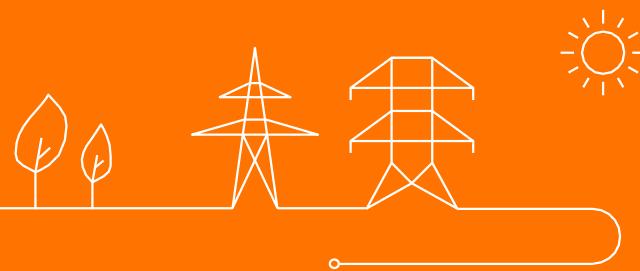


Users' Group

Plenary meeting of the Elia Users' Group

Friday, March 1



Agenda

- 1. Approval report 19/12/2023**
- 2. Status large infrastructure projects**
- 3. Towards Energy & Grid Solutions 2027**
- 4. Needs for flexibility participation in market**

Proposals for recommendation:

 - * Flex readiness E-assets
 - * Submetering requirements for flexibility
- 5. Feedback working groups***
 - 5.1. WG Belgian Grid
 - 5.2. WG Balancing
 - 5.3. WG Adequacy
 - 5.4. WG EMD-SO (incl. TF PEZ)
- 6. Miscellaneous**
 - 6.1. Next meeting:

** no WG CCMD occurred between the Plenary meeting of December and now*



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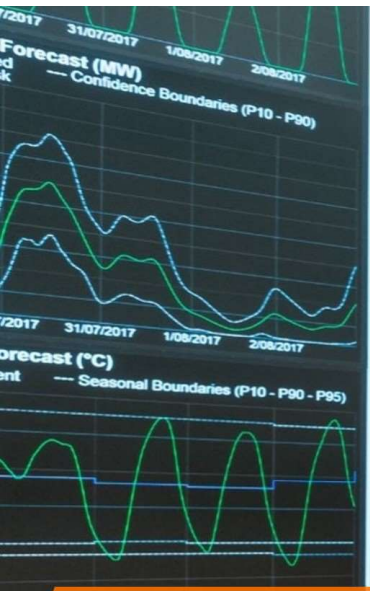
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Item	Value	Unit
COO ENERGY SUP 1	6	
COO ENERGY SUP 2	18	
PLATE TURBINE	49 %	1143 MWh
PLATE PUMP	34 %	950 MWh
FILT ACE	-10 %	-88 MWh
NRV	63 %	768 MWh
SI		2 MW
R2		-190 MW
ID Bid Level		162 MW
		-45 MW
		-145 MW



Ventilus & Boucle du Hainaut

Status grote infrastructuurprojecten

1/3/2024 | Nicolas Beck, Michel Antoine, Stijn De Sutter



Ventilus & Boucle du Hainaut

Versterking van de ruggengraat 380kV noodzakelijk voor de energietransitie

- Aansluiting en integratie van nieuwe energiebronnen zoals **off- en onshore hernieuwbare energie**
- Robuust net voor betrouwbare toegang in het kader elektrificatie
- Toegang tot duurzame en betaalbare energie met **meer internationale stromen**



Ventilus – GRUP



Overzicht Ventilus verbinding

82 km (21 km nieuw bovengronds + 10 km nieuw ondergronds)

-  Aanlanding PEI – Inlusing Stevin: ± 10 km ondergronds
-  Herbenutting bovengronds 150kV tracé: ± 5 km
-  Toevoegen 380kV geleiders aan bestaande 150 kV lijn: ± 14 km
-  Nieuw ondergrondse kabel (4 circuits): ± 8 km
-  Nieuwe bovengrondse lijn langs E403: ± 17 km
-  Nieuw ondergrondse kabel (4 circuits): ± 2 km
-  Nieuwe bovengrondse lijn naar HS Izegem: ± 3,5 km
-  Versterking bestaande 380 kV lijn (HTLS): ± 22,5 km

Nieuwe hoogspanningstations

- Gezelle 380 kV– Conversiestation Herdersbrug – Izegem 380 kV

Daarnaast ook vervanging 150kV hoogspanningslijnen Brugge-Slijkens en Brugge-Blauwe Toren door kabelverbindingen

Projectatlas

- Visuele voorstelling van het trace staat op de website van Elia via
- <https://www.elia.be/nl/infrastructuur-en-projecten/infrastructuurprojecten/ventilus>



Overzicht Procedure

Timing GRUP

- ✓ Beslissing voorkeurstracé: VR 31 maart 2023
- ✓ Plenaire vergadering: 22 mei 2023
- ✓ Ontwerp GRUP: 7 juli 2023
- ✓ Openbaar onderzoek: 29 aug – 27 okt 2023
- ✓ Principiële goedkeuring: 26 januari 2024
- 🕒 Advies Raad van State: februari 2024
- 🕒 Definitieve vaststelling: maart 2024

Vandaag



GRUP - Lead Departement Omgeving

01

Start- en procesnota

De Vlaamse Regering keurt eind maart 2019 de start- en procesnota goed met de eerste opties voor het plan.

02



Publieke raadpleging & adviesronde

van 29 april tot 27 juni 2019 geven het publiek en de adviesinstanties opmerkingen of suggesties op de start- en procesnota.

03

Scopingnota

Op basis van de inbreng uit de publieke raadpleging en adviesronde wordt de startnota verfijnd tot de scopingnota.

04

Voorontwerp-GRUP

De alternatieven worden verder onderzocht naar hun ruimtelijke en andere effecten en naar de doelstellingen van het plan.

05



Ontwerp-GRUP en voorlopige vaststelling

Na een plenaire vergadering met adviesinstanties wordt het ontwerp-GRUP (en de effectbeoordelingen) voorlopig vastgesteld door de Vlaamse Regering

07

Definitieve vaststelling GRUP

Na verwerking van de opmerkingen uit het openbaar onderzoek en een advies van de Raad van State wordt het GRUP definitief vastgesteld door de Vlaamse Regering.



Vergunning - Lead Elia

08



Project-MER

Het project-MER wordt opgemaakt en aangemeld bij de dienst MER. Deze beslist over de aanmelding ervan.

09

Omgevingsvergunningsaanvraag

De omgevingsvergunning wordt ingediend bij de Vlaamse Regering. Deze beslist over de ontvankelijkheid en volledigheid van de aanvraag.

10



Openbaar onderzoek en adviesronde

Het publiek en de adviesinstanties kunnen gedurende 60 dagen reageren op het project-MER en de omgevingsvergunningsaanvraag.

11

Goedkeuring project-MER

Na verwerking van de opmerkingen uit het openbaar onderzoek en een adviesronde keurt de dienst MER het project MER goed of af.

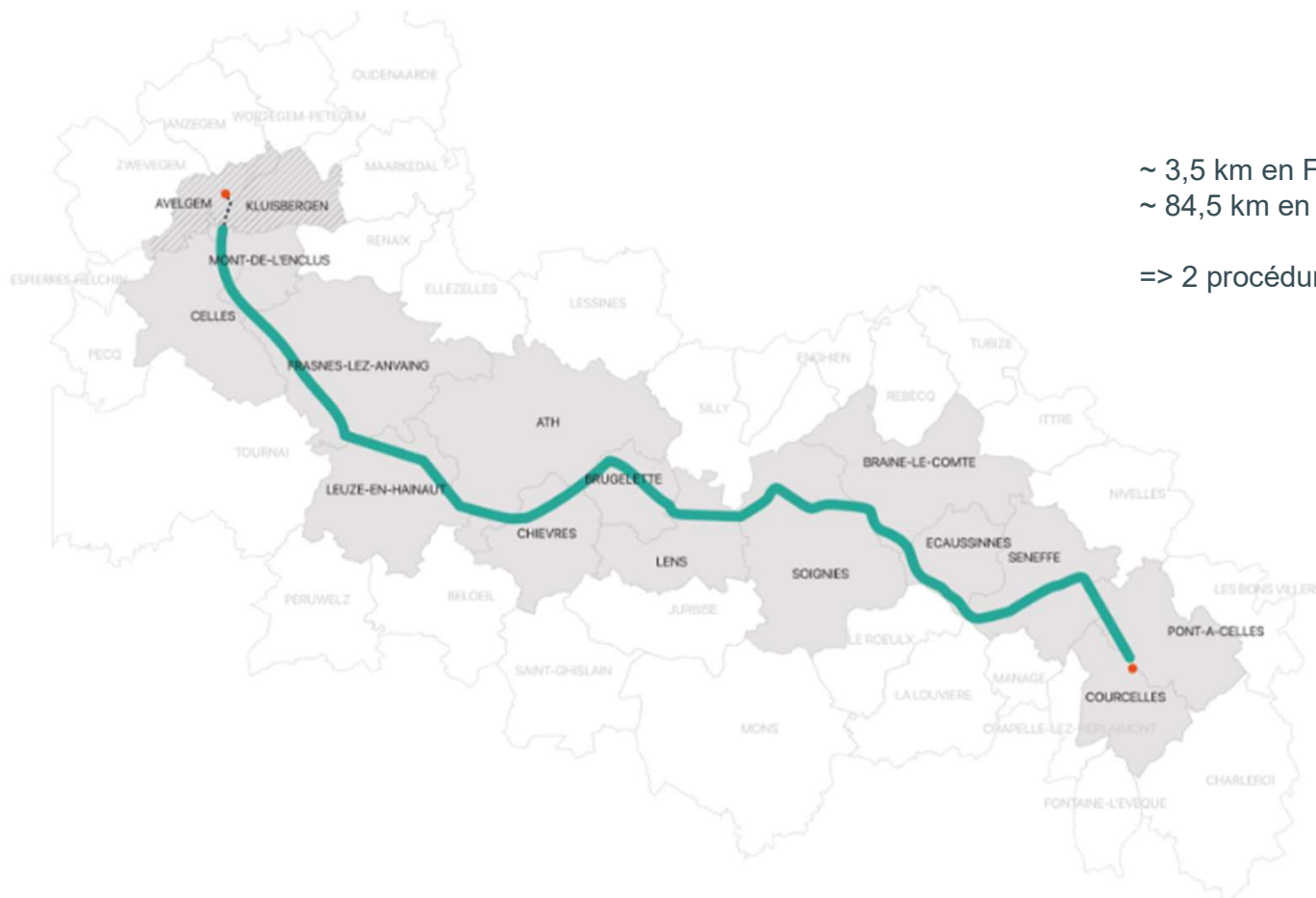
12



Goedkeuring omgevingsvergunningsaanvraag

De Vlaamse Regering beslist over de omgevingsvergunningsaanvraag.

Boucle du Hainaut



~ 3,5 km en Flandre
~ 84,5 km en Wallonie

=> 2 procédures d'autorisations

Overzicht procedure in Vlaanderen

Timing GRUP

- ✓ Start- en procesnota: juli 2023
- ✓ Publieke raadpleging: aug – okt 2023
- 🕒 Definitieve vaststelling: Q4 2025 ?

GRUP - Lead Departement Omgeving

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De Vlaamse Regering beslist over de omgevingsvergunningsaanvraag.

Procédure Boucle du Hainaut en Wallonie

Scenario tendering windmolenparken

PHASE 2. PROCÉDURE DE RÉVISION DU PLAN DE SECTEUR

Timing PdS

- ✓ Décision GW sur révision PdS: 19 juillet 2023
- ✓ RIE: novembre 2023 (phase 1), février 2024 (phase 2)
- 🕒 Adoption projet de plan: Q4 2024 ?
- 🕒 Adoption définitive du plan: Q4 2025 ?



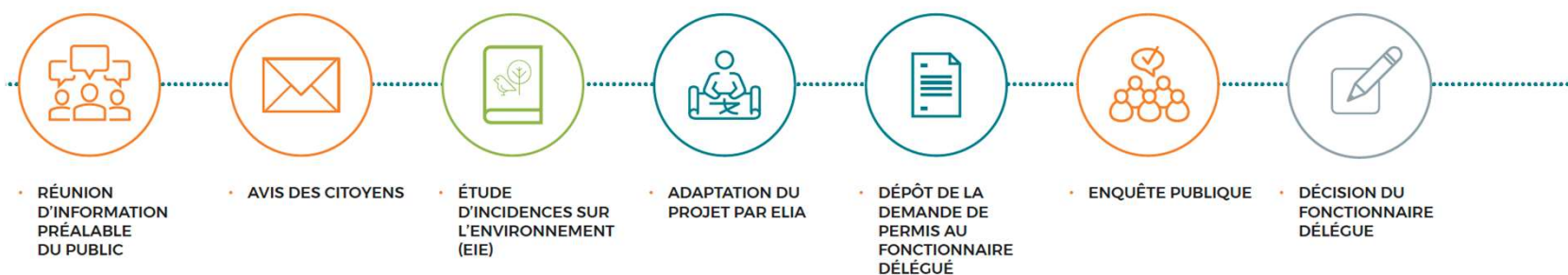
Aujourd'hui



Procédure Boucle du Hainaut en Wallonie

Scénario tendering windmolenparken

PHASE 3. PROCÉDURE DE DEMANDE DE PERMIS D'URBANISME



Community Relations

AVOID


- 


Avoid protected zones
- 


Avoid residential zones
- 


Upgrade or reuse existing infrastructure


REDUCE


- 

Visual integration of overhead lines and substations with vegetation
- 

Pylon types
- 

Group existing infrastructure
- 

Reforestation
- 

Architectural integration of the substations
- 

Bird markers, nesting boxes

OFFSET

- 

Community projects
- 

Financial compensation for owners
- 

Financial compensation for farmers

Thank you.

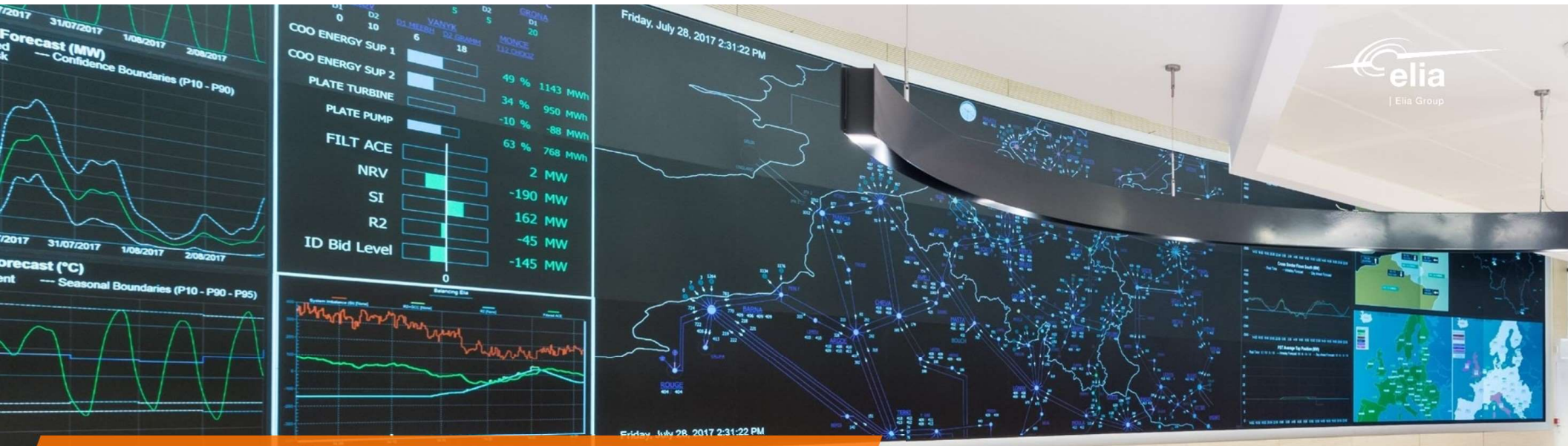


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Towards Energy & Grid solutions 2027

1/3/2024 | David Zenner, Jan Voet





Towards Energy & Grid Solutions 2027...

01.03.2024 | Brussels | CMS

Clear ambitions...




The North Sea Summit
Ostend, 24th of April 2023

2021



FIT FOR 55
Increased decarbonisation




-55%
in 2030 (compared with 1990)

2022



REPowerEU
More renewables



Accelerated expansion of renewable energy resources & infrastructure

2023



Green Deal Industrial Plan
More investments



Anchoring Europe's net zero industry

2023



North Sea Summit
More offshore development



Year	Capacity (GW)
TODAY	27
2030	120
2050	300

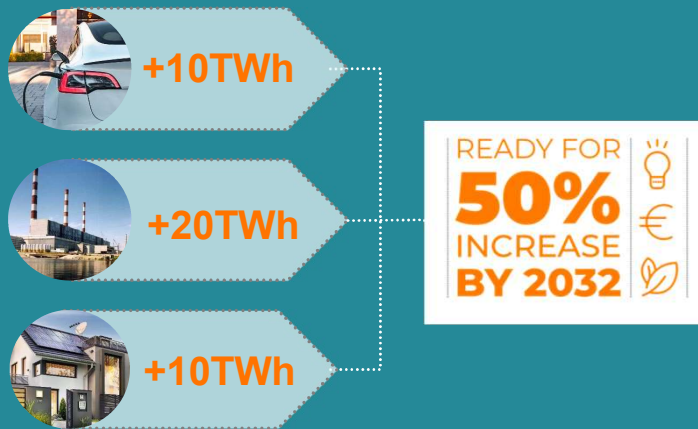
➔ Leading to a significant increase in expected electricity demand driven by electrification in industry, transport and heating

➔ Leading to an accelerated integration of renewable energy sources in Belgium

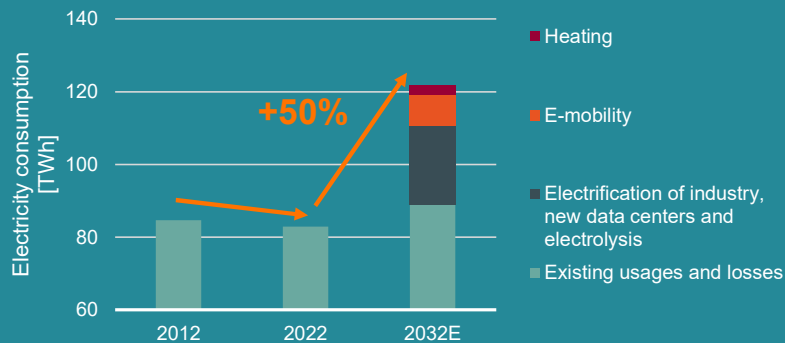
Consumption



Production



Expected electricity consumption in Belgium

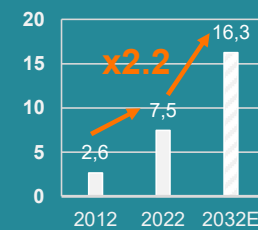


Solar PV



In 2032

Solar PV capacity in GW

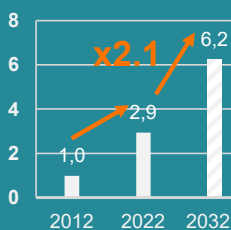


Onshore Wind



In 2032

Onshore wind capacity in GW

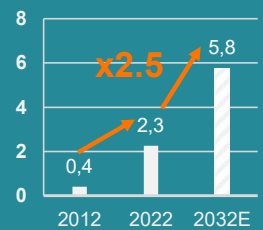


Offshore Wind



In 2032

Offshore wind capacity in GW



Academic Board Exchange Session 2023

Source: Central scenario Adequacy & flexibility study

Our Priorities

1



Grid Infrastructure

For an efficient and orderly energy transition, the grid needs to be ready on time



2



Adequacy

Ensure security of supply during the increase of electricity consumption and intermittent production sources



3



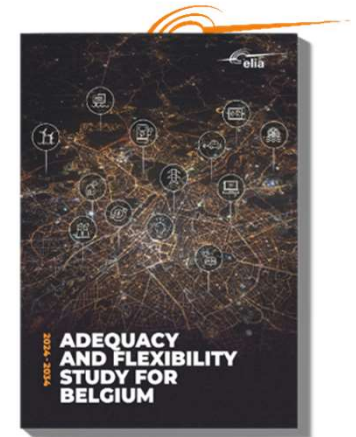
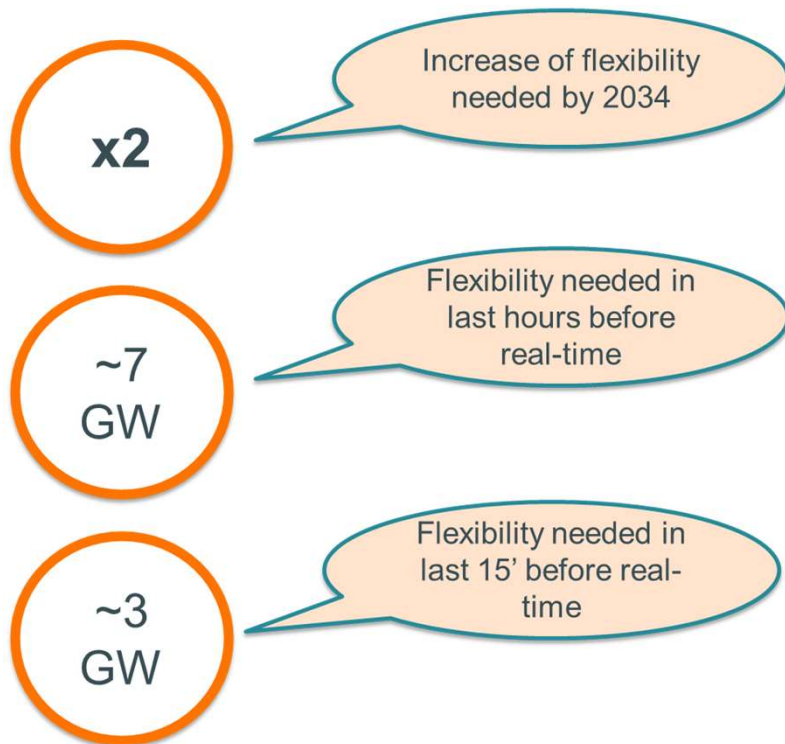
Flexibility

Ensure consumers and industry can valorize their flexibility and benefit from the energy transition



FOCUS TODAY

Flexibility outlook: ADFLEX 2023

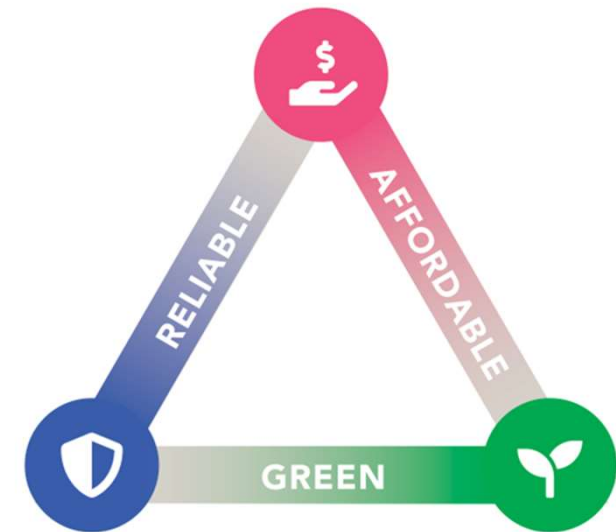


Sufficient flexibility means will be available in the system...

... the **challenge is to unlock this flexibility** (industrial flex, end-user flex such as electric vehicle, heat pumps, home batteries & solar panels,...). Development of downward flexibility will become increasingly important.

Flexibility challenges: affordability

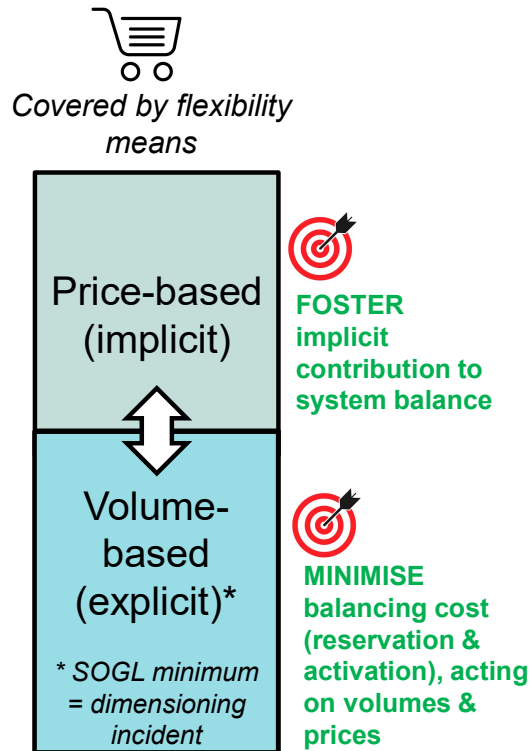
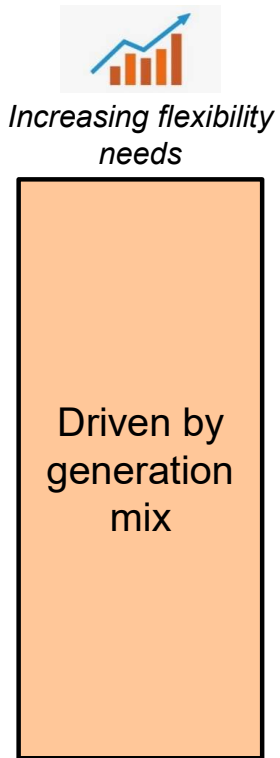
- The **energy transition** should not endanger the **reliability of the system** but also be **affordable for consumers**
- Elia will therefore strive for an **efficient system management**, with regards to both **energy solutions** and **grid solutions**



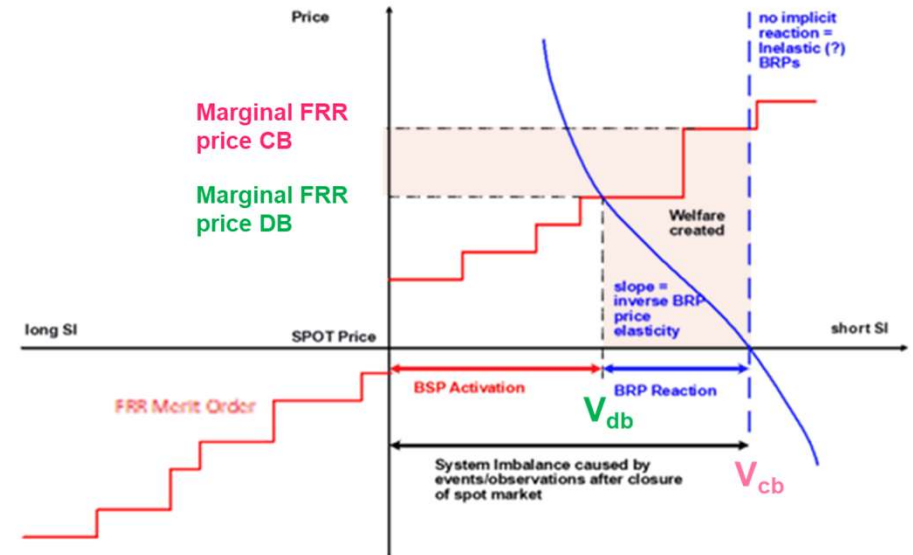
Towards Energy Solutions 2027...



Efficient balancing model combines Implicit and explicit flexibility



 Maximize welfare by using the most optimal mix of implicit and explicit





Energy Solutions 2024-2027: Initiatives to minimize balancing costs

Flexibility Needs and Means: efficient reserves dimensioning



2024

2025

2026

2027



Deepen the understanding on the market: FLEX TRACK & TRACE



Dimension precisely:
aFRR DYNAMIC DIMENSIONING
(Oct 2024)



Procure efficiently:
PARTIAL PROCUREMENT FRR
(Robustness check)





Energy Solutions 2024-2027: Initiatives to minimize balancing costs

Increase liquidity and competition in Balancing Products



2024

2025

2026

2027



XB liquidity & competition:
MARI (Jun 2024)
PICASSO (Oct 2024)



aFRR evolutions:
AUCTION IN D-1,
RT BASELINE, ACTIVATION
METHOD, OPENING TO LV



Value stacking:
Further facilitate
COMBOS



Continuously improve design: CRI FILTERING, FRR ACTIVATION TRIGGERS, ASSESS AUCTION PROCESS,...

FCR DECLARATIVE BASELINE & CONTINUOUS MONITORING

Facilitation of PQ: PQ WINDOW, aFRR ASYMMETRIC PQ, ALLOCATION OF PQ VOLUME TO GU

Foster participation of LV flexibility: CONDITIONS FOR DPs, BASELINE AND PQ, BID SUBMISSION,...



WILL LARGELY DEPEND ON NC DR



Increase processes robustness & user friendliness:
IMPROVE BIDDING TOOLS , ...

Improve market parties' risk management: FACILITATE SETTLEMENT BSPs



Energy Solutions 2024-2027: Initiatives to minimize costs

Increase competition

Customers want to be in control of their energy costs



We develop **energy services** to increase participation of flexible assets driven by **financial incentives** (day-ahead, intraday and real-time balancing)

The Power of Flex (Viewpoint 2023) Action 1

Providing consumers with access to financial incentives



Enabling seamless data access for energy service providers



Introducing flex-ready devices to provide flexibility in the easiest way possible

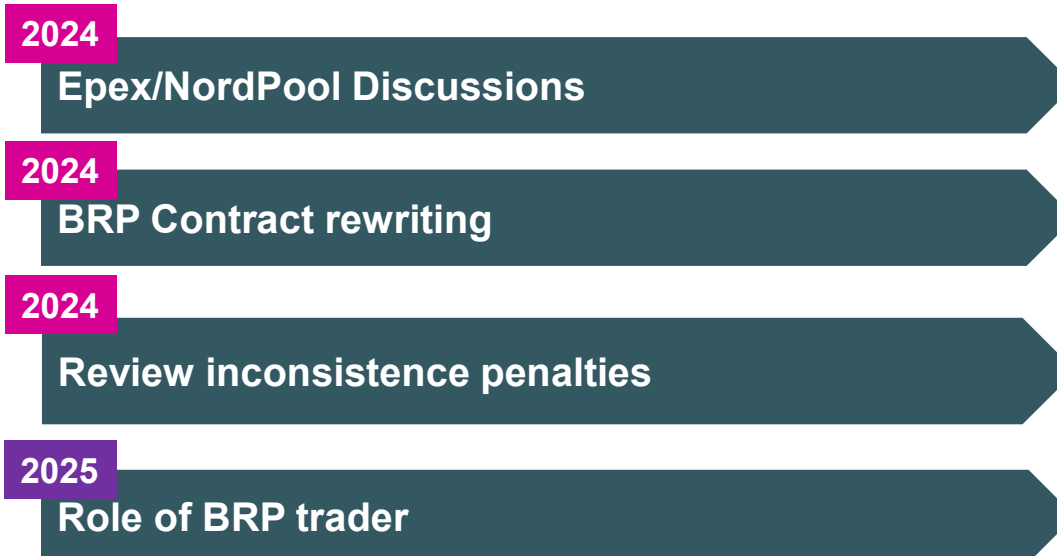
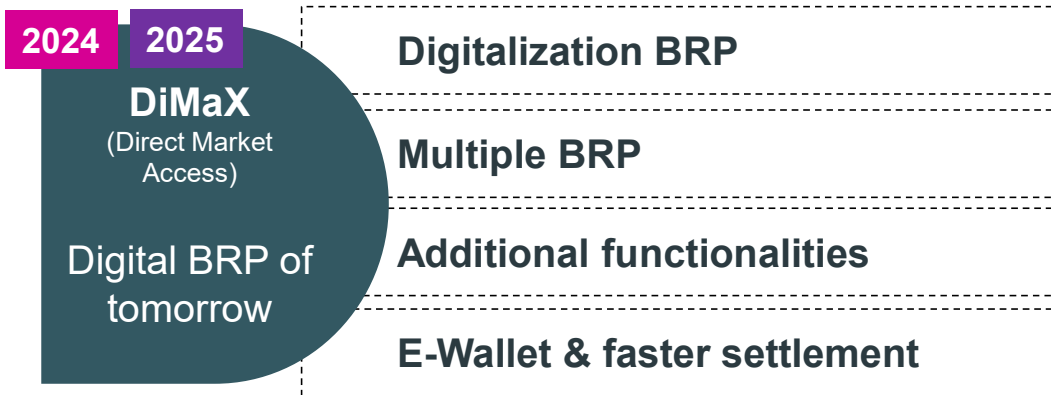
Who is directly incentivized by financial incentives?

The Balance Responsible Party

We want to foster innovative solutions proposed by BRPs to their customers

- ✓ Decrease barriers to access to the role of BRP
- ✓ Increase competition
- ✓ Facilitate & Digitalize the BRP
- ✓ Evolve to Real-Time Price

STEP 1 - Digitalize and facilitate BRP of tomorrow



STEP 2 - Evolve to a Real-Time Price

2024 2025

Smart
Balancing
Controller

Real-Time Price

Simplify

Game changer for Real-Time Price :
large scale batteries!

2024

Second design note (formula)

2024

Parallel run

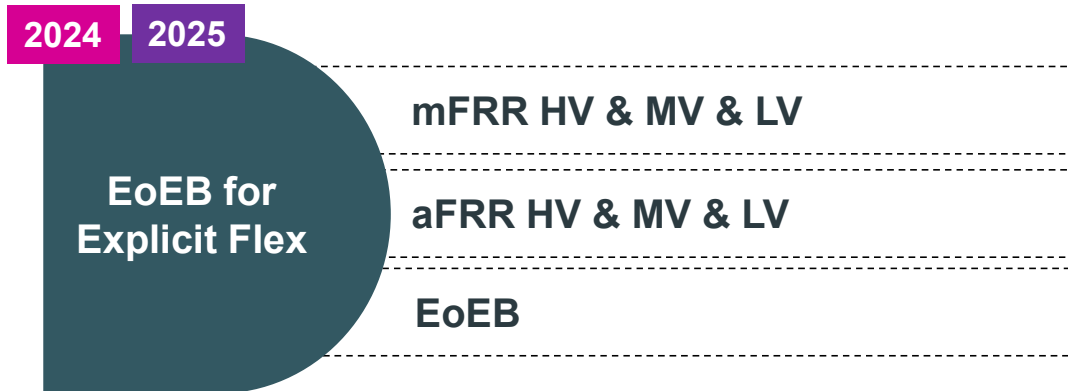
2024

Campaign European TSOs

2024

Hackathon 2024 & RTP Event

STEP 3 - Remove all “non-related obligations” from the BRP role



STEP 4 - Energy Community (on request only)



2024

2025

Energy
Community

TSO only

Cross-voltage

2024

Prospection on possible POC for Cross-voltage

Towards Grid Solutions 2027...



Grid Solutions RoadMap (1/2)



Improve information and bidding process with all relevant resources and redispatch them in a reliable way in order to optimize usage of existing grid

Icaros: deep review of the process of coordination of assets and congestion management

- 1) Open up outage planning, scheduling and redispatching to
 - **all technologies production-storage and demand** as of 1MW
 - **all parties**, by splitting up the roles of BSP/SA /OPA & BRP and hence providing more choices/empowering the grid user



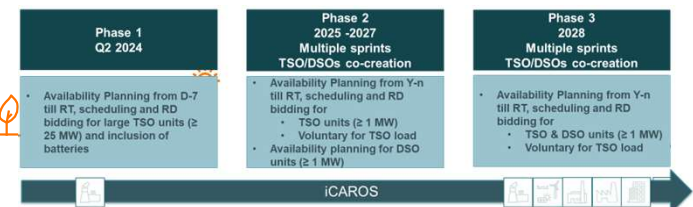
in line with EU legislation SOGL/EBGL



- 2) Modernize and facilitate data exchange related to outage planning, scheduling and redispatch
- 3) Provide more opportunities to market parties in ID while keeping the costs for society under control

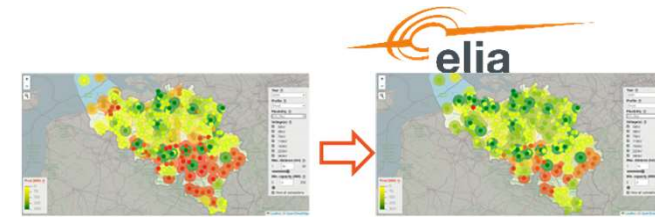


Evolutions and implementations are foreseen to be developed gradually, into 3 main phases



Grid Solutions RoadMap (2/2)

Develop a grid that can host the increase of RES and demand in time while rationalizing the (investment) costs for society



Flexibility will allow to:

- connect grid users ahead of realisation of grid investments;
- rationalise grid investments (CAPEX) in particular cases.

G-Flex product (as is): win-win for grid user (early connection) and society (efficient incentives, costs borne by GU...)

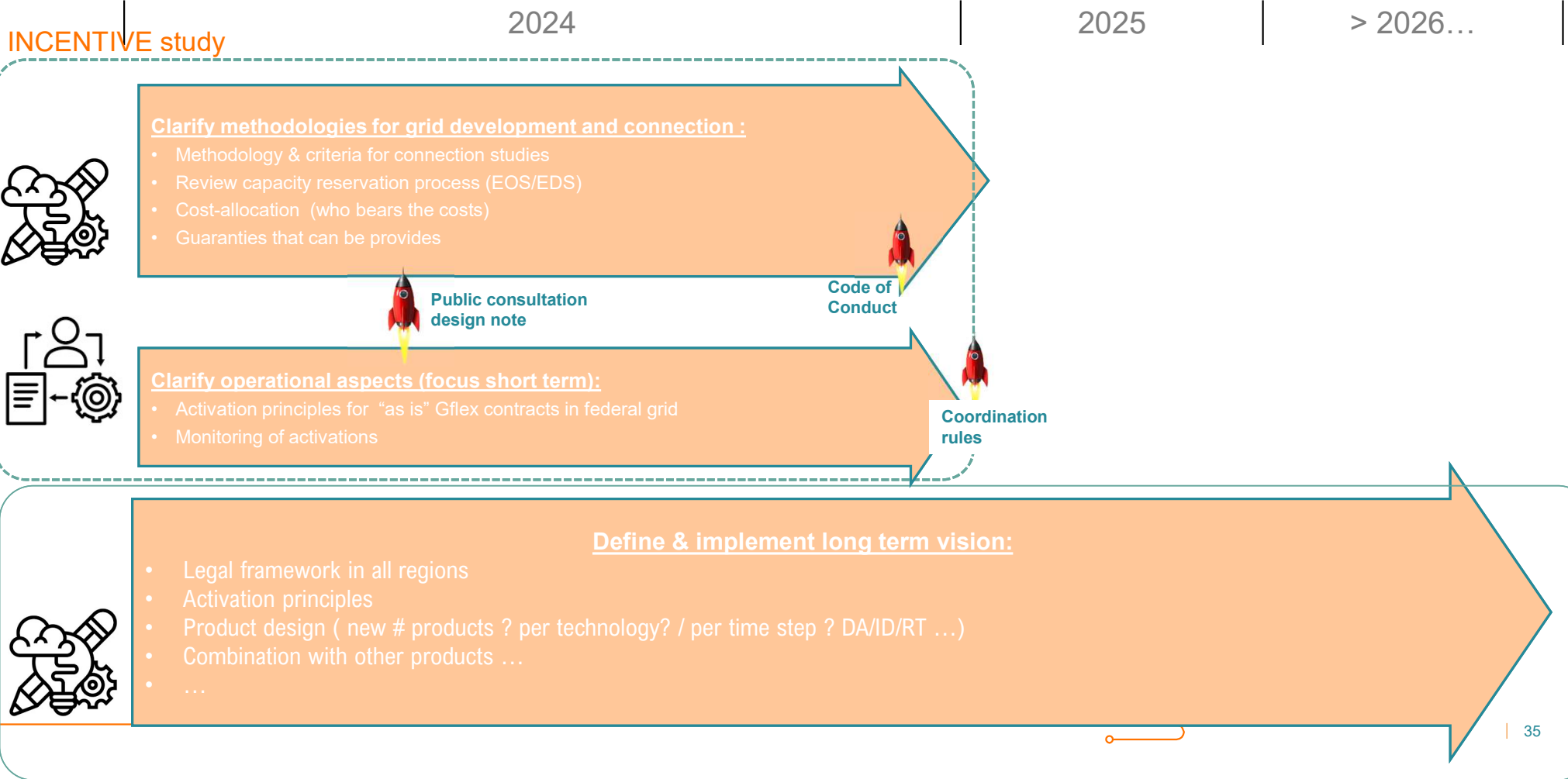
Framework for flexible access must be further elaborated given strong increase of EOS/EDS (RES, storage, electrification,...)

- **Grid planning:** methodology, applied criteria to propose flexibel access, capacity reservation process,...
- **Operational aspects:** activation principles,...
- **Product design:** integration with balancing, ROSC,...





Grid Solutions 2024-2027: GUFlex4CM - *Develop a grid that can host the increase of RES and demand in time while rationalizing the (investment) costs for society*



Grid Solutions 2024-2027: iCaros - *Develop a grid that can host the increase of RES and demand in time while rationalizing the (investment) costs for society*


2020- 2023

2024

2025

2026

2027



Icaros phase I
Go live in Q2 2024

Go Live

- ✓ Focus on PGMs & storage ≥ 25 MW
- ✓ Modern data exchange as of W-1
- ✓ Explicit RD bidding
- ✓ CRI filtering

Important note: timings phase II are provisional

- Delayed effective go-live of Icaros phase 1 \rightarrow consulted timings phase II is delayed
- Priority will be given for addressing flexible connection design

Icaros phase II

Step 1: Extend OPA to all timeframes

- ✓ focus on tools and operational facilitation for units ≥ 25 MW

Step 2: Studies to prepare next evolutions
(ex. compliancy with ROSC, design demand, design small PGM...)

Step 3: Extend OPA, SA and RD

- ✓ to PGM and storage < 25 MW
- ✓ to demand facilities

Preparatory discussions with DSOs for Icaros phase III

- ✓ Bid filtering principles
- ✓ Common outage planning platform (JOPA)

 **Grid Solutions 2024-2027: Non-frequency Ancillary Services**
Ensure liquidity, foster competition and ensure cost effectiveness

2024

2025

2026

2027



Foster competition by allowing more time to plan investments: **INTRODUCTION OF COMPETITIVE DIALOGUE** in T&C RSP



 Increase transparency: **SUPPORTING DOCS & MVAR NEEDS MAP**

Consider all technologies: **IMPLEMENT INCENTIVE 2023** IN T&C VSP & IT TOOLS

Improve communications with MVAR service providers: **UPDATE IT COMMUNICATION TOOLS**

Optimize MVAR activation, to better regulate and lower the costs: **VOLT CONTROL**

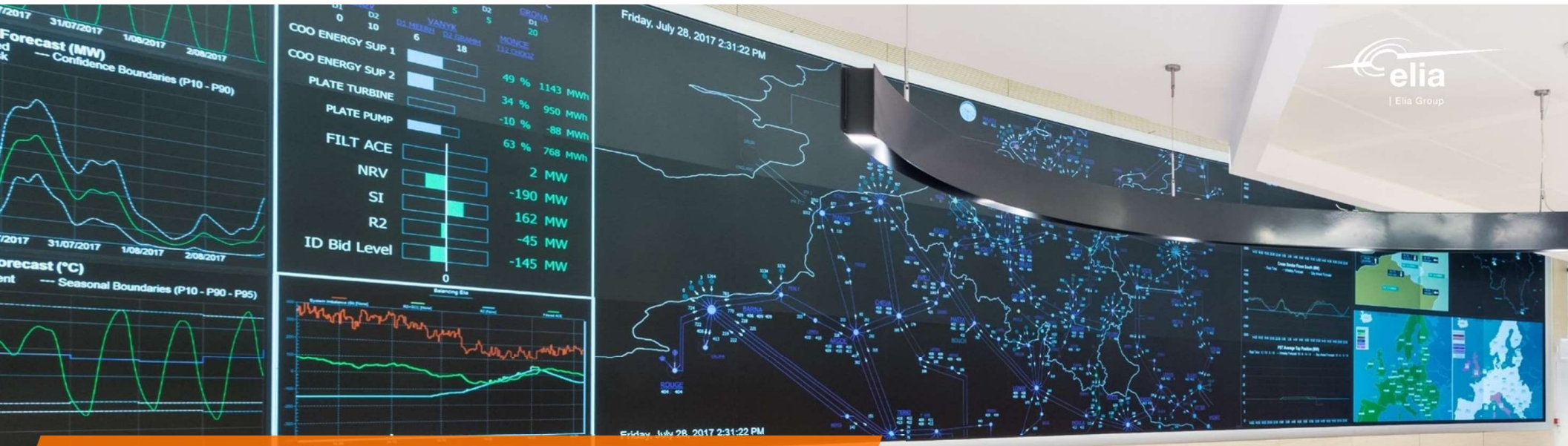


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Needs for flexibility participation in market

Status recommendations

1/3/2024 | David Zenner, Jan Voet

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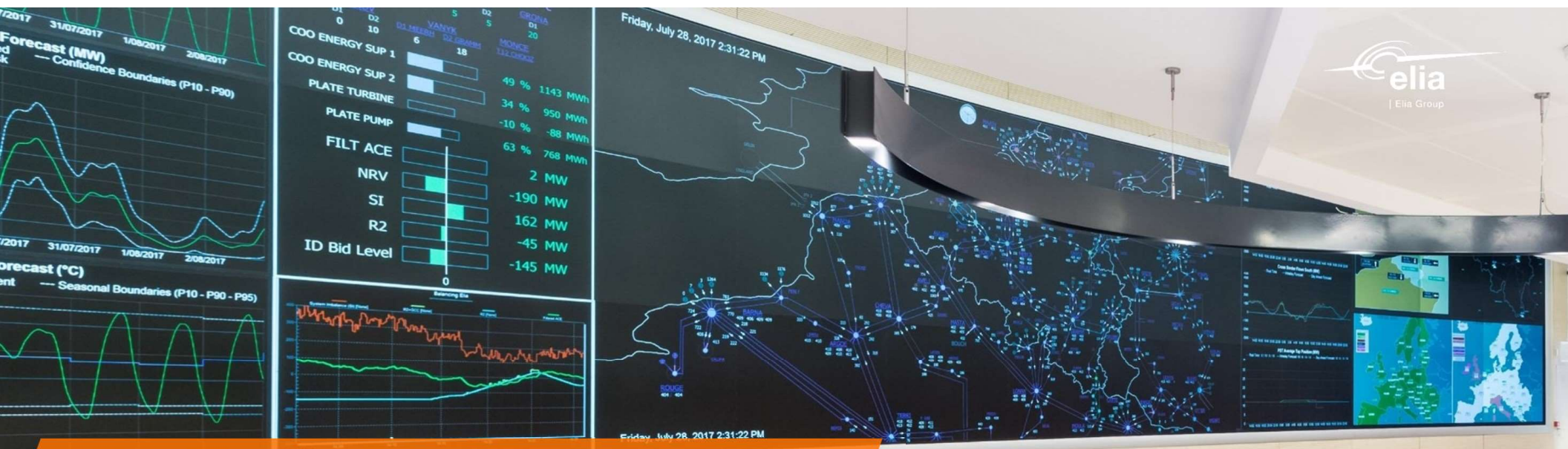
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Feedback working groups

1/3/2024 |



USERS' GROUP



WG Belgian Grid



WG Belgian Grid – vergadering 26/01



Gepresenteerde onderwerpen

- Aansluitingscontract: consultatie afgelopen 16/02
- Hosting capacity maps: oproep voor feedback - deadline 01/03 , nieuwe versie: Q4 2024
- Aansluitingsproces (EDS/EOS/capaciteitsreservatie)
 - Oefening wordt gecombineerd met Grid User Flex for congestion management
- CREG – Gedragscode – stand van zaken ontwerpbeslissing - aansluiting met flexibele toegang
 - Ontwerpbeslissing - CREG zal de aanpassing niet doorzetten
- Grid User Flex for congestion management – zie volgende slide



Grid User Flex for congestion management

- ❑ **First workshop** planned on the **23/02/2024**
 - **Clarification** on the **planning and milestones** of the **ongoing initiatives** related to **flexible access** and **connection process**
 - **Vision** on **Fundamental principles** on connection with **flexible access**
- ❑ Second and third workshops planned on 26/03/2024 and 16/04/2023
 - Content to be defined depending on takeaways of first workshop
- ❑ **Timing of public consultation** and **deliverables** to be **aligned between Elia and CREG**



USERS' GROUP



WG Balancing



WG Balancing 18/12/2023 & 07/02/2024

T&C BRP

- CREG requested an **amendment of submitted T&C BRP** by 30/1. Elia timely submitted a PfA addressing all demands of CREG but two: BRP balance obligation and Imbalance price formula were not adapted but ELIA committed to make them evolve in the context of the evaluation plan.
- ELIA presented an initial version of the **evaluation plan** to WG BAL on 18/12 and the final version, taking into account feedback from the market and CREG, on 7/2. The evaluation plan shall assess whether some elements used in the calculation of the Imbalance price (e.g. cap/floor, alpha, dead band) are useless or can be improved.
 - The evaluation plan was approved by WG BAL provided that Elia adds a metric to assess the impact of the dead band on portfolios with significant volumes of RES (done)
- CREG's decision on T&C BRP is due on March 30th



Business Testing Protocols with Market Parties

13/02 + 22–23/02 iCAROS & MARI Ind. Test 1&2

26/02 Back-up iCAROS & MARI Ind. Test 1&2

4-8/03 Common testing week 1

End March Go/No-Go MP readiness

February

- Re-do ICAROS & MARI 1&2 tests not completed (unchanged scope)
- Re-do ICAROS & MARI 3 tests (call) not completed (unchanged scope)
- Ad-hoc request of BSP for specific activations
- Ad-hoc sessions with BSP for specific scenarios

March

- Common testing: submission of production-like data (# of units, # and structure of bids, volumes, ...) for bids, schedules, outages, ... for all MPs at the same time and continuously during two weeks.
- Common testing week 1 includes tests generally similar in scope to ICAROS & MARI 2 but spontaneous without specific scenario + scenarios like back-up processes.

w5 w6 w7 w8 w9 w10 w11 w12 w13

12–29/02 : ICAROS & MARI Ind. Test 3

Pre-Requisite: Success of Test 1&2 (if not already the case in 2023)

18-22/03 Common testing week 2



WG Balancing 18/12/2023 & 07/02/2024

- Elia presented an updated Roadmap 2024:

Roadmap WG BAL PICASSO - iCAROS – MARI (PIM)

- Local go live of the new mFRR bidding and iCAROS phase 1 Mid May 2024
- Connection to EU mFRR balancing energy platform June 2024
- Connection to EU aFRR balancing energy platform October 2024

A go/no go check will be done end of March 2024

Conditional to implementation of elastic demand at EU level and to local implementation of mitigation measures

Roadmap WG BAL Other initiatives

aFRR Design Evolutions – Q4 2024

FCR Design Evolutions – Q4 2024/Q1 2025

aFRR Dimensioning – Q4 2024

iCAROS #2

Incentives 2024

Amélioration de la mise à disposition de données par Elia

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

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

Processus de facturation des BRP

Implémentation de tests intelligents de la disponibilité des réserves

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WG Adequacy



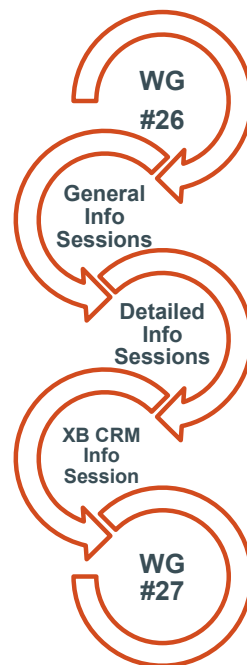
WG Adequacy – Q1 2024 Meetings

Introduction to the CRM
 Fundamental **principles**
 Key **features** of the CRM
Regulatory requirements to participate to the mechanism

Introduction to Cross-Border participation to the CRM
Principles of Cross-Border CRM
Additional processes for the cross-border capacities

23/02/2024
 15/03/2024

07/03/2024



31/01/2024

01/03/2024
 22/03/2024

29/03/2024

Update on **Availability Monitoring & Payback Obligation implementation Workshops**
Reactions to the formal **Public Consultation** of the Functioning Rules
 Update of the **regulatory framework**

Examples of **complex modalities**
 Detailed overview of **Prequalification, Auction & Capacity Contract Signature**
 Deep dives on **Pre-Delivery & Delivery processes**

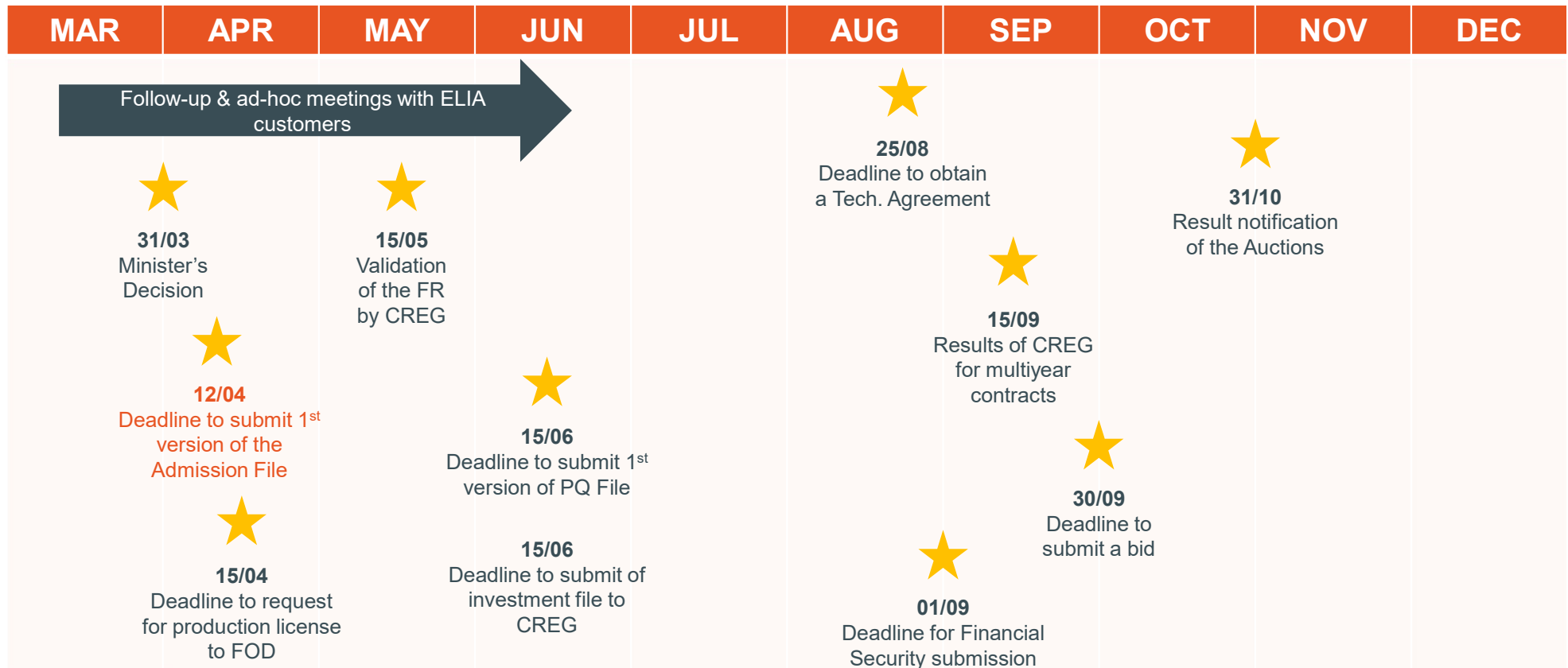
Agenda to be determined



Main Topics

- Elia organises **implementation workshops on availability monitoring and payback obligation** to support market parties
 - General and detailed info sessions that focus on design are also organized (1Q2024)
 - Specific operational workshops to support market parties to implement these complex processes (2Q – 4Q2024).
- Feedback on the **public consultation of CRM Functioning Rules v4** (to be approved by CREG by 15 May 2024)
 - Elia presented feedback, including e.g. clarification on the PQ process (incl. low voltage and CO2 requirements), the auction volumes (e.g. impact of Y-2 auction on volumes) and the monitoring modalities (pre-delivery & availability monitoring).
- Cabinet presented an overview of the foreseen **changes to the CRM regulatory framework** (entry into force April 2024)
 - Update of the Electricity Law (LDD v3, including introduction of Y-2 auction, dynamic 200h rule, update article 4 bis and formalisation of the CO2 competences).
 - Modification of the Royal Decree on Investment Thresholds to introduce multi-year contracts for existing capacity.
 - Update of the Royal Decree Methodology for the Y-2 Auction and to clarify the IPC process/calculation.

CRM auction - key dates in 2024



Overview of Public Consultations in 2024 WG Adequacy



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WG SO&EMD



WG SO&EMD

Domain	Agenda topic
SO	NCC Yearly report 2023
SO	Emergency & Restoration: LFDD
SO	Tendering Black Start Q2 2024
EMD	Core Intraday Capacity Calculation project: status
EMD	IDA Go live planning + attention points from BE perspective
EMD	Long Term evolutions: insights on the LT FB implementation & Elia's view
EMD	15' MTU SDAC project plan to go live Q1 2025 & relevant aspects on BE level



Agenda

1. **Approval report 19/12/2023**
2. **Status large infrastructure projects**
3. **Towards Energy & Grid Solutions 2027**
4. **Needs for flexibility participation in market**

Proposals for recommendation:

- * Flex readiness E-assets
- * Submetering requirements for flexibility

5. **Feedback working groups***

5.1. WG Belgian Grid

5.2. WG Balancing

5.3. WG Adequacy

5.4. WG EMD-SO (incl. TF PEZ)

6. **Miscellaneous**

6.1. Next meeting: June 10

** no WG CCMD occurred between the Plenary meeting of December and now*



Thank you.

