADFLEX study

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Need for flexible assets to participate in market



- <u>The further integration of PV and wind (intermittent renewables) in the system will require:</u>
 - Flexible demand to consume 'more' during periods of high solar *(intermittent renewable)* infeed (and vice versa, to consume less in case of low renewables infeed) by reacting on market (price) signals
 - PV and wind *(intermittent renewables)* to react in a flexible way on market price signals (e.g. have incentive to reduce output in case of negative market prices)

Participation of flexible assets (EV, HP, PV, batteries,...) in the market requires (a.o.):

- Digital meter, data exchange/communication and standardization
- Improved market mechanisms (CCMD) and price signals to incentivize flexible assets to react
- Flexible assets need to have technical capabilities to react on the basis of market-based signals
- There is a need for having new flexible assets 'flex ready' from start
 - Given rapid uptake and long lifetime (avoiding expensive ex-post retrofits)
 - Benefit for society, system and asset owners
 - E.g. PV owners that react on negative market prices could receive higher remuneration for injected energy



Agenda

- Participation of flexible assets in market: use cases & solutions
- For discussion: proposal for recommendation from Users Group





For discussion: opportunity for recommendation endorsed by Users Group

Goal of such recommendation would be to accelerate the development of flexibility to support the next steps in the energy transition by removing important barriers

Such recommendation could a.o. take following points into consideration:

- 1. <u>Importance to foster participation of flexible assets</u>, like electric vehicles, heat pumps, batteries, solar panels,... <u>in the market</u> to facilitate the further integration of renewable energy (and e.g. cope with issues of incompressibility)
- 2. Need for <u>newly installed flexible assets to be 'flex ready' (as of a certain date)</u>, i.e. technically capable to react on market-based signals (e.g. enable reaction of PV installations to negative market prices).
- 3. Need <u>implement the CCMD market design</u> that enable <u>flexible assets to participate in the markets</u> and to valorize their flexibility in an easy way
- 4. Other relevant points?



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Highlights WG Belgian Grid



Since last plenary meeting: two meetings: 17/05 & 05/09

Main topics

- **1.** Tariff proposal 2024-2027: results of public consultation
- 2. Energy View Point
- **3. Public consultation** on concept note on **connections with flexible access** to the federal transmission grid
- 4. Access contract: main modifications
- 5. Connection contract: main modifications
- **6.** Incentives:
 - Hosting capacity maps
 - MVAr
 - Cost benefit analysis requirements for generators applicable on existing and new generating units

Next (ad hoc) meetings:

- Date TBD call for feedback regulations
- Date TBD Tariffs 2024-2027
- Last WG Belgian Grid Thu. 7/12 2pm-5pm







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Feedback WG Balancing



Feedback WG Balancing 29/06 (1)

- EU & BE Balancing Program Update

- Elia reminded the timing of the different Public Consultations (T&C mFRR, T&C BRP, Balancing Rules)
- Elia explains how it will need to adapt its FRR activation strategy after connection to the EU MARI platform, in line with the timings of the EU platform, its activation optimization function and availability of ATCs.
 - Elia will mainly use Scheduled Activation for mFRR, determining its mFRR demand on the basis of best estimate of SI for the next QH to bring ACE close to zero and/or relieve aFRR

- T&C BRP / Imbalance Price

Elia reminded the general timing of the amendment of the T&C BRP in the context of connection to MARI and PICASSO, and
presented the proposed imbalance price formula compatible with MARI/PICASSO

- aFRR Evolutions & Connection to PICASSO

- Elia reminded that the objective is to connect to PICASSO in 06/2024 before the legal deadline (07/2024)
 - A workshop on mitigation measures for the connection to Picasso will be organized.
- Elia reminded the various design evolutions and timings foreseen for aFRR and will organize a workshop to discuss them


WG Balancing 29/06 (2)



- Winter Plan Balancing

- Elia proposed to introduce a more robust, general framework to ensure the availability of sufficient mFRR in case of tight market conditions or unavailability (risk) of sharing agreements by neighboring TSOs. The measures are based on technical triggers (Critical Grid Situation communicated by RCC).
- Follow-up: PC from 18/08 to 15/09 & submission to CREG on 29/09, entry into force foreseen on 01/11

Incentive on DFD

- Elia presented the DfD analysis and mitigation measures to prevent them, based on a decision tree
- Follow-up: feedback expected from MPs by September & consultation of a draft report by 01/09. Window for POC tests from October to December, and final report to be submitted to CREG by 22/12

CRI filtering for aFRR

- Elia explained the filtering process for aFRR which aims to limit the filtered volumes of aFRR

- AOB – Incompressibility Issues

- Elia explained the procedure, based on the existing legal framework, to manage situations of incompressibility
- Follow-up: a mail towards WG BAL members was sent on 05/07 with a document explaining the high incompressibility risk procedure, taking place from 06/07 to 21/09



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Feedback WG Adequacy

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WG Adequacy – Overview of last Meetings





Main Topics from the Last Meetings







Public consultation on the scenarios and data to be used for the Y-4 2028-2029 and Y-1 2025-2026 CRM auctions

Elia presented and answered the feedback received from external parties



Presentations of several studies regarding the parameters of the CRM auctions

A study by Climact on the **Total Electricity Demand Projection**

A study by E-cube on the **strike price and market response** for the upcoming CRM auctions

Two other studies are ongoing:

- The Cost of Capacity Study by Entras is underway
- Elia has launched a study about the assessment of net balancing revenues



The Cabinet of the Minister of Energy introduced additional changes to the CRM / SoS framework:

The introduction of a Y-2 auction in combination and further improvements of the 200h rule

A change to **Art 4bis** of the Electricity Law which governs the process of capacities leaving the market



Renotification of the CRM

Renotification is ongoing; the renotification **amends the initial approval of the CRM by the EC** to include, amongst others, the nuclear prolongation and the design evolutions discussed in the WG.

Approval of **DSR payback** exemption is highly unlikely.



- Following the publication of the CRM Functioning Rules, a number of design improvements will be discussed in the Working Group Adequacy
 - Elia presented a timeline for the discussion
 - A first design workshop took place with interested parties to deep-dive on a number of evolutions Elia is proposing to the Availability Monitoring and the Payback Obligation

Current scope of design discussions per topic

Availability Monitoring:

- Clarification on current design
- Determination of SLA hours
- Proven/Unproven Availability for Daily Schedule CMUs
- Number of activations per day

Payback obligation:

- Clarification on application of DSM exemption per DP
- Potential improvements to the indexation mechanism and the calibrated strike price

Prequalification:

- Timing for Additional to Existing capacity

Cross-border CRM:

- Process for participation of foreign CMU
- Cross border CRM design (pre-auction, light prequalification, etc.)

This list represent the current scope of the proposed discussions, Elia does not exclude that additional topics are brought to the Working Group







- Based on a EU decree, every CRM should allow for Cross-Border participation
 - Elia is working on the Cross-Border CRM with neighbouring countries – France, Germany & the Netherlands
 - First Cross-Border participation in the Belgian CRM in Delivery Period 2025-26
 - The proposed timeline is as displayed



- Launch of 2023 CRM Auction Operations
 - The prequalification process for the 2023 CRM auction is running it's course
 - More information, documents & template are on the CRM page Elia's website



- In June, the CRM secondary market launched
 - Going forward, market parties are able to notify trades to Elia using the new platform.





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- 6. Feedback Working Groups
 - 6.1. WG Belgian Grid
 - 6.2. WG Balancing
 - 6.3. WG Adequacy

6.4. WG SO&EMD (incl. TF PEZ)

7. Miscellaneous

- 7.1. Stakeholder survey
- 7.2. Data 2024
- **7.3.** Next plenary meeting 19 Dec. 16:15h 18h





Highlights WG EMD-SO (Q3 2023)

European Market Design

Core Intraday Capacity Calculation

- 17th of July dedicated workshop organized about summer consultation of ACER on the 2nd IDCCM amendment (escalation by Core NRAs to ACER)
- Shared insights of Elia and discussion held with CREG and Belgian market parties on relevant point of attention from a Belgian perspective

Calendar

- Next WG EMD-SO meeting at 17th of October
- > Agenda topics (tentative)
 - Winter outlook, summer review
 - Emergency & Restoration
 - Post Brexit Market Coupling with UK
 - Core Intraday Capacity Calculation

Task Force Princess Elisabeth Zone (PEZ)



Summary of technical aspects presented during TF/workshops

Agenda



- **1.** Approval of reports 7 March and 5 May
- 2. Project Grid User flex for congestion management
- Adequacy & Flexibility study summary & stakeholder feedback
- 4. Consumer Centricity
- 5. Need for flexibility participation in market

5.1. Participation of flexible assets in market: use cases & solutions

5.2. For discussion: proposal for recommendation for Users' Group

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Plenary meetings 2024

Friday, **1 March** – PM

Monday, 10 June – PM

Monday, 23 September – PM

Monday, **25 November** – PM

