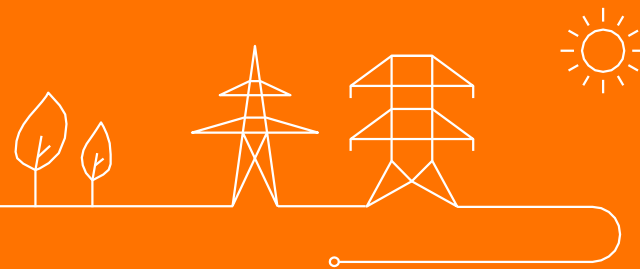


Users' Group

Working group Belgian Grid

December 13th 2024



Agenda



1. Conformiteit – follow up previous WGBG – Q&A
2. Digitalisatie Netgebruikers - roadmap
3. GUFlex - roadmap
4. Bankwaarborg – 2025
5. Hosting Capacity Map
6. Fully Charged for change – energieGRIP / Plan de Puissance
7. Aansprakelijkheidsclausules
8. Aansluitingscontract - aanpassingen na feedback regulatoren + planning
9. Toegangscontract – resultaten consultative en volgende stappen
10. AOB

1. WGBG dates 2025 & invitation format



Agenda



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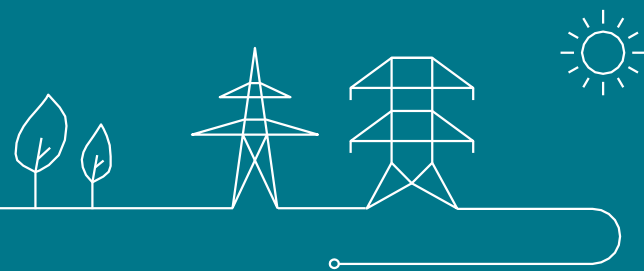


Conformity Process Q&A

Olivier Bronckart



Questions?



Agenda



1. Conformiteit – follow up previous WGBG – Q&A
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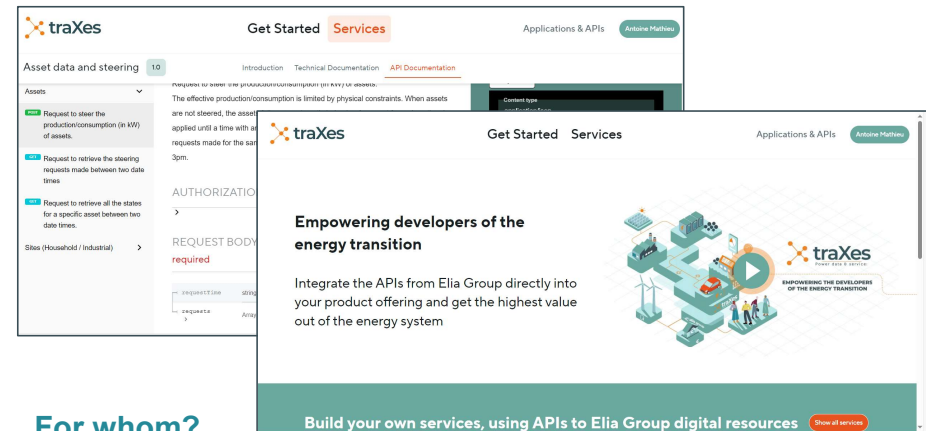
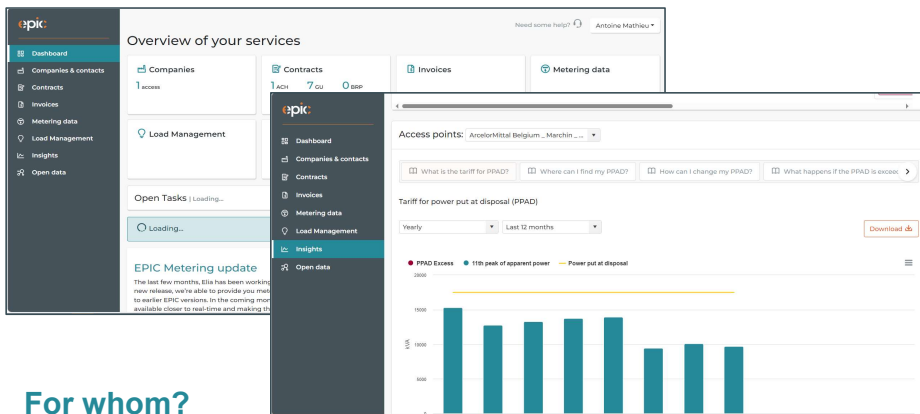
Roadmap digitalization Grid Users

Manuel Aparicio



2-Portals

Through a reduced number of portals we wish to **provide a better customer journey (satisfaction)** and more efficient approach



For whom?

HUMANS: Elia Group stakeholders

What?

One-stop shop Customer Portal

Why?

Digitalize our services towards our key stakeholders, catching up and ensuring satisfaction

For whom?

APPLICATIONS: Front-runners willing to integrate their systems with Elia's

What?

One-stop shop API Portal

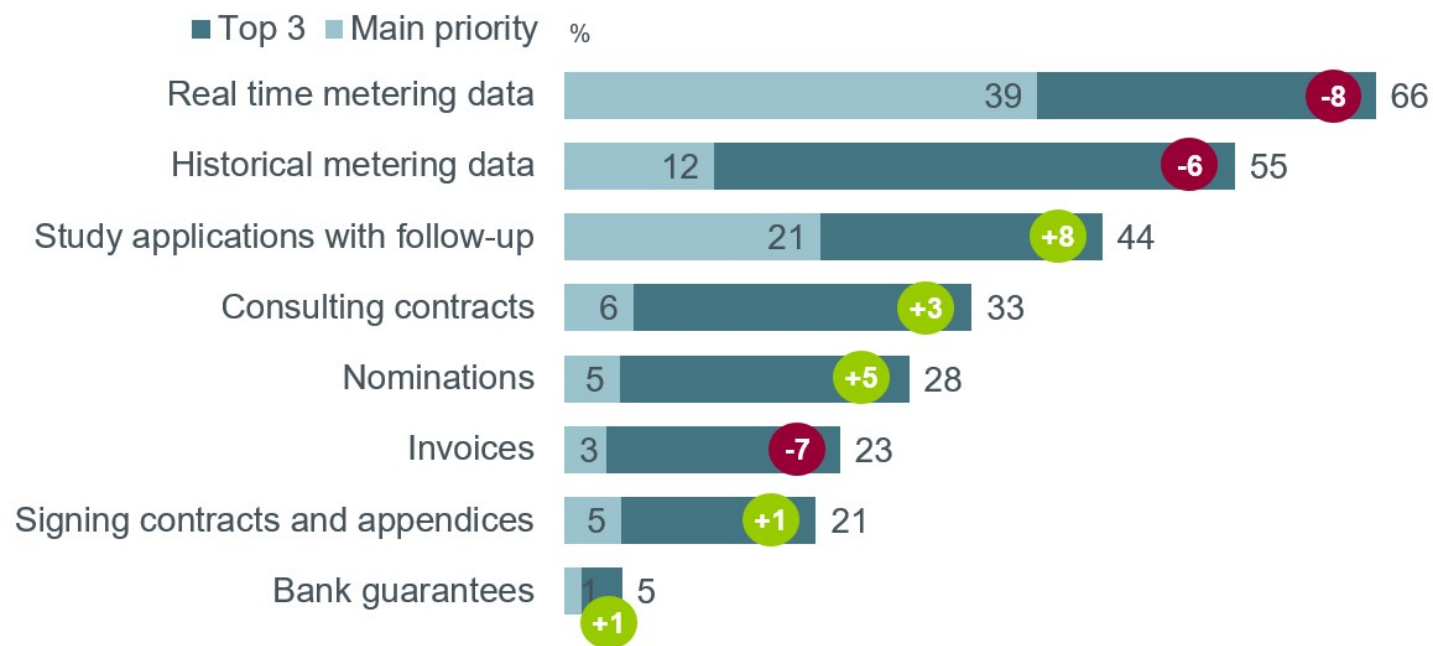
Why?

Provide business accelerators to increase energy services offering⁸ and unlocking additional flexibility

Customer Satisfaction Survey 2024

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.



Q3.13

Base: Total (n=233)

What do you think Elia should prioritize when digitizing processes and information?

+ = - compared to 2022

Roadmap digitalization Grid Users



2024

2025

Real time and historical metering data

- GU metering in EPIC ✓
- Near real time metering API for GU in Traxes

- ACH metering in EPIC
- Near real time metering API for ACH in Traxes

Study application and follow up

- Connection studies overview

- Study request by existing clients in EPIC
- Study request by new clients in EPIC

Consulting contracts

- Improvements contact mgmt. in EPIC ✓

- Digitalization connection annexes in EPIC

Others (load mgmt. + invoice services)

- Load mgmt. with scenarios and flexibility in EPIC ✓
- Insights on PPAD forecast in EPIC

- Insights additional reactive power calculation in EPIC
- Full electronic invoicing for GU/ACH through Peppol

Delivered

Ongoing

Not started



Realisations
H1 2024

H2 2024

H1 2025

H2 2025

Beyond

Real time and
historical
metering data

Improve consistency of metering data in EPIC

First prototype of API

First handling of NRT data

API for GU metering data in TraXes

Improve performance of EPIC metering

EPIC metering for access contract holders

Apparent power in EPIC

API for ACH metering data in TraXes

Study application
with follow up

Connection study overview in EPIC

Study request by existing clients in EPIC

Study request by new clients in EPIC

Give Grid Users an overview of REA phase in EPIC (incl. compliancy assessment, status project, invoicing, etc)

Consulting
contracts

Improved customer experience and quality controls at entrance for contacts in EPIC

Make annex 1, 4, 6 of the connection contract available on EPIC *

Further contract digitalization in EPIC

API for structural and contractual data in TraXes

All contracts available in EPIC (basic info)

Others (load
mgmt. &
insights on
invoices)

Integration scenarios and flexibility in load mgmt. in EPIC

More reliable PPAD insight in EPIC

Insight on reactive power in EPIC

Full electronic invoicing for GU/ACH through Peppol

Simulation of the access invoices in EPIC

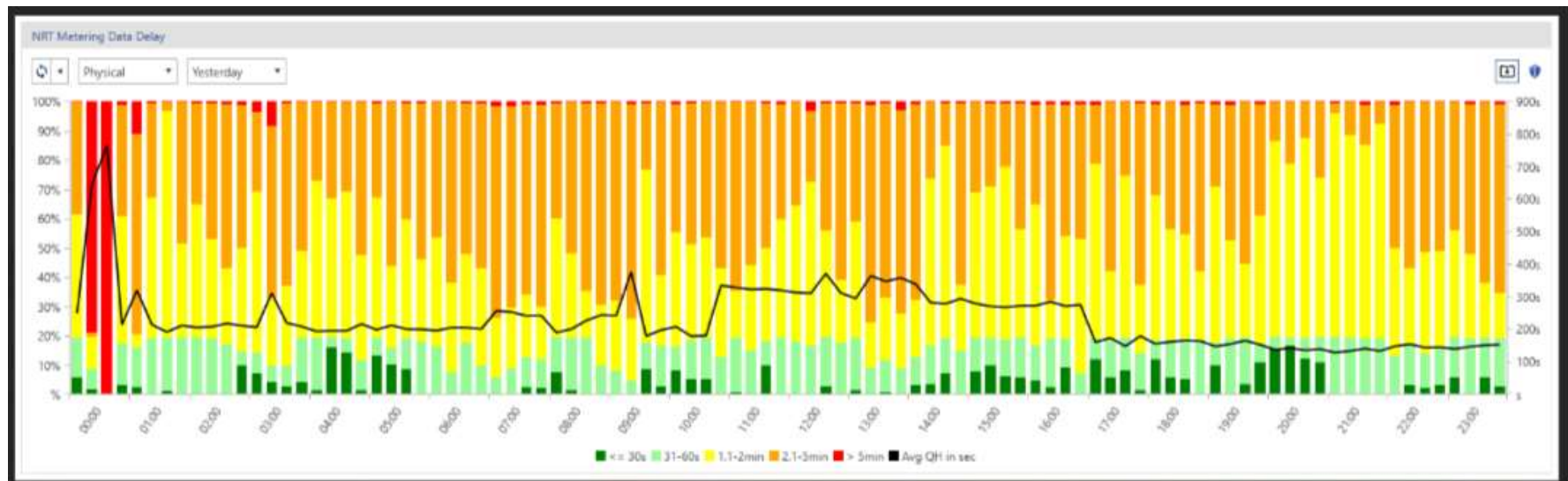
Demos & mockups

- Real time and historical metering data
 - Enabling near real time metering data
 - Metering API for Grid Users in TraXes
 - ACH metering in EPIC
- Study application with follow up
 - Connection study overview in EPIC
 - Existing clients study request in EPIC
- Others (load mgmt. + insights invoices)
 - Load Management in EPIC
 - Insights on PPAD forecast in EPIC
- Watts.happening

Real time and historical metering data

Roadmap digitalization Grid Users

Enable near real-time metering data



- ✓ Changes in the backend to enable near real-time metering data
- ✓ Near real time metering data available with a delay of less than 5min 99% of the time

Metering API for Grid Users



What is it and for who?

The metering API is available to all Elia Grid Users who have a signed connection contract and allows them to request metering data of their own access points and underlying metering points.

- For historical data, but also up to near real-time
- Different data granularities possible (Qh,, hourly daily, monthly)
- For the different measured properties

What value does it bring for the grid user?

- Allow easier integration of metering data in the workflows of the grid user.
- Secure data communication towards the grid user
- Increase maintainability of the grid user application landscape by using standardized technologies.



Co-created and tested with 3 grid users!



Live as of the week of 16/12/2024



Next step is to expand solution to other stakeholders

Are you interested or do you want more information: visit <https://www.traxes.io/> or contact us metering.services@elia.be

Metering API for Grid Users

Live as of the week of
16/12/2024



Get Started **Services**

Login

Services




Imbalance price forecast

Retrieve the forecast of the imbalance price, available as of 1 minute before the quarter hour which is forecasted.

[For business](#) [For Developers](#)

[Go to Introduction](#) [Go to Technical documentation](#) [Go to API documentation](#)



Metering Data

Retrieve the metering data for all access points for which you have a connection contract with Elia.

[For business](#) [For Developers](#)

[Go to Introduction](#) [Go to Technical documentation](#) [Go to API documentation](#)



Metering API for Grid Users

Live as of the week of
16/12/2024



traXes

Get Started Services

Metering Data v1

Introduction Technical Documentation API Documentation

PRODUCTION

Search...

Metering

Metering v1 (1.0.0)

Download OpenAPI specification: [Download](#)

Interface description of the API for Metering.

Metering

Metering_GetMeasurementValues

AUTHORIZATIONS: *bearerAuth*

REQUEST BODY SCHEMA: *application/json-patch+json* **required**

Property	Type
deliveryPointCodeList	Array of strings
measuredPropertyList	Array of strings (MeasuredPropertyType) Items Enum: "AG00" "AG01" "AG1" "AG2" "G01" "G00" "G1" "G0" "G000" "G001" "G01" "G00" "AG00" "AG01"
periods	Array of objects (TimeRange)
intervalLength	string (IntervalLengthType) Enum: "Block" "Quarter" "Hour" "Day" "Month" "Year"
lastUpdatedSince	string -date-time

Responses

Request samples

POST /v1/meteringbycompany

Payload

```
Content type: application/json-patch+json
```

```
{
  "deliveryPointCodeList": [
    "string"
  ],
  "measuredPropertyList": [
    "AG0"
  ],
  "periods": [
    * (-)
  ],
  "intervalLength": "None",
  "lastUpdatedSince": "2019-08-24T14:15:22Z"
}
```

Response samples

200 400 404 500

ACH Metering in EPIC

Coming in 2025



Metering Data Get your data via API

XXXX XXXX

Access points

Grid user Access Contract Holder

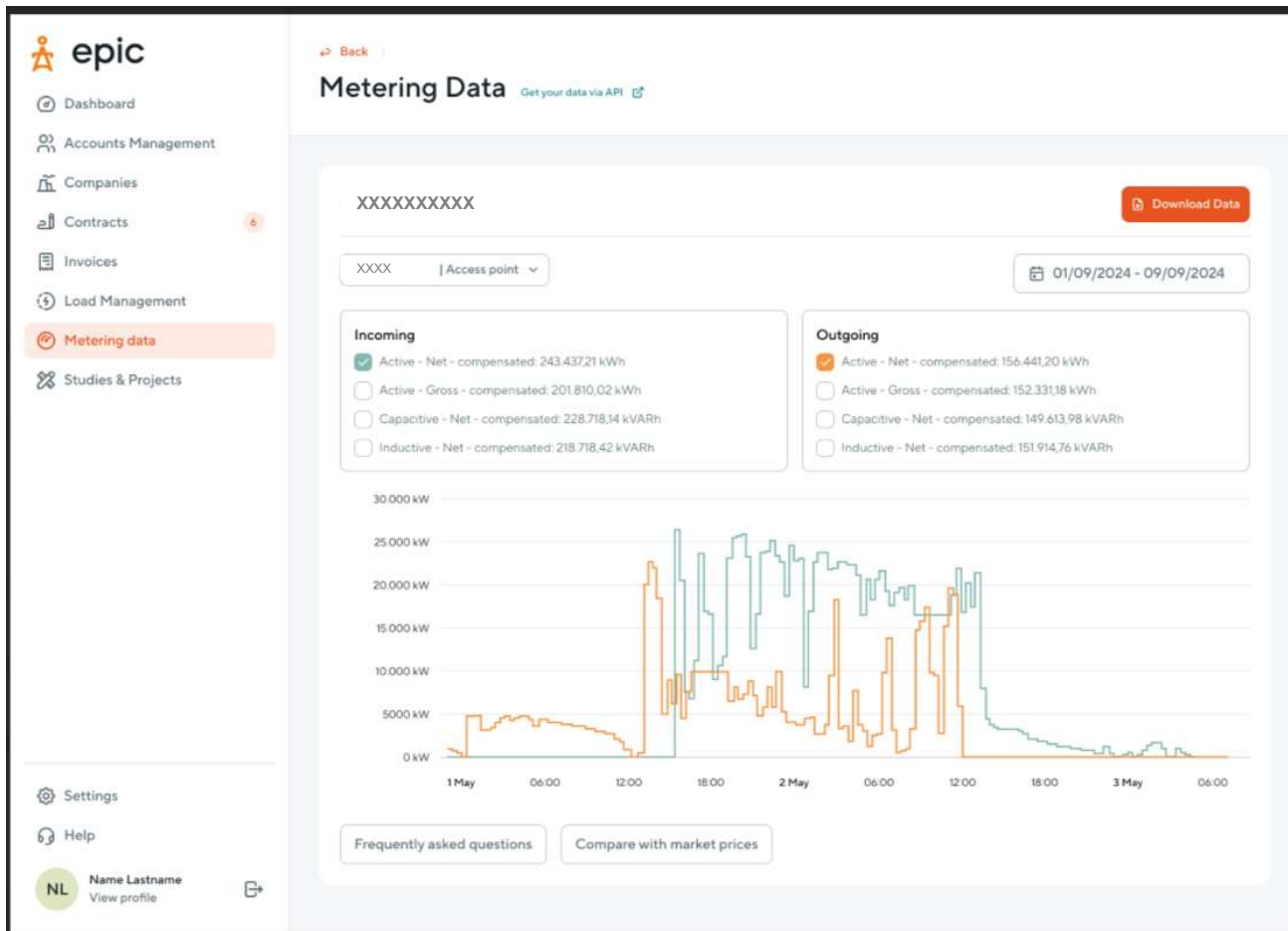
Search by name or EAN number Download all metering data

Name	EAN	Metering points	EAN	
XXXXXXXXXX	XXXXXXXXXX			Download data Show volumes
Connection points				
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	Download data Show volumes
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	Download data Show volumes
Technical units				
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	Download data Show volumes
XXXXXXXXXX		XXXXXXXXXX	XXXXXXXXXX	Download data Show volumes
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	Download data Show volumes
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	Download data Show volumes
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	Download data Show volumes
Subaccess points				
XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	Download data Show volumes
Other metering points				
		XXXXXXXXXX	XXXXXXXXXX	Download data Show volumes
		XXXXXXXXXX	XXXXXXXXXX	Download data Show volumes

This is a fictitious example

ACH Metering in EPIC

Coming in 2025

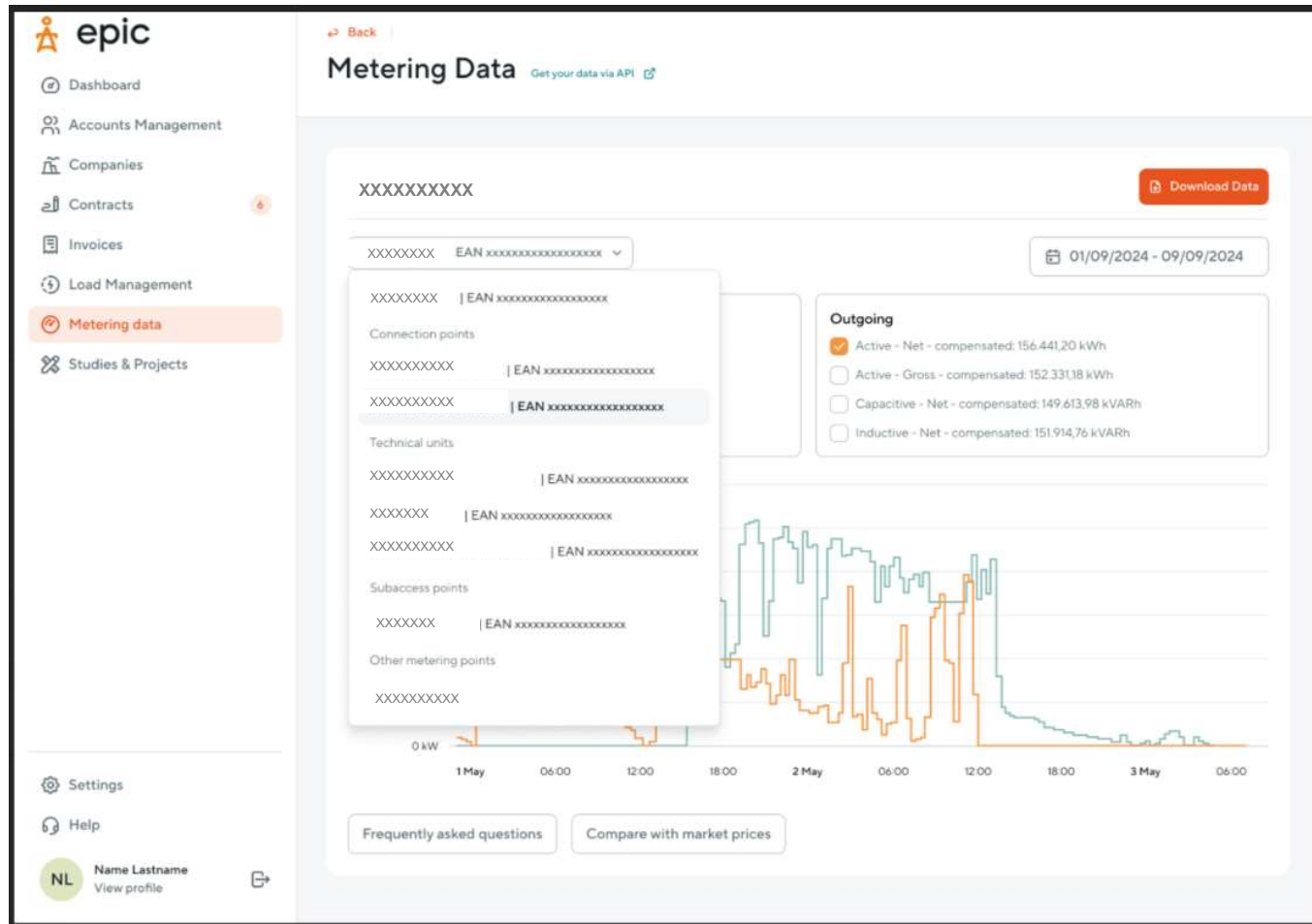


This is a fictitious example

Coming in 2025



ACH Metering in EPIC



This is a fictitious example

ACH Metering in EPIC

Coming in 2025



epic

Note: Prefer toggle (reuse component, reuse url structure, ...)

Metering data

Download center

XXXX XXXX

Grid user Access Contract Holder

Name	Creation date	Date range	
%Name_item+5414xxxxxxxxxxxxx%.zip	24/12/03 16:31	24/11/01 - 24/11/31	File processing ⚙️
%Name_item+5414xxxxxxxxxxxxx%.zip	24/11/31 17:26	24/10/01 - 24/10/31	File generation failed. Retry file generation 🗑️
%Name_item+5414xxxxxxxxxxxxx%.zip	24/11/28 16:31	24/10/01 - 24/10/01	Download file 📄 🗑️
%Name_item+5414xxxxxxxxxxxxx%.zip	24/11/03 16:31	24/09/01 - 24/09/30	Download file 📄 🗑️
%Name_item+5414xxxxxxxxxxxxx%.zip	24/10/03 16:31	24/09/01 - 24/09/30	Download file 📄 🗑️
%Name_item+5414xxxxxxxxxxxxx%.zip	24/09/15 16:31	24/09/13 - 24/09/14	Download file 📄 🗑️
%Name_item+5414xxxxxxxxxxxxx%.zip	24/09/03 11:06	24/08/01 - 24/08/30	Download file 📄 🗑️
%Name_item+5414xxxxxxxxxxxxx%.zip	24/08/26 09:31	24/07/01 - 24/07/30	Download file 📄 🗑️

This is a fictitious example

Study application with follow up

Roadmap digitalization Grid Users



EPIC – Connection Lifecycle

From



What is the status of my study?

To

The screenshot shows the 'Studies & projects' section of the EPIC application. It features a sidebar with navigation options: Dashboard, Accounts Management, Companies, Contracts, Invoices, Load Management, Metering data, Studies & Projects (highlighted), Settings, and Help. The main content area is titled 'Studies & projects' and includes a '+ Request a new study' button. Below this, there are tabs for 'All companies', 'Company X', and 'Company Y'. A 'List of studies & projects' table is displayed, with a note stating 'Each study, even if it is not submitted to Elia, will appear in this list.' The table has columns for Study reference, Project title, Company, Access point, Status, and Point of contact. Two rows are visible: one for 'EOS-0976' with status 'Complete' and one for 'EDS-1234' with status 'Missing info'. Below the table, there are four help links: 'How do I start a new study?', 'Overview of the whole process', 'Where can I find my PPAD?', and 'How can I change my PPA >'. The Elia logo is visible in the bottom left corner of the slide.

Study reference	Project title	Company	Access point	Status	Point of contact
EOS-0976	XXXXXXXX	Company X	XXXXXXXX	Complete	XXXXXXXX
EDS-1234	XXXXXXXX	Company Y	XXXXXXXX	Missing info	XXXXXXXX

Study overview

Live as of January 2025



Studies & Projects

Manage your studies & projects

+ Request new study

All companies xxxxxxxx xxxxxxxx xxxxxxxx xxxxxxxx

List of studies and projects

Each study, even if it is not submitted to Elia, will appear in this list.

For more information you can check an external page with the whole process. Visit external page

Study reference	Project name	Company	Site	Status of study	Point of contact
	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	Missing Info	XXXXXXXXXX Resume
EOS-9997	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	Request	XXXXXXXXXX Resume
EOS-1068	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	Study closed	XXXXXXXXXX B
EDS-1055	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	Ongoing	XXXXXXXXXX Resume
EDS-1041	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	Ongoing	XXXXXXXXXX Resume
EOS-1067	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	Ongoing	XXXXXXXXXX Resume

This is a fictitious example



EPIC – Connection Lifecycle

From

https://www.elia.be/en/customers/connection/get-connected-to-our-grid/connection-request-form

Customers > Connection > Get connected to our grid

Connection request

This form is only available in French and Dutch.

Données d'étude

Demandeur (candidat) Utilisateur de réseau

Nom de l'entreprise: *

Forme juridique: *

Numéro d'entreprise: *

Numéro de TVA: *

To

[Back to studies overview](#)

Modify connection request

Prerequisites Request type Administrative information Technical information Review

Administrative information for the request

Project name *

Name of your project

Connection you want to modify

Select the site of the connection

Select the access point *

Site

Study request: Select type of project

Step1 - Prerequisite

[Back to studies](#)

Modify connection request

1 Prerequisites 2 Administrative infor... 3 Connection informa... 4 Technical information 5 Review

Wich company is requesting the study?

Company name
XXXXXXX

What kind of project do you plan to initiate?

Modify connection
I want to modify an existing connection to the Elia grid
installation of new asset, modification of the load

New connection
I want a new connection for existing Elia connected site
dedicated connection for a battery on my site or to increase redundancy

New site
I want a new connection for another site
dedicated connection for a battery on my site or to increase redundancy

[Next →](#)

Coming in 2025



[Back to studies](#)

New connection request

1 Prerequisites 2 Administrative infor... 3 Connection informa... 4 Technical information 5 Review

Wich company is requesting the study?

Company name
XXXXXXX

What kind of project do you plan to initiate?

Modify connection
I want to modify an existing connection to the Elia grid
installation of new asset, modification of the load

New connection
I want a new connection for existing Elia connected site
dedicated connection for a battery on my site or to increase redundancy

New site
I want a new connection for another site
dedicated connection for a battery on my site or to increase redundancy

About your request...
We need some information to determine what fits the best your current needs.

What is the apparent power of your project (in MVA)?

less than 15 MVA
 between 15 and 25 MVA
 more than 25 MVA
 I don't know

[Next →](#)

This is a fictitious example

Study request: Fill/edit administrative info

Step2 – Administrative information

Coming in 2025



Administrative information for the request

Connection you want to modify

Select the site of the connection*

Bruxelles

Site
Bruxelles
XXXXXXXX

Describe the location of your facility (GPS, other)

TST 0512024

Topology map

Upload map

Administrative information_New connection.png X

Rights on the connection facility

Upload file

New_25 MVA.png X

Technical project referent

Who will be the responsible person who will work on this project?

Same as requestor (Aurélia Cullen)?*

Yes

No

Company*

XXXXXXXX

First name* Last name* Language*

Aurélia Cullen French

Job Title Email Phone* Mobile*

Tester aurelia.cullen@external.be +3223761523 +32478912770

← Previous Save progression Next →

This is a fictitious example

Study request: Fill and upload connection info Coming in 2025

Step3 – Connection information



[↩ Back to studies](#)

New connection request



Connection Info

Study reference

Was an orientation study already introduced for this project?*

Yes

No

Reference of the study*

EOS-1234

Commissioning date

This information will allow Elia to take the right hypothesis into account.

When would you like to be connected to Elia grid? *

Please note that this date is your desired commissioning date but this date is not (yet) binding for Elia.

Shared connection

A shared connection is a connection that is used by two grid users. Both the existing grid user and the new grid user need to request a detailed study to Elia.

Does this study concern a shared connection?*

Yes

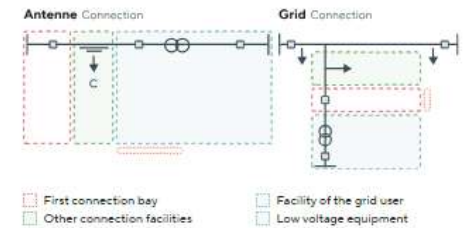
No

Name of the company that will share the connection with you*

Part B

Generally speaking, the part B is the cable between the Elia substation and the grid user substation. This cable can be placed by Elia or by the grid user (directly or via a third-party).

If a new cable connexion is needed, who will realize the connection?*



Single line diagram

Your single line diagram should at least include :

- Electrical elements (lines, cables, busbars, circuit breakers, switchgear, ...)
- Power Transformers (including rated power, voltage and earthing of the transformer)
- Voltage and current transformers
- Localisation of the production and storage units in your industrial grid.
- Connection point (limit between the facilities of the grid user and the rest of the Elia grid) and limit of property

Single line diagram to annex*

Islanded mode

Are you designing your facility to work on islanded mode? This may have an impact on the electrical protections of your facility compliance procedure, before the commissioning of your generation unit.

Are you designing your facility to work on islanded mode?*

Yes

No

I don't know

[← Previous](#)

[Save progression](#)

[Next →](#)

This is a fictitious example

Study request: Fill technical info

Step4 – Technical information

Technical information

Offtake power

How much power (in MVA) would you like to be able to offtake from the Elia grid?

Requested offtake power on your connection point*

 MVA

Type of load*

Electrification

Describe what would be the long term evolution of your offtake power

TST 05112024

Injection power

How much power (in MVA) would you like to be able to inject to the Elia grid? If you don't provide any value here, Elia will consider standard values

Requested injection power on your connection point*

 MVA

Power factor (cos phi) at maximal power*

 MVA

Describe what would be the long term evolution of your production power

TST 05112024

Power evolution

If your project has multiple phases, we would like to know the requested power at each phase.

Can you provide a forecast of your needs?*

Yes

No

Further evolution of power (MW)

	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Offtake power	25,9	MVA	25,9	MVA	25,9	MVA	25,9	MVA	25,9	MVA
Injection power	25,1	MVA	25,1	MVA	25,1	MVA	25,1	MVA	25,1	MVA

Coming in 2025



Assets description

How much power (if you want to build new production or storage assets, you must provide below the technical information relate would you like to be able to inject to the Elia grid? If you don't provide any value here, Elia will consider standard values.

Production

You should select Production if your request concerns one or multiple production unit(s)

Please, describe here the production units that you want to install

Production unit name* Type of production unit*

Number of units* Max. technical power per unit* MW/unit

Power used by ancillaries MW/unit Short circuit power contribution MW/unit

Type of generator* Asynchronous Synchronous To be defined

Remark:

[+ Create a new unit for production](#)

Battery

You should select Battery if your request concerns one or multiple storage facilities

Please, describe here the battery units that you want to install

Battery name* Type of battery unit*

Number of units* Max. net injection power per unit* MW/unit

Power used by ancillaries MW/unit Max. amount of energy stored MW/unit

Type of generator* Asynchronous Synchronous To be defined

Remark:

[Save progression](#) [Next](#)

This is a fictitious example

Study request: Review and submit

Step5 – Review

Coming in 2025



Review your request

Administrative information for the request Edit

Name of your project: **Bruxelles Offtake 25,95MVA** Company name: **XXXXXX**

Site
Bruxelles
XXXXXX

Requester information
Aurélia Cullen
Tester
aurelia.cullen@external.be
+32475912770

Connection information Edit

Reference of the study*: **EOS-1234** When would you like to be connected to Elia grid? *: **11/2027**

Part B
If a new cable connexion is needed, who will realize the connection? *: **ThirdParty**

Single line diagram
Single line diagram to annex: [Administrative information.png](#)

Technical information Edit

OfftakePower
Requested offtake power on your connection point*: **25,95 MVA** Type of load: **Electrification**

Describe what would be the long term evolution of your offtake power*: **TST 0512024**

InjectionPower
Requested injection power on your connection point*: **25,123 MVA** Power factor (cos phi) at maximal power: **0,65 MVA**

Describe what would be the long term evolution of your production power*: **TST 0512024**

Power evolution

Can you provide a forecast of your needs?*

Yes

Further evolution of power (MW)

	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036
Offtake power	25,95 MVA	25,95 MVA	25,95 MVA	25,95 MVA	25,95 MVA	25,95 MVA	25,95 MVA	25,95 MVA	25,95 MVA	25,95 MVA
Injection power	25,123 MVA	25,123 MVA	25,123 MVA	25,123 MVA	25,123 MVA	25,123 MVA	25,123 MVA	25,123 MVA	25,123 MVA	25,123 MVA

Assets description

Production

PUI 10 STEG

Production unit name	Type of production unit
PUI1	STEG

Number of units	Max. technical power per unit	Power used by ancillaries	Short circuit power contribution
10	25,652 MW/unit	25,652 MW/unit	8,875 MW/unit

Battery

BAT1 1 Hydro unit - Pumping station

Battery name	Type of battery unit
BAT1	Hydro unit - Pumping station

Number of units	Max. net injection power per unit	Power used by ancillaries	Max. amount of energy stored
1	25,465 MW/unit	25,847 MW/unit	25,847 MW/unit

BAT2 1 Battery Energy Storage System

Battery name	Type of battery unit
BAT2	Battery Energy Storage System

Number of units	Max. net injection power per unit	Power used by ancillaries	Max. amount of energy stored
1	25,865 MW/unit	25,847 MW/unit	25,847 MW/unit

Reduced

[Previous](#) [Save progression](#) [Submit](#)

This is a fictitious example

Others (load mgmt. + insights Invoices)

Roadmap digitalization Grid Users

The Load management tool (Elia Grid users) : what's new this year ?

Already live



NEW - Scenarios for estimates in MW and MWh

Consumption - Power forecast

- Scenarios of gross power forecast for the next 10 years (NEW)

Actions:

- Define scenarios incl. probability
- Describe scenarios incl. decision factors
- Adapt the base gross consumption values if needed
- Define new electrical processes per scenario

Rem: Don't forget to introduce a detail study on Elia website when project is mature

NEW - Flexibility of processes

What is flexibility?

(In the context of load management)

Any temporal change in electricity consumption which is not driven by your business needs (e.g. manufacturing of goods).

These can occur from/in reaction to a variations of electricity prices, an activation request from an external party, or a proactive alignment of consumption with local generation

All generation/battery units have natural flexibility, as does your consumption processes via demand shedding or demand shifting

Get to know your flexible load in Tab "FLEX"

List of Existing processes (As defined in Assets)
Are you offering flexibility with this process?

- yes: Can we deep-dive in order to better understand and unlock you maximum potential?
- no: Can we review the reasons ('menu') and potential limitation?

List of Future processes (As defined in Forecast Power)
Do you intend to be flexible with this new process?

- yes: Can we investigate in order to unlock your maximum upcoming potential?
- no: Don't hesitate to contact your KAM to assess potential or go to [Watthappening.com](https://www.watthappening.com)

NEW - Description of existing and new processes

NEW - 2 webinars in order to explain the goals and give guidance to the grid users

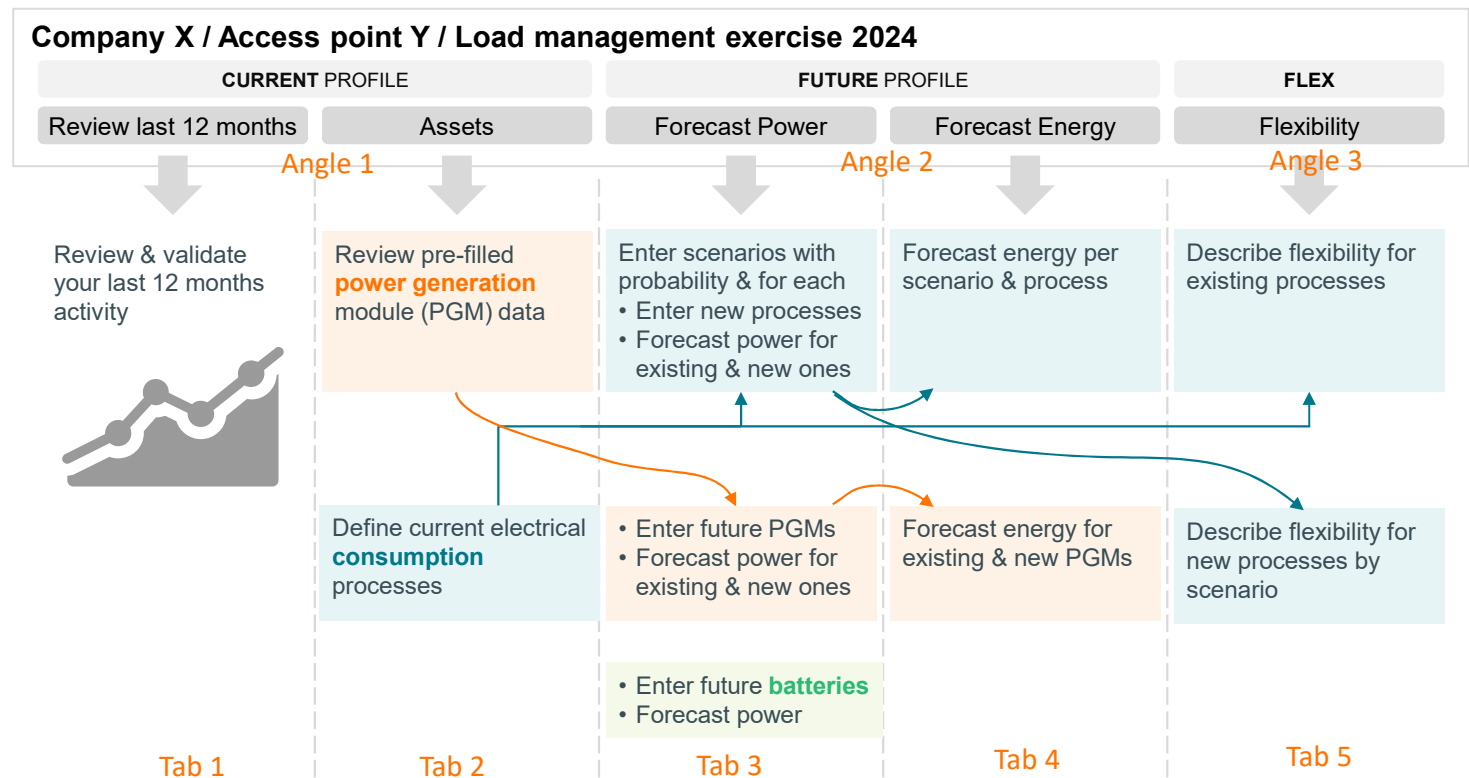
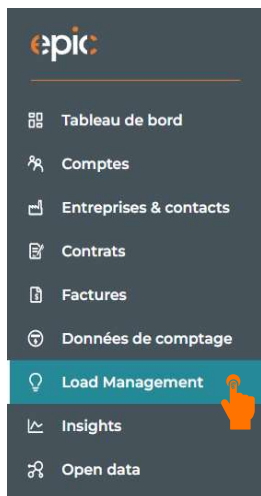
NEW - Load management open all-through the year



Already live



The load management tool : 5 tabs and 3 angles of view



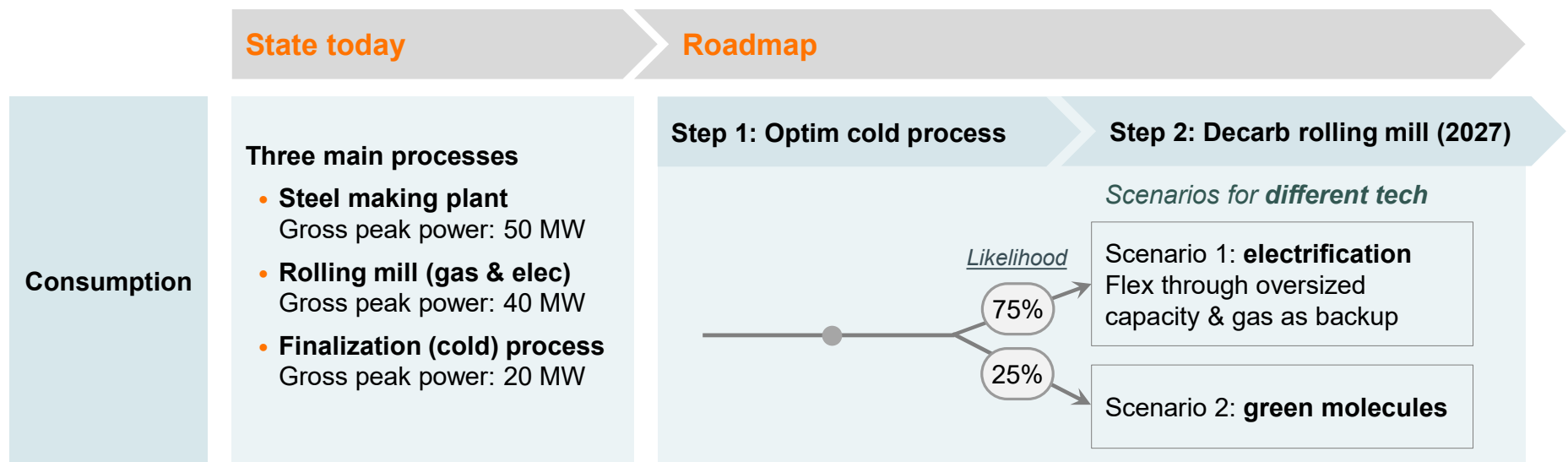
Rem : selection of tabs for secondary access points, new access points or generation

Already live



Example of use case : Decarbonization of steel plant

How to use the tool for my decarbonization plans ?



This is a fictitious example

Already live



Example of use case : Define my consumption assets

Company X / Load management exercise 2024

CURRENT PROFILE FUTURE PROFILE FLEX

Review last 12 months **Assets** Forecast Power Forecast Energy Flexibility

Consumption assets
Could you please describe your existing consumption assets ?

Name of asset	Type of process	Peak gross consumption power (MW)	Comment
Steel making plant	Electric Arc furnace	50,00	Comment
Rolling mill	Others	40,00	Mixed gas/elec oven
Finalisation process	Cold process	20,00	Comment

+ Add a consumption unit

Define three main electrical processes

- **Steel making plant**
Peak power: 50 MW
- **Rolling mill**
Peak power: 40 MW
- **Finalization (cold) process**
Peak power: 20 MW

This is a fictitious example

Example of use case : Introduce **power forecast** related to scenarios (1/2)

Already live



Company X / Load management exercise 2024

CURRENT PROFILE FUTURE PROFILE FLEX

Review last 12 months Assets Forecast Power Forecast Energy Flexibility

LOAD SCENARIO (MW) + Add scenario

Scenario 1 : Decarbonization of the rolling mill via € Probability of realisation (%) 75

Process name	Process type	Process status	Remarks	Study ref.	2024	2025	2026	2027	2028	2029
✓ Base gross consumption		Existing			110,00	110,00	100,00	100,00	100,00	100,00
	Rolling mill	Other			40,00	40,00	40,00	40,00	40,00	40,00
	Finalisation process	ColdProcess			20,00	20,00	10,00	10,00	10,00	10,00
	Steel making plant	ElectricArcFurnace			50,00	50,00	50,00	50,00	50,00	50,00
✗ Electrification €	Electric oven	New	Electrification €		MW	MW	MW	80,00	80,00	100,00
Future peak gross consumption ⓘ					110,00	110,00	100,00	180,00	180,00	200,00

Please describe your scenario (Key decision factor/Probability/Characteristics)

Scenario 1: **electrification**
Flex through oversized capacity & gas as backup

Define scenario

Optimisation of process (step 1)

Add new process for electrification (step 2)

Describe scenario

↓ See next slide for second scenario

This is a fictitious example

Example of use case : Introduce **power forecast** related to scenarios (2/2)

Already live



Company X / Load management exercise 2024

CURRENT PROFILE FUTURE PROFILE FLEX

Review last 12 months Assets Forecast Power Forecast Energy Flexibility

Scenario 2 : Decarbonization Rolling mill via Molec Probability of realisation (%) 25

Process name	Process type	Process status	Remarks	Study ref.	2024	2025	2026	2027	2028	2029
Base gross consumption		Existing			110,00	110,00	100,00	100,00	100,00	100,00
	Steel making plant	ElectricArcFurnace			50,00	50,00	50,00	50,00	50,00	50,00
	Finalisation process	ColdProcess			20,00	20,00	10,00	10,00	10,00	10,00
	Rolling mill	Other			40,00	40,00	40,00	40,00	40,00	40,00
Molecule pump	Pump	New	Molecule pump		MW	MW	MW	MW	20,00	20,00
Future peak gross consumption ⓘ					110,00	110,00	100,00	100,00	120,00	120,00

+ Add process

Please describe your scenario (Key decision factor/Probability/Characteristics)

Scenario 2: green molecules

Define scenario

Optimisation of process (step 1)

Add new processes for the molecule pump (step 2)

Describe scenario

This is a fictitious example

Already live



Example of use case : Introduce energy forecast related to scenarios

Scenario 1: **electrification**
Flex through oversized capacity & gas as backup

Company X / Load management exercise 2024

CURRENT PROFILE FUTURE PROFILE FLEX

Review last 12 months Assets Forecast Power Forecast Energy Flexibility

LOAD SCENARIO (GWH) + Add scenario

Scenario 1: Decarbonization of the rolling mill via € Probability of realisation (%) 75

Process name	Process type	Process status	Remarks	Study ref.	2024	2025	2026	2027	2028	2029
Base gross consumption		Existing			50,00	50,00	45,00	45,00	45,00	45,00
	Rolling mill	Other			15,00	15,00	15,00	15,00	15,00	15,00
	Finalisation process	ColdProcess			10,00	10,00	5,00	5,00	5,00	5,00
	Steel making plant	ElectricArcFurnace			25,00	25,00	25,00	25,00	25,00	25,00
Electrification c	Electric oven	New	Electrification c		GWh	GWh	GWh	25,00	25,00	25,00
Future gross consumption					50,00	50,00	45,00	70,00	70,00	70,00

Please describe your scenario (Key decision factor/Probability/Characteristics)

Define scenario

Optimisation of process (step 1)

Add new process for electrification (step 2)

Describe scenario

This is a fictitious example

Insights on PPAD forecast in EPIC

Live since the week of
16th of December



Summary effective costs

December 2023 - December 2024

PPAD cost: 131.654,91 €
Penalty cost: 0,00 €
Total cost: 131.654,91 €

[Show details](#)

Simulated costs

By changing your PPAD(kVA)

December 2023 - December 2024

PPAD cost: 118.602,63 €
Penalty cost: 7.215,96 €
Total cost: 125.818,59 €

Potential savings: **5.836,32 €**

[Show details](#)

Next 12 months Peak estimation

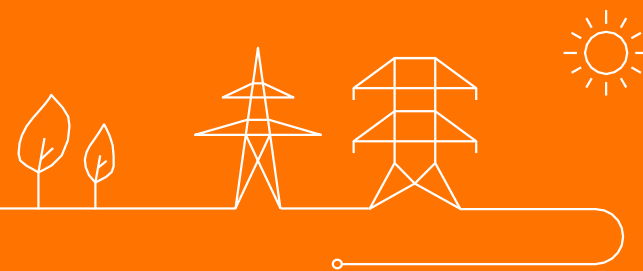
M	Dec 2024	15290 kVA	✎
M + 1	Jan 2025	15290 kVA	✎
M + 2	Feb 2025	14700 kVA	✎
M + 3	Mar 2025	14700 kVA	✎
M + 4	Apr 2025	14700 kVA	✎
M + 5	May 2025	14700 kVA	✎
M + 6	Jun 2025	14700 kVA	✎
M + 7	Jul 2025	14570 kVA	✎
M + 8	Aug 2025	13820 kVA	✎
M + 9	Sep 2025	13820 kVA	✎
M + 10	Oct 2025	12990 kVA	✎

- ✓ Forecast of peak PPAD based on historical values
- ✓ Possibility to edit peak PPAD
- ✓ Calculation of PPAD costs, penalties and potential savings

This is a fictitious example

Wrap-up

Roadmap digitalization Grid Users



Roadmap digitalization Grid Users

2024

2025



The screenshot displays the EPIC dashboard interface. On the left is a dark sidebar with navigation items: Dashboard, Accounts, Companies & contacts, Contracts, Studies & projects, Invoices, Metering data, Load Management, Insights, and Open data. The main content area is titled "Overview of your services" and contains several service cards:

- Accounts**: No buttons.
- Companies**: "Contacts improvements" (2024).
- Contracts**: "Connection annexes" (2025).
- Studies & projects** (highlighted with a red box): "Studies overview" (2024) and "Studies requests" (2025).
- Invoices**: No buttons.
- Metering data**: "nRT GU metering" (2024) and "nRT ACH metering" (2025).
- Load Management**: "Scenarios & flexibility" (2024).
- Insights** (marked "New"): "PPAD forecast" (2024) and "Reactive power" (2025).
- Open Data**: "OpenDataElia" logo.
- Visit our website**: elia logo.
- Your services via API** (highlighted with a red box): "traXes" logo, "nRT API GU metering" (2024), and "nRT API ACH metering" (2025).

On the right side, there is a "Need some help?" section with a user profile "Manuel Aparicio" and a "New feature on EPIC" section titled "Sustainability Insights (Beta)". This section describes a feature to discover electricity consumption sources and CO2 emissions in real-time. A link "Go to Sustainability Insights" is provided.

At the bottom right, there is a decorative graphic of a power line with a sun and trees.

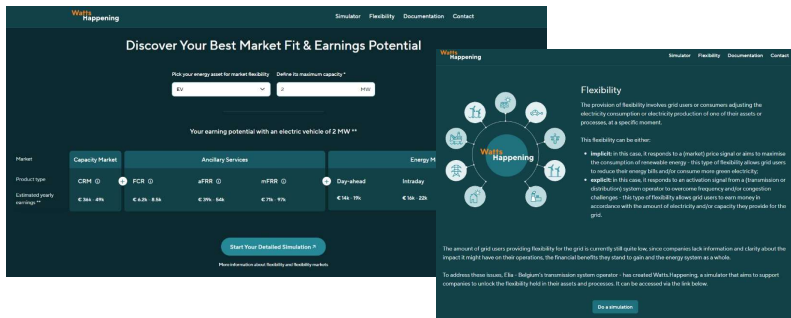
Watts.happening

Estimate your potential flexibility



Watts.happening, informing you on the value of the potential flexibility in your assets and processes

Watts.happening - Monetise your power portfolio



- Better understand what is flexibility
- The different products offered by Elia to valorize this flexibility
- Estimate the value of the potential flexibility
- Get to know potential partners

1300+ visitors since 2023
(200 in past 30d)

4000+ Session since 2023
(460 in past 30d)

- Market value simulation for CRM, FCR, aFrr, mFrr and **now also Day ahead, intraday and imbalances markets**
- **Updated calculation period: May 2023 to April 2024**
- Improved experience with among others:
 - A **quick estimation tool**, providing average values for each asset type
 - A **more user friendly simulation tool**

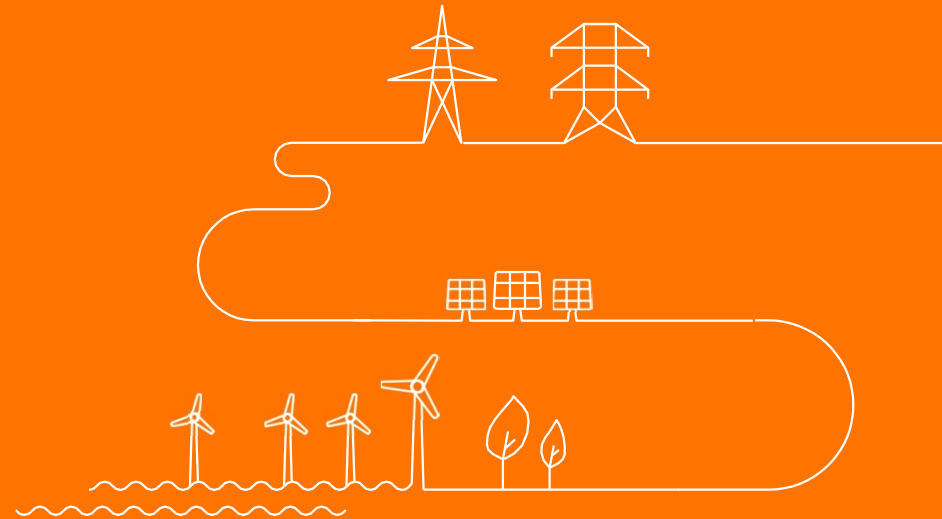
2024

2025

- **Thematic (asset specific) case studies** of companies discovering and unlocking and leveraging the value of their flexibility
- **Improved matching** of Flex owners with Flex valorizers (BSP/BRP) and flex unlockers (aggregators, ESPs, etc.)
- **EV Flexibility** content to help the growing sector live to its potential
- **Support and engagement** campaigns to raise awareness and knowledge of the market



Thank you.



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1. WGBG dates 2025 & invitation format



GUFlex – roadmap 2025

Anna Tsiokanos



Recap workshop of 15/11 : ST and LT vision for congestion management



What we have done so far

- We provided increased **transparency** regarding the **methodology** for **client connection studies** and flexibility **activations**
- We proposed a design with a **balanced approach between risks for grid users and harmonious development of the grid** :
 - **right incentives** by letting the GU with flex access bear the costs up to the applicable caps in order to avoid unharmonious development of the grid
 - **firm guarantees** (cap in volume, duration and price) allowing GU with flexible access to take appropriate decisions for their business case
- Key limitation is the RT character of the flex access activations: more appropriate for **RES, production& storage** than **demand**
- Still design elements that need to be further finetuned



We foresee **2 main track** for evolutions in the future



Continue evolution of the ST target
Industrialized flex access for customers waiting for grid reinforcement

- ✓ *for all technologies*
- ✓ *For all regions*

This will include, amongst others:

- The **impact** on the **BSP** and **CRM** in case of flexibility activations
- The management of **mixed sites** (baselining, how to treat the signal amongst the different Delivery Points)
- The exploration of products activated before RT (preceded by POCs)...
- The **extension of design** in regional grids with (where necessary) a harmonization of all regulations
- ...

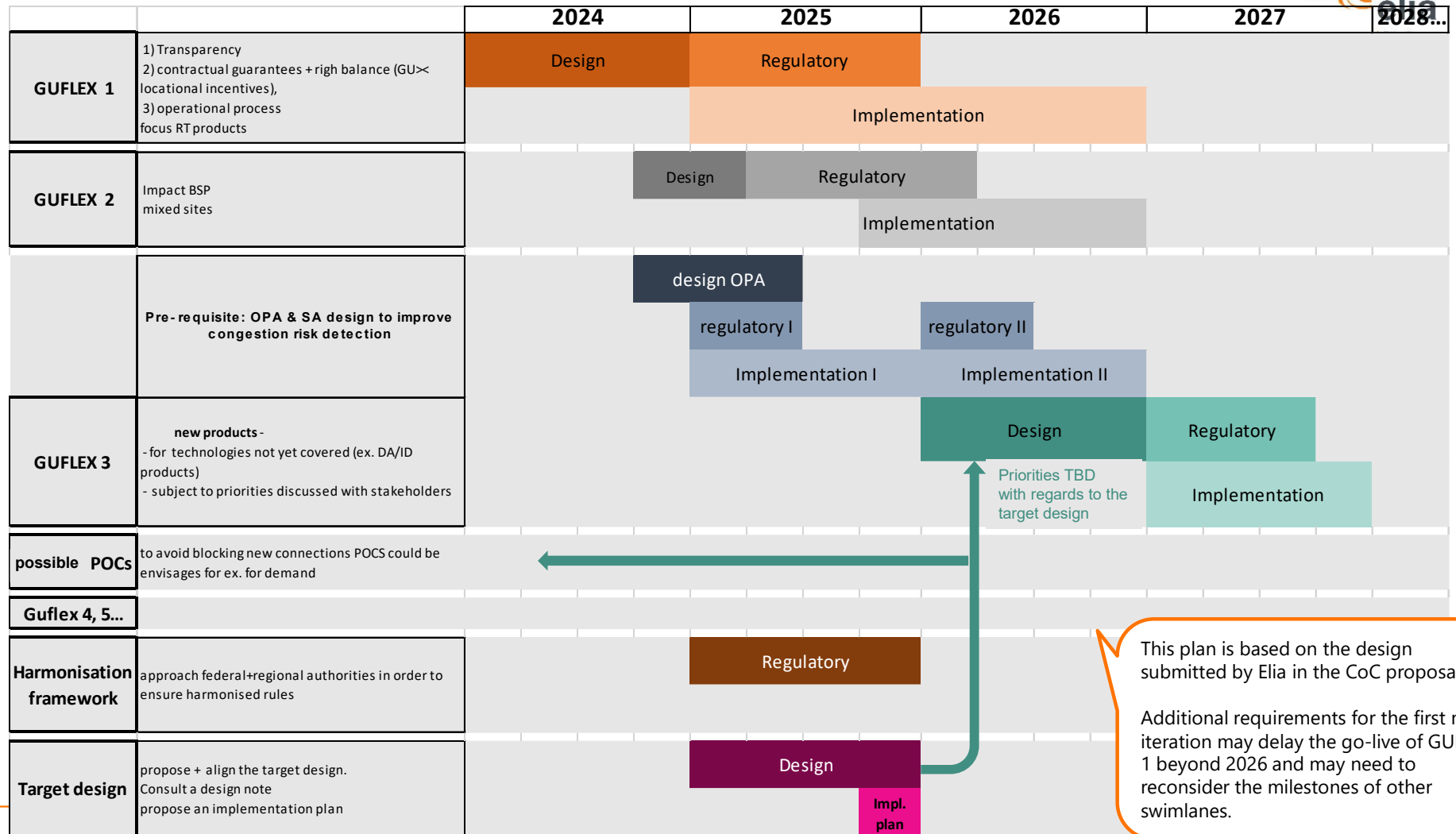


Launch LT Target: *optimal use of flexibility from Grid Users*

- ✓ *from grid planning* (trade off between flexibility & infrastructure)
- ✓ *to operations* (optimal merit order)
- ✓ *with a consistent set of products* (RT → <DA for flex & firm access)

- Allows to avoid over-building the grid, cutting the tail of the grid-investment need uncertainties thanks to flexibility
- Societal optimum in operations by using the cheapest flexibility
- ⚠ Requires an important paradigm shift with, several design challenges and a high implementation impact

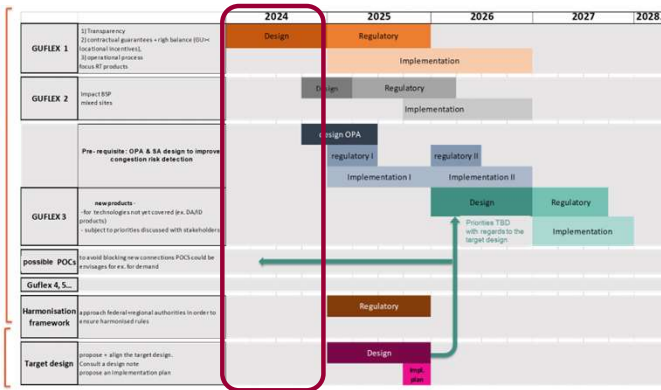
Recap workshop of 15/11 : Roadmap towards ST and LT vision



This plan is based on the design submitted by Elia in the CoC proposal.

Additional requirements for the first next iteration may delay the go-live of GUFlex 1 beyond 2026 and may need to reconsider the milestones of other swimlanes.

What has been done in 2024



GUFlex 1

- ❑ Grid Study Methodology
 - ✓ Transparency and improvements on methodology
 - ✓ Template of study results
 - ✓ Grid Study Methodology will be published by end of 2024

- ❑ Improved EOS/EDS & capacity reservation process

- ❑ Definition of contractual guarantees for the GU
 - ✓ cap on volume, duration and imbalance price exposure
 - ✓ Definition of settlement principles (baseline...)

- ❑ Operational principles

- ❑ Reporting and Monitoring

⇒ **Design Note + Proposal for a CoC**

GUFlex 2

- ❑ First design elements on mixed sites
- ❑ First design elements on BSP

Harmonisation

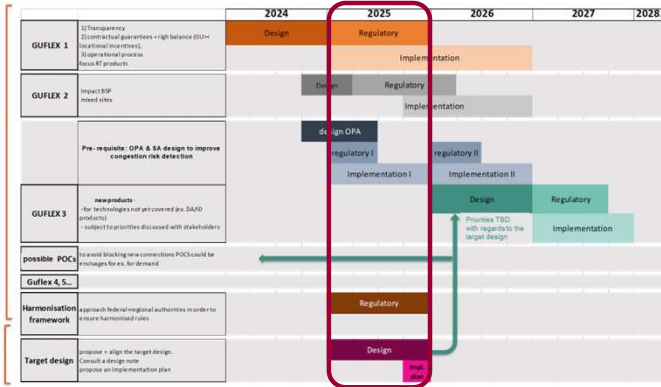
- ❑ Initiation of discussions with Regional Authorities

LT Target

- ❑ HL Vision
- ❑ Identification of necessary prerequisites & analyses



Work ahead of us - part 1



GUFlex 1

- Impact analysis CoC & design finetuning

- Design fine-tunings & Public documents

- ✓ Bank Deposit (in WG grid)
- ✓ Baseline Note
- ✓ Revision process related to grid study methodology (in TF scenarios)

- **3 to 6 Regulated documents**

- ✓ Connection Contract
- ✓ Coordination Rules
- ✓ T&C BRP
- ✓ Other (e.g. T&C BSP)

GUFlex 2

- Design for mixed sites
- Mitigation principles BSP
- Mitigation principles CRM

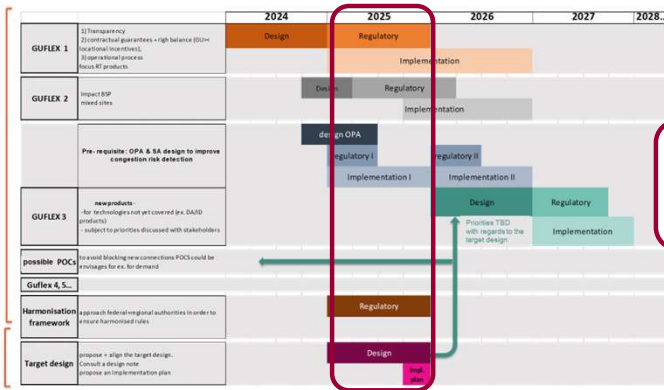
GUFlex 3

- Possible POCs (exact number of cases and complexity can vary)

Harmonization

- ☀
- Transposition of EMDR in regional legislation
- Collaboration with DSOs and regional regulators

Work ahead of us - part 2



Optimal usage of flex in
Grid planning

Optimal usage of flex in
operations

LT Target

Consistent set of
products able to use all
existing flexibility

- ❑ Methodology flex vs grid reinforcements
 - ❑ Boundaries
 - ❑ Definition future scenarios

Market Design considerations:

- ❑ Reconsider remuneration modalities for a future where there is “INC-DEC gaming” paradox
- ❑ Costs reallocation methodology

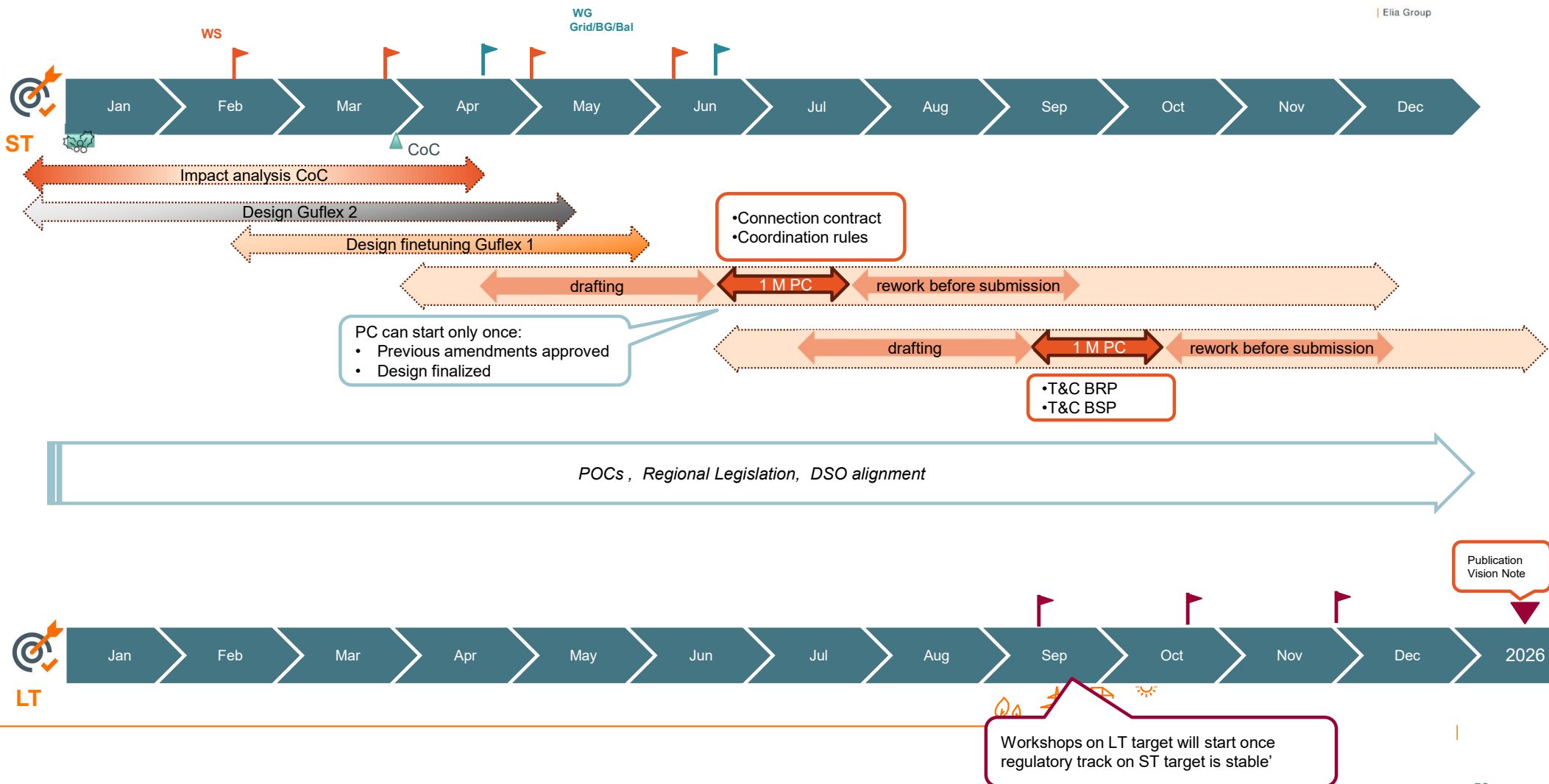
Operational prerequisites

- ❑ RAO & operational processes
- ❑ OPA SA data improvement (iCAROS)

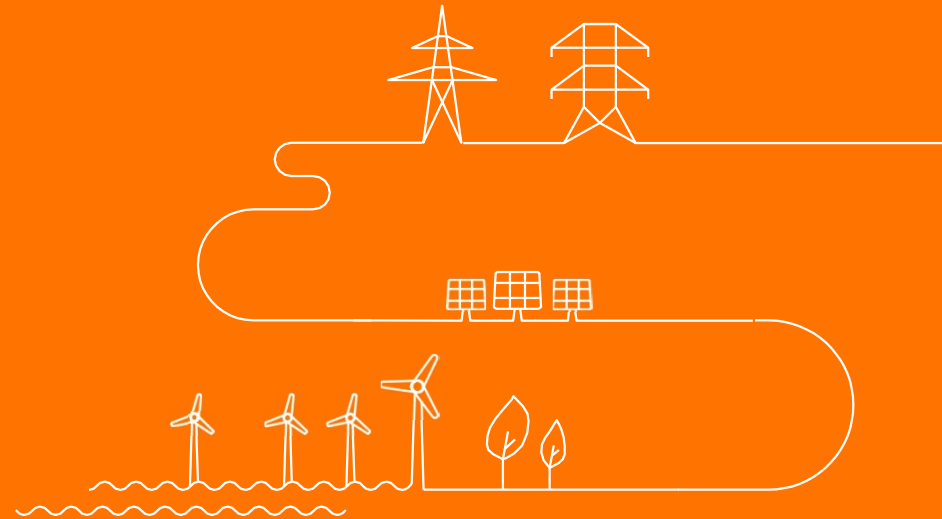
Product design

- ❑ Separate financial & technical modalities of flex. access
- ❑ Define new congestion products (link wit ICAROS)
 - ❑ all timeframes
 - ❑ all technologies

Indicative Planning 2025



Thank you.



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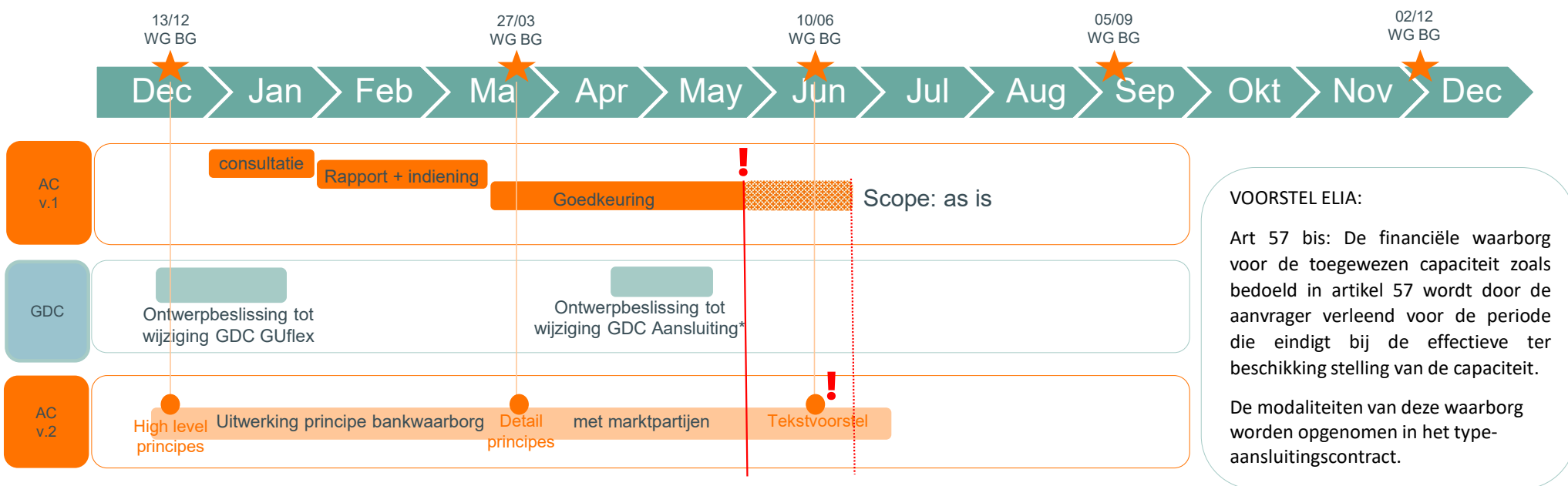
Bankwaarborg

Cindy Bastiaensens



Capaciteitsallocatie - Bankwaarborg

Ambitie: Integratie van het principe, voorwaarden en procedures in v.2 van het aansluitingscontract (samen met principes van GUFlex)



VOORSTEL ELIA:

Art 57 bis: De financiële waarborg voor de toegewezen capaciteit zoals bedoeld in artikel 57 wordt door de aanvrager verleend voor de periode die eindigt bij de effectieve ter beschikking stelling van de capaciteit.

De modaliteiten van deze waarborg worden opgenomen in het type-aansluitingscontract.

! Afhankelijk van goedkeuring v.1



* Aanname Elia op basis van input CREG in ontwerpbeslissing tot wijziging GDC GUFlex – “CREG zal hier begin 2025 werk van maken”

Capaciteitsallocatie - Bankwaarborg

AS IS: there is no payment for the reservation or allocation of the relevant capacity before the related access point comes effectively in service and the allocated capacity is invoiced based on the tariff for Power Put At Disposal (PPAD).

Elia propose to request a bank deposit that has to be paid by the (candidate) Grid User as from the ordering of the realization.

Original suggestion (design note)

Amount of the deposit = Number of years x MVA x yearly tariff PPAD

1. If the connection commissioning happens as planned the Grid User is reimbursed for the amounts blocked and the tariff for PPAD is applied.
2. If the realization is abandoned, Elia keeps from the bank deposit the yearly bank deposit amount for the number of years the capacity has been unduly blocked. The rest is reimbursed.
3. If the project is realized but delayed, Elia keeps the yearly bank deposit amount for each full year of delay and reimburses the rest

Formula: open
for discussion



Capaciteitsallocatie - Bankwaarborg

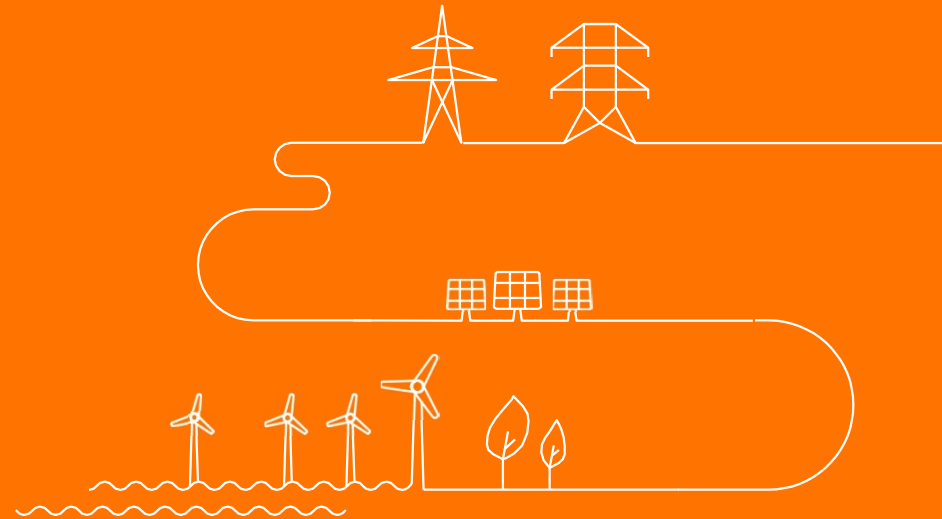
Formula: open
for discussion

Based on comments on design note - discussion in WG BG 28/8

- ❑ Follow-up by milestones as alternative for bank deposit: partly covered by new connection contract
- ❑ Need to adapt the formula (too high)
 - ❑ No link with # years (# often determined by time to realize the connection) -> covers stop, not delay
 - ❑ No double bank guarantee (CRM, PEZ)
 - ❑ For storage: no 'double' capacity
 - ❑ No link with PPAD f.e. no PPAD for injection
- ➔ Fixed amount / MVA : 20k€ (//CRM) or lower 10k€ (suggested 28/8)



Thank you.



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1. WGBG dates 2025 & invitation format





AB 00

Hosting Capacity Map

Status December 2024

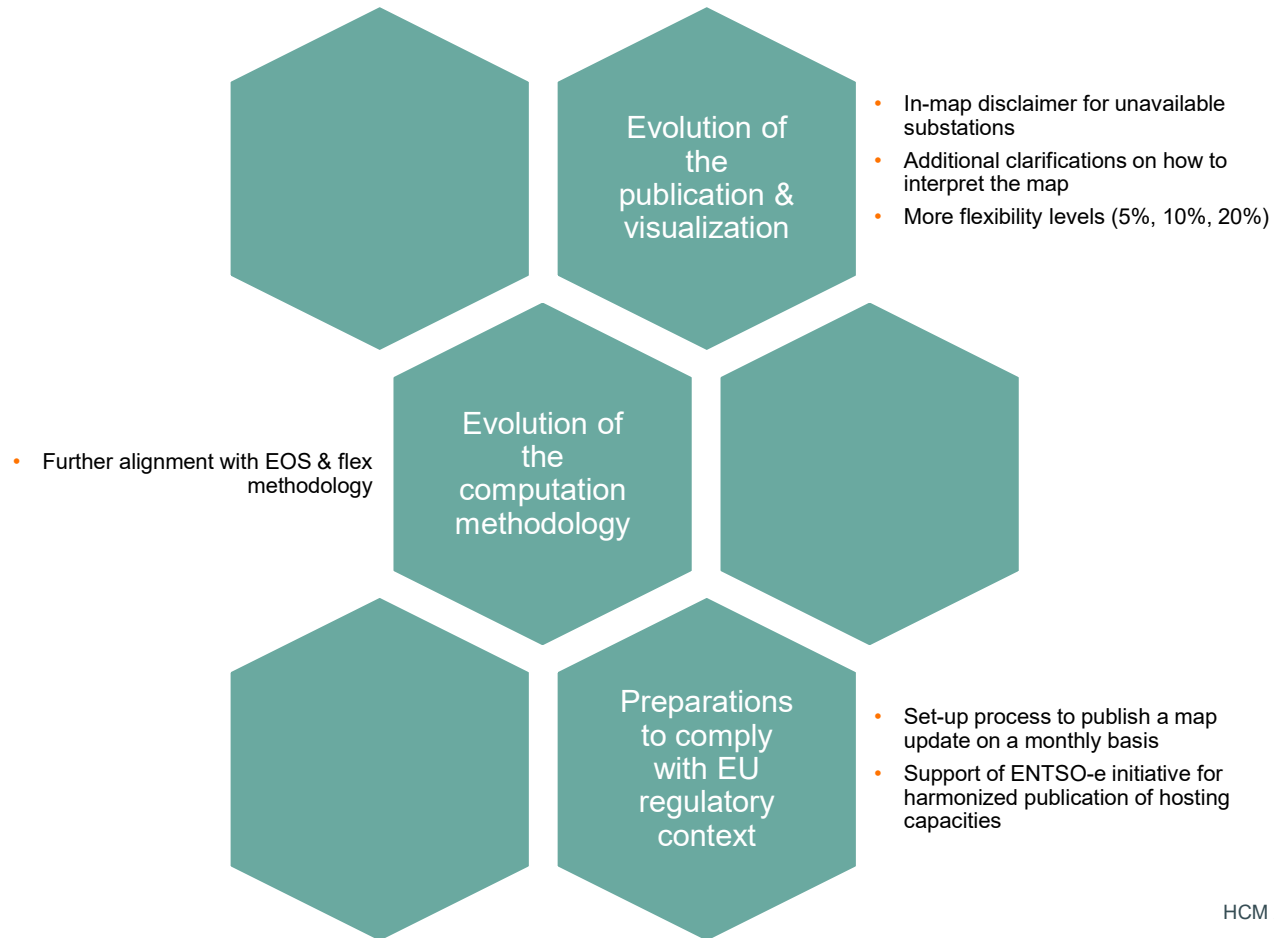
13/12/2024 | Igor Verbruggen & Jonathan Sprooten



Agenda

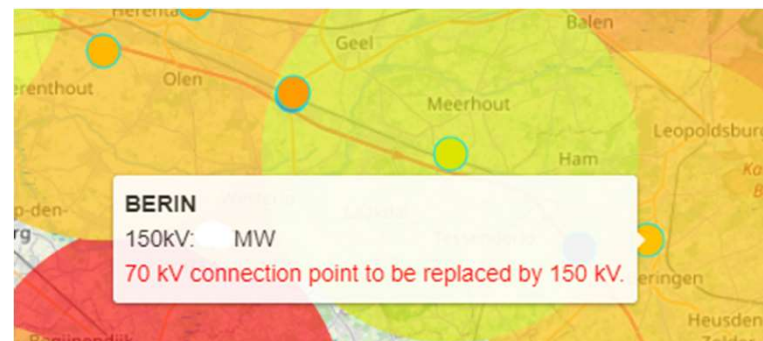
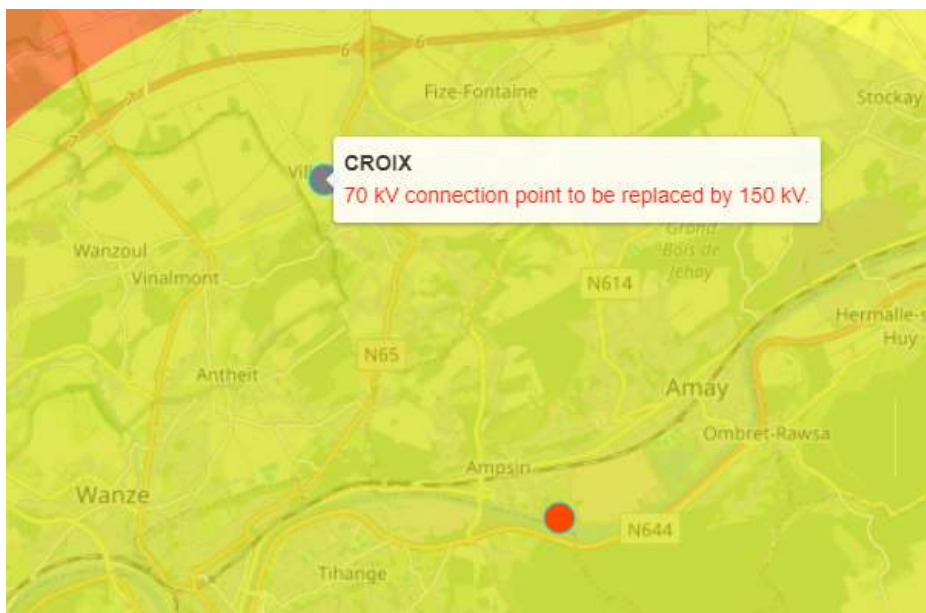
- Reminder: Proposed changes for 2024
- Planned changes for end 2025
- Timeline
- Expected results

Planned changes for end 2025

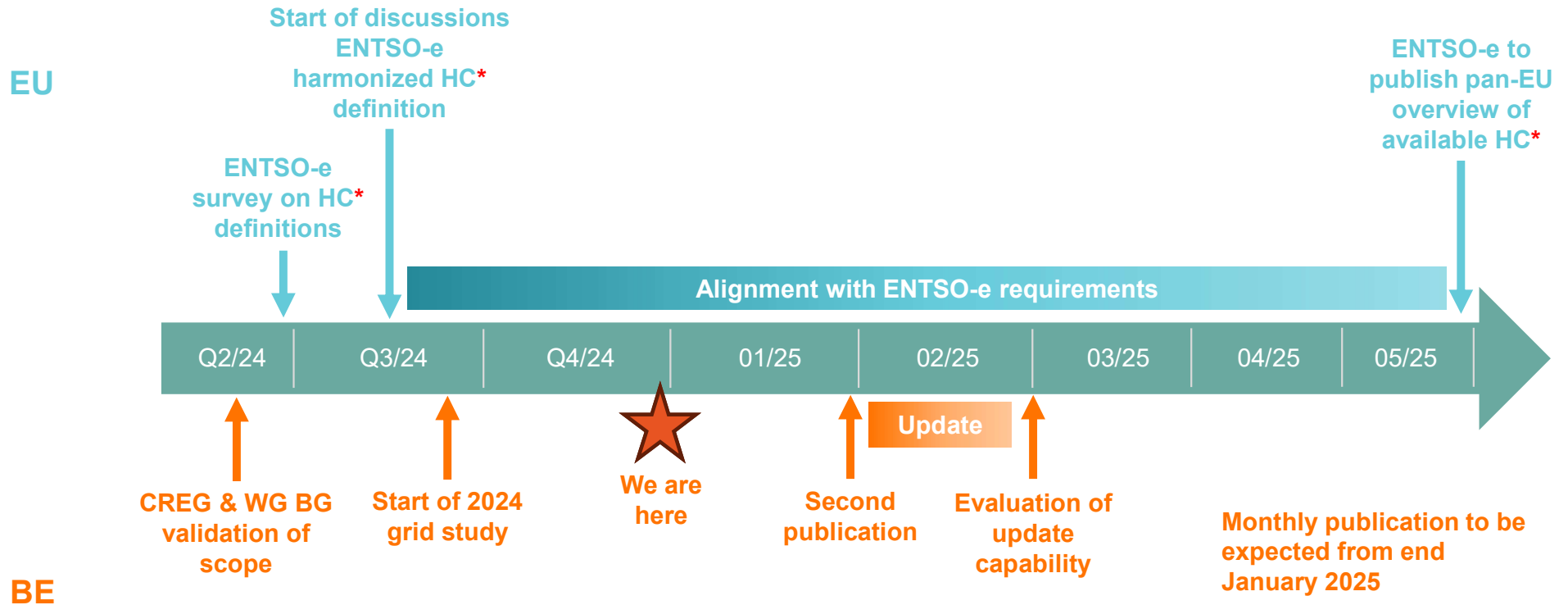


Planned changes for end 2025

Unavailable substations will be shown with an explaining note



Short-term timeline Hosting Capacity Map



*HC = Hosting Capacity

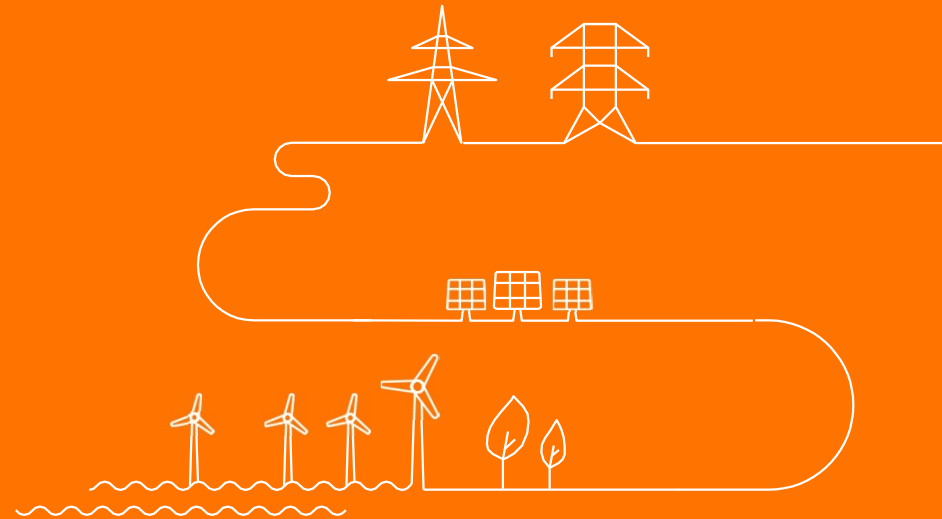


Expected results by end of January 2025

- In 2024, Elia saw a very high number of new reserved and allocated capacities which will have an impact on the remaining hosting capacities.
- The HCM will be published for different time horizons
 - 2027
 - 2031 (situation after commissioning Ventilus & Boucle du Hainaut)
- In addition to the hosting capacity map, Elia will provide information about the quantity of reserved and allocated capacities, the existing capacities as well as a comparison with the capacities considered in the scenarios of evolution of the Belgian energy mix (e.g. Adequacy and Flexibility scenario)



Thank you.



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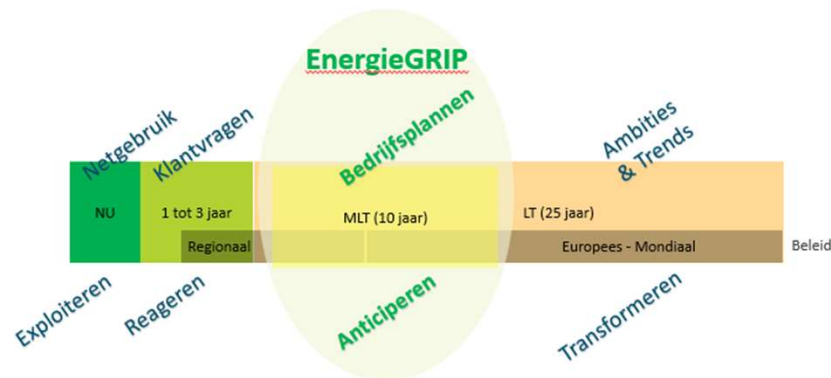


FULLY CHARGED FOR CHANGE

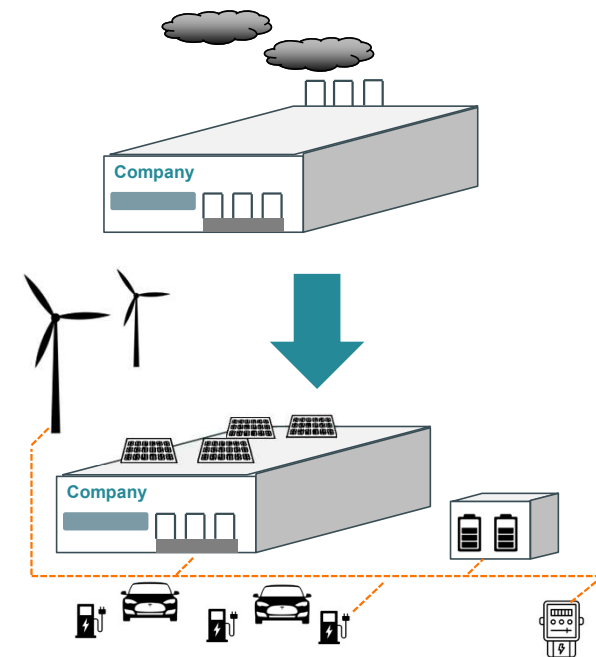
Users Group
13/12/2024

De energie transitie brengt veel vragen met zich mee voor zowel bedrijven als netbeheerders

Netbeheerders willen klantenvragen anticiperen en het elektriciteitsnetwerk zo goed mogelijk voorbereiden



Bedrijven willen maatregelen nemen in functie van economisch voordeel en fiscaliteit en/of om EU of lokale doelstellingen te volgen



Verskil in timing tussen uitbouw infrastructuur (+/- 10 jaar) en investeringsplannen van bedrijven (+/- 3 jaar)



Waar start de decarbonisatie van mijn bedrijf? Met welke assets? Hoe ver kan ik gaan? Wat zal het kosten?



Samen anticiperen op de energietransitie van de Vlaamse industrie





Elektrificatie

- Beperken CO2-uitstoot
- Toename in elektriciteitsverbruik
- Anticiperen op de versterking en uitbreiding van het energienetwerk
- Alles aan een zo laag mogelijke kost voor de samenleving

Uitdaging



EnergieGRIP

- Digitaal platform om lokale data over energie verbruik en transitie te **captureren**
- **Bottom-up data** inzichten

Oplossing



Fase 1

- PoC EnergieGRIP in regio **Bornem** Juni – September
- Business traject voor **lange termijn ambitie** (IT, legal governance, financieel) samen met Athumi
- Enprove **desktop studie**

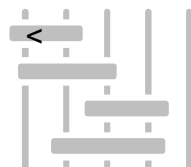
Try out

EnergieGRIP is een win-win voor iedereen



Richting bepalen en kenbaar maken

Een intern afgestemd energietransitie plan voor doelgerichte investeringen en het kenbaar maken van maatschappelijke noden.



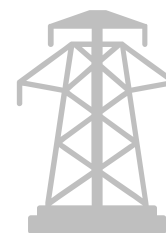
Op tijd geconnecteerd

Hogere zekerheid op beschikbaarheid van netcapaciteit voor de decarbonisatie of nieuwe toepassingen.



Leverbetrouwbaarheid

Verhoog de energiezekerheid door een beter inschatting. Voorbeeld: calibratie van CRM met betere prognoses.



Beperk nettarief

Beperkt de netkosten door een gepaste netinvestering, op de juiste plaats en op het juiste tijdstip toe te laten.



Beperk energiekost

Alternatieve oplossingen zoals eigen productie, opslag en flexibiliteit bieden opportuniteiten om de energierekening te beperken.

Le Plan de Puissance

- Pourquoi?
- Pour quel résultat?
- Comment il s'articule?



Le Plan de Puissance

Pourquoi un plan de puissance ?

- **Identifier les besoins** en énergies de la Wallonie liés aux enjeux climatiques
- **Accompagner le développement industriel** de la Wallonie

- Deux aspects fondamentaux :



La temporalité

« Qu'est-ce qui doit être disponible quand ? »



La localisation

« Qu'est-ce qui doit être disponible où ? »

Les gestionnaires de réseaux gaz et électricité au travers d'une démarche commune souhaite délivrer une vision globale multi énergies à court, moyen et long termes, cela avec le soutien des ADTs et du Gouvernement Wallon.



Le Plan de Puissance

Comment s'articule le plan de puissance ?



2024		2025				2026	
Q4	Q1	Q2	Q3	Q4	Q1	...	

Phase 1 - Communication

Objectif : **communiquer** sur la démarche

- Elle s'articule autour d'Events Clients sur l'ensemble de la Wallonie

Phase 2 - Collecte

Objectif : vous solliciter afin d'exprimer **vos besoins en énergie** sur les 15 années à venir

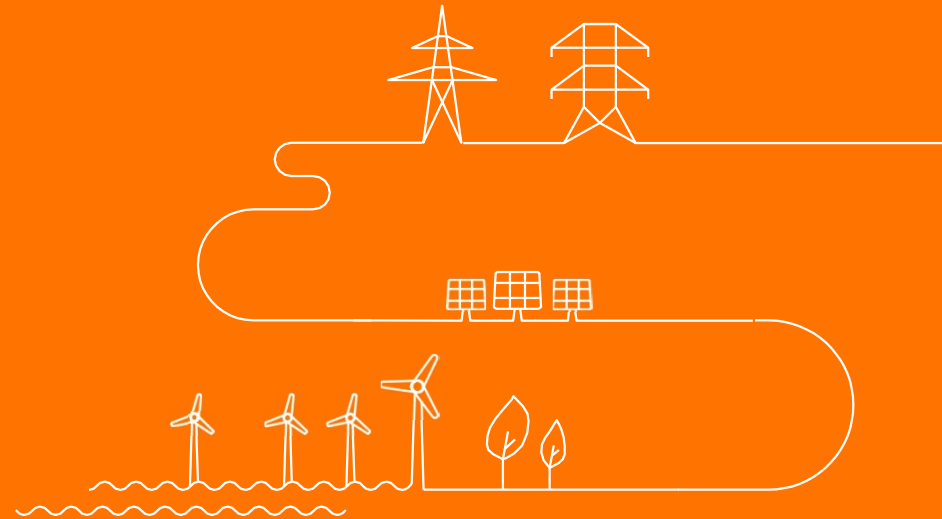
- Cette phase prend toute son importance avec votre mobilisation
- Il est important que vous soyez au rendez-vous et que vous exprimiez au mieux vos besoins

Phase 3 - analyse et intégration

Objectif: analyse et **intégration progressive des informations** dans les plans d'investissements respectifs en coordination entre Gestionnaires de réseaux



Thank you.



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Liability Regime

Evolution des clauses de responsabilité

- Alignment avec la CREG sur le futur des clauses de responsabilité
- Harmonisation des clauses de responsabilité à plusieurs contrats régulés
- Nécessité d'adapter les montants aux évolutions du marché

Clauses de responsabilité - Overview

Cf. exercice d'harmonisation

=> Le lieu de l'incident ne doit pas avoir d'impact sur l'utilisateur du réseau

=>dispositions similaires

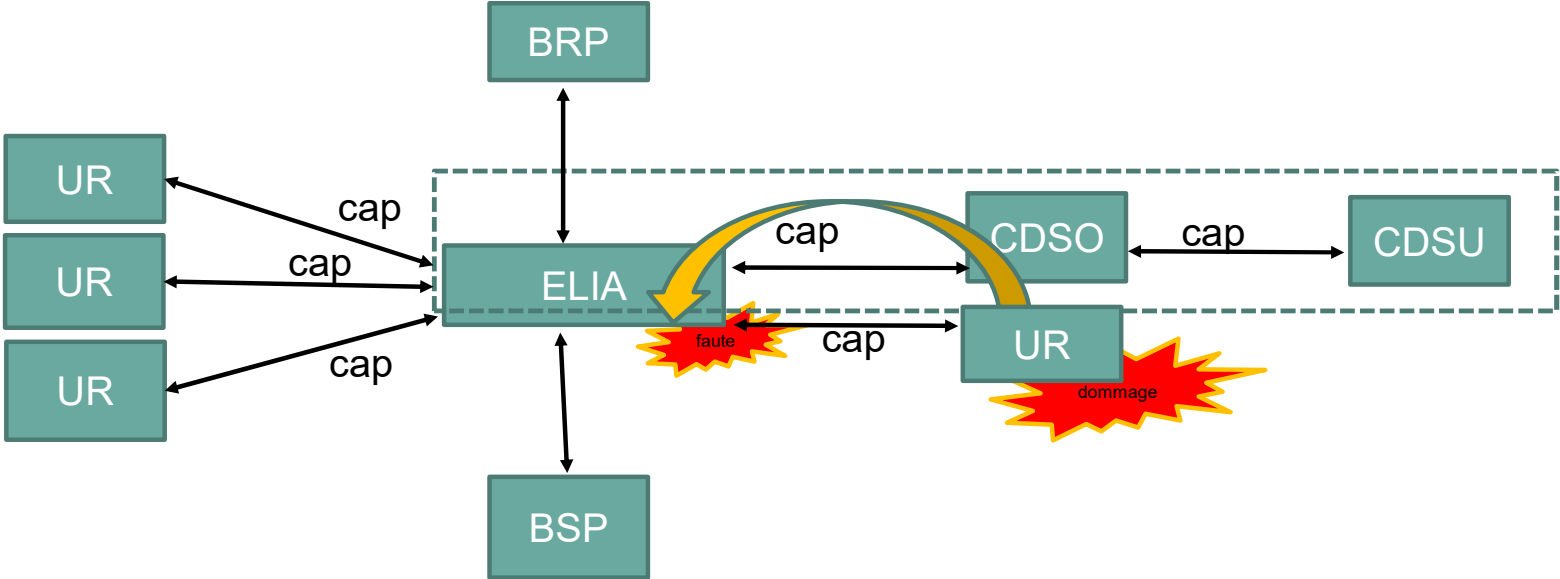
=> Caractéristiques:

- Obligation de limitation des dommages
- Date limite pour la déclaration des réclamations
- Principe d'indexation
- Pas de régime différencié faute moyenne-grave ; Notion d'événement dommageable
- Indemnisation limitée aux dommages directs (matériels et physiques)
- Plafond à la rupture : 300 => 3000€/MWh
- Plafonnement des autres sinistres => 6000€/MW
- Plafond total par sinistre et par an (2,5 M/(global) 5 M)
- Les limitations ne s'appliquent pas en cas de faute intentionnelle ou de fraude
- **Limitations de responsabilité au profit et à l'encontre d'autres UR (en cas de dommages causés à ou par d'autres UR, y compris leurs préposés)**
- Effet des limitations dans les contrats entre NG et les utilisateurs sous-jacents (de par la continuation (doorwerking) des clauses)

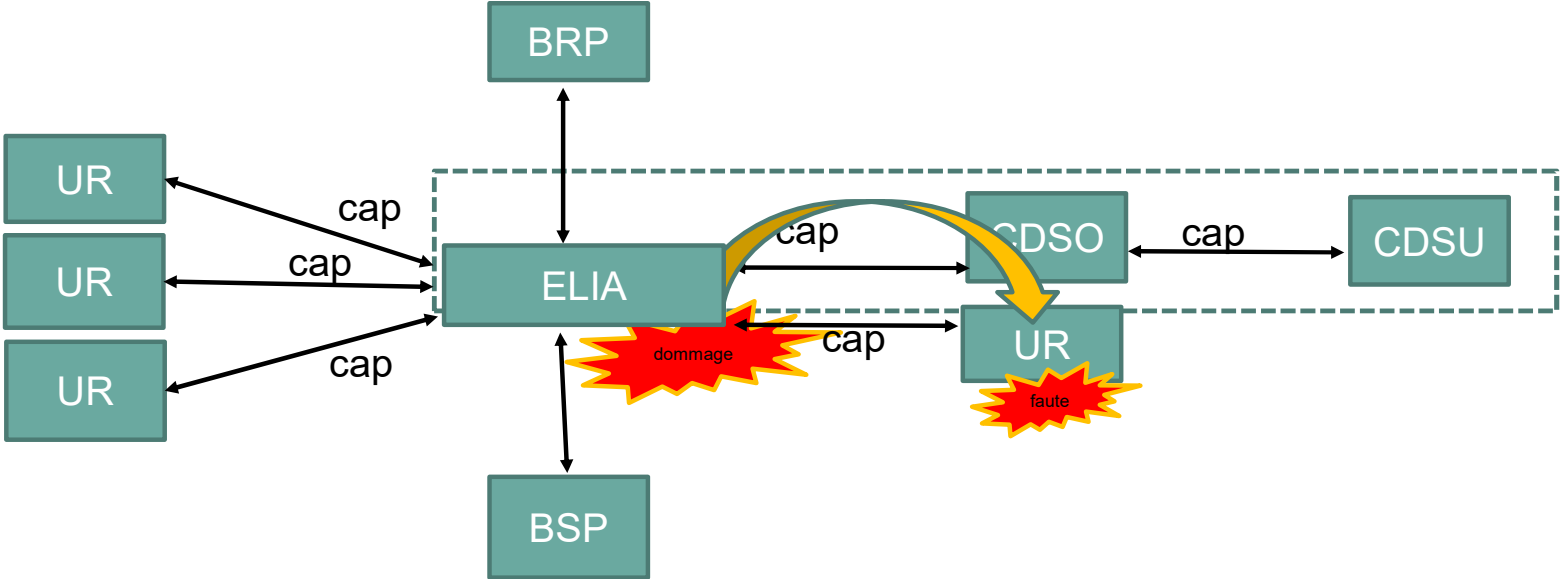
Quid relations indirectes?

- Avec le nouveau code civil, la théorie de la quasi-immunité de l'agent d'exécution ne s'applique plus.
- Au contraire, le code civil – de droit supplétif – permet de dévier des principes:
 - ⇒ le contrat vise à obtenir le même effet en travaillant avec la stipulation pour autrui (*qui protège l'autre UR contre un claim du co-contractant*).
 - ⇒ un pas en plus: stipulation à l'encontre d'autrui (*qui limite le claim de cet autre UR contre le co-contractant et protège donc le co-contractant*)
- Donc la stipulation pour et à l'encontre d'autrui dépasse la seule relation Elia - co-contractant et étend l'application des limitations au-delà de cette relation.
- Nécessité de 'continuation' (doorwerking) et de garantie
- Avantages: assurabilité, meilleure gestion des risques et des inconnus.
- Condition: harmonisation des clauses de responsabilité (transparence !)

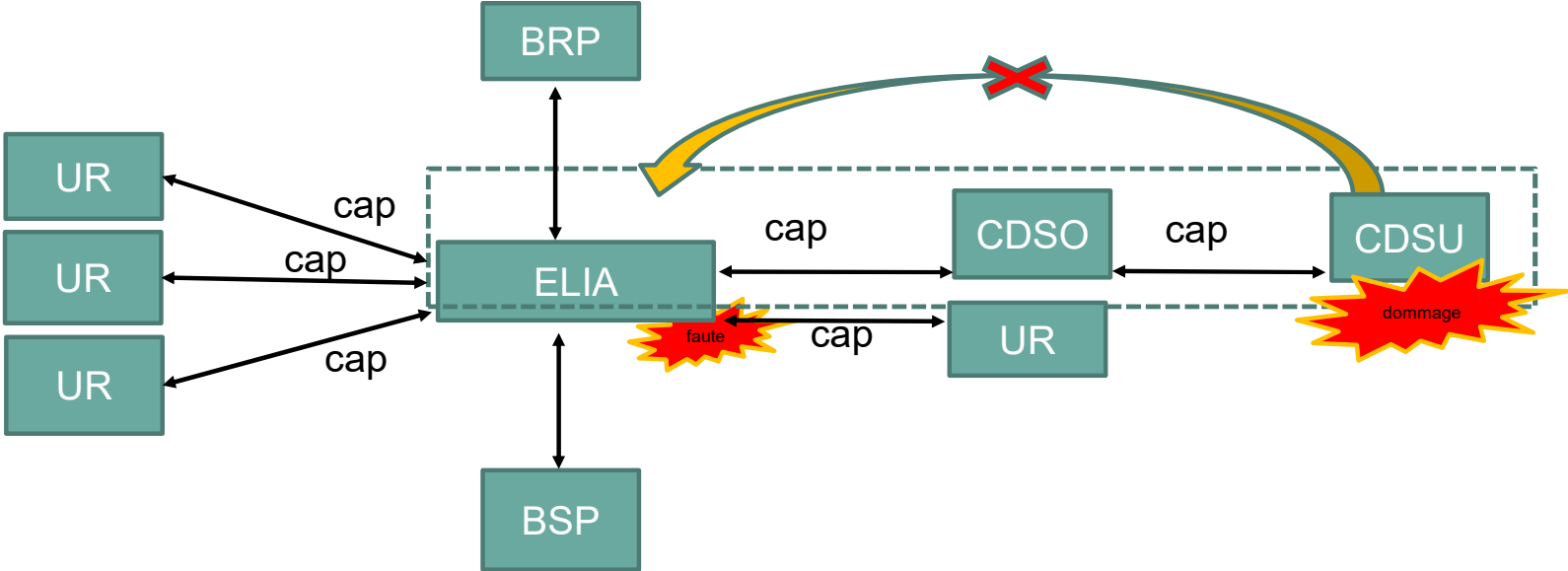
Relations contractuelles (raccordement)



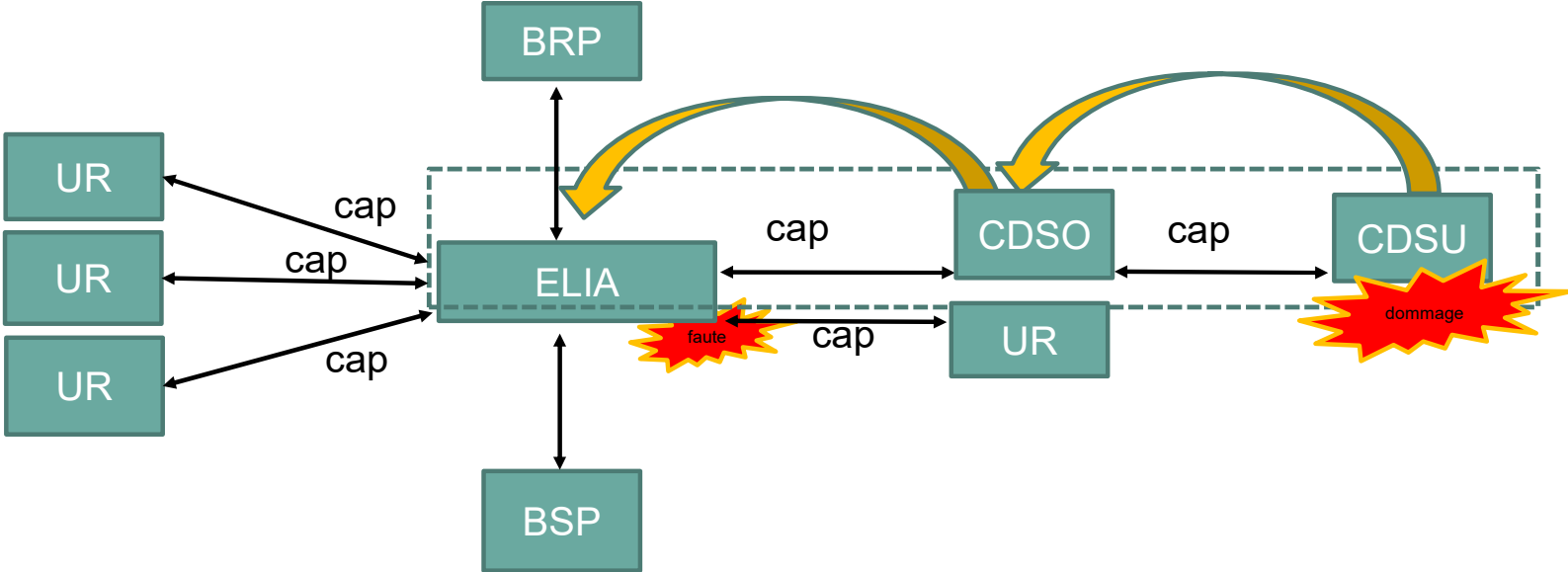
Relations contractuelles (raccordement)



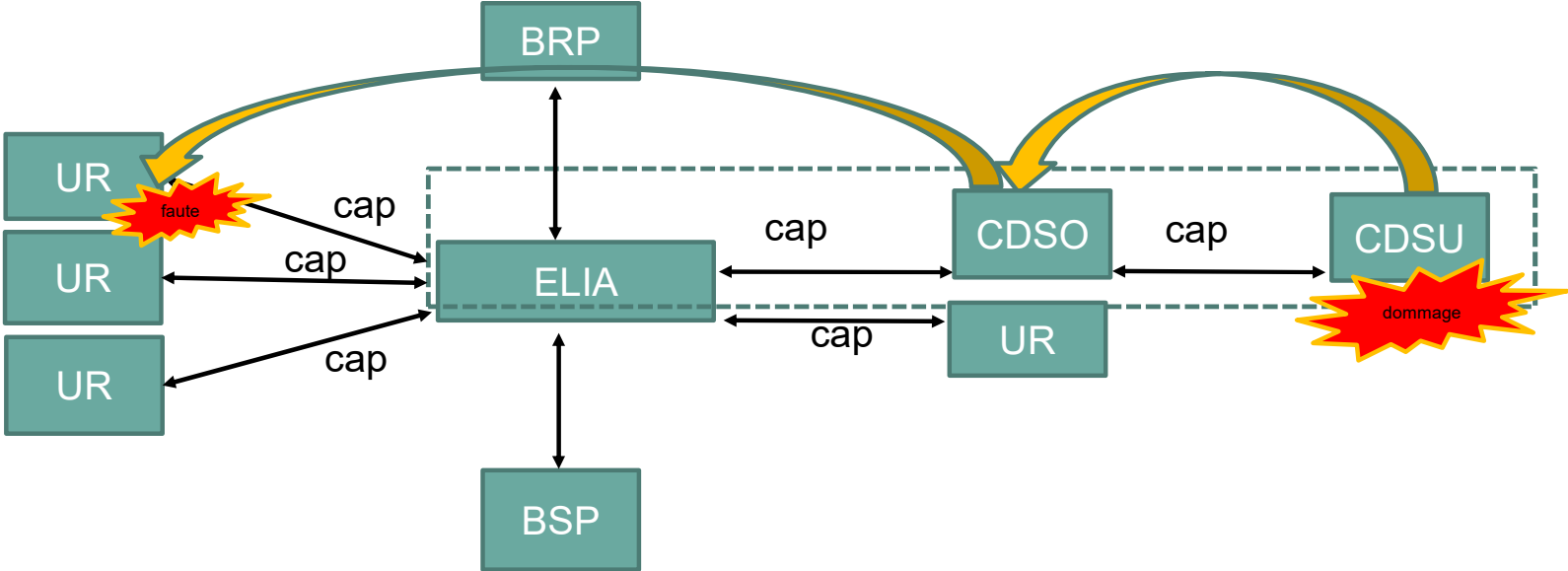
Relations contractuelles (raccordement)



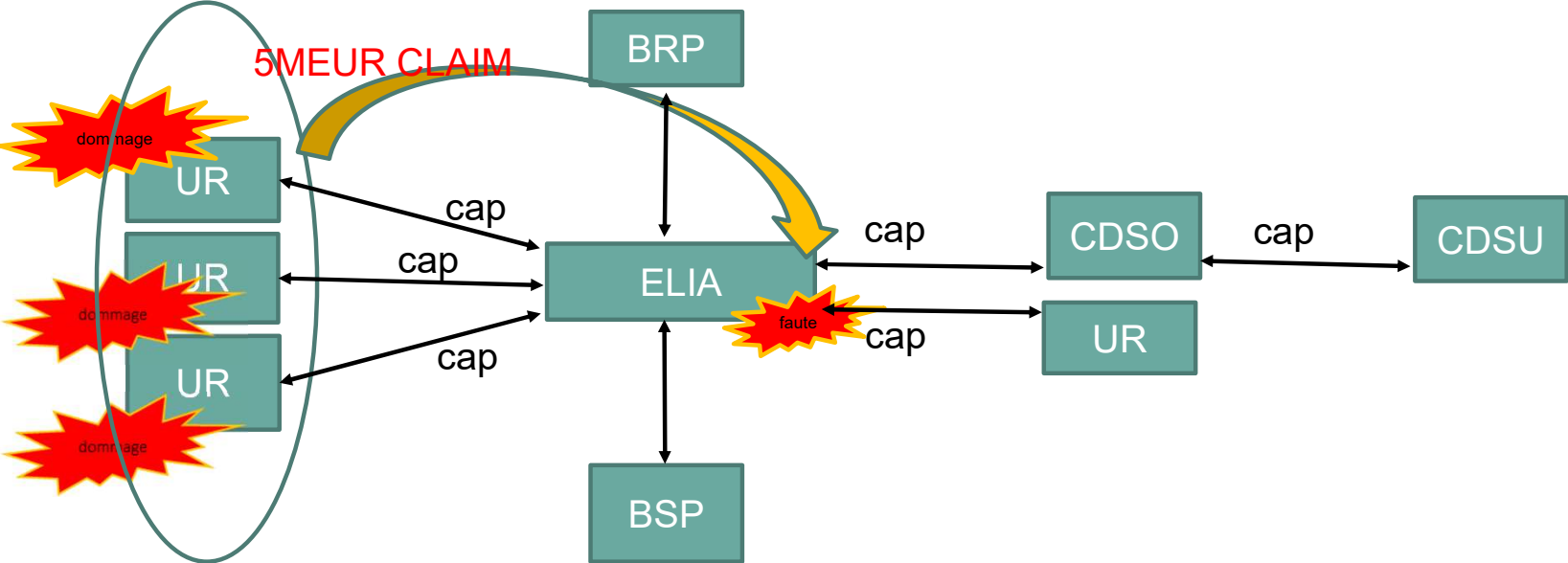
Relations contractuelles (raccordement)



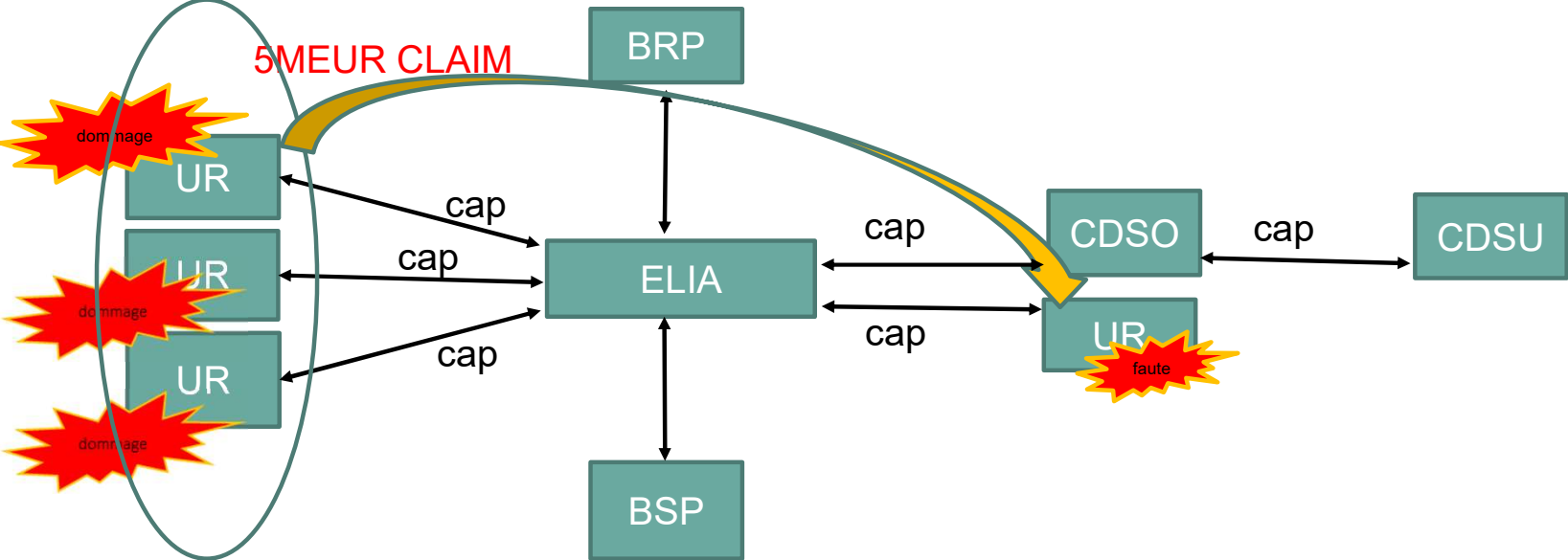
Relations contractuelles (raccordement)



Relations contractuelles (raccordement)



Relations contractuelles (raccordement)



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Connection Contract

Aansluitingscontract

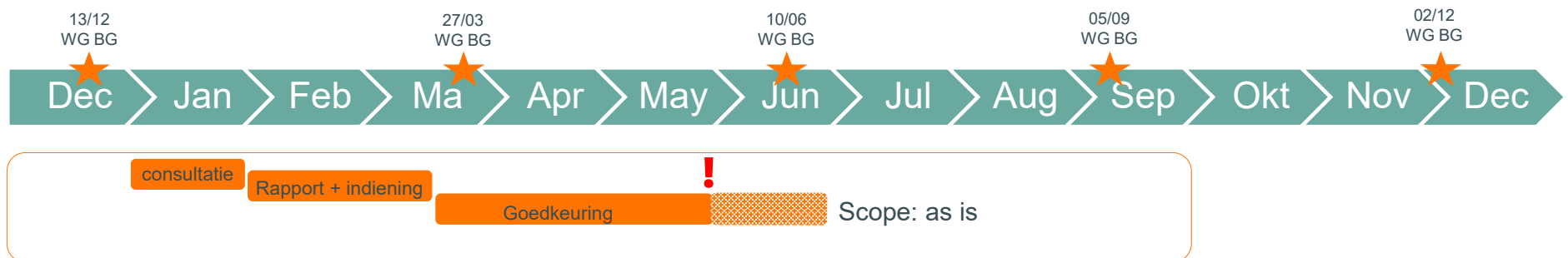
Timelines

LFDD

Aansprakelijkheid:
cfr point before

By article with
substantial
changes

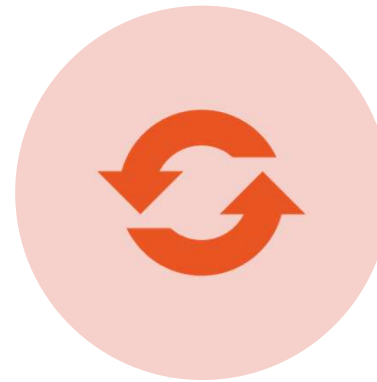
Timelines



LFDD



KEEP LFDD PROPOSITION INCL
THE CDS CASE



LFDD GROUP NOTION WILL BE
POSTPONED TO NEXT
ITERATION

Main Textual changes (1/2)



Art 1 Def:

Aansluitingsaanvraag
HP & SBP
Verbruiksinstallatie



Art 4 Verklaringen

clarificatie over verplichtingen betreffende vergunnigen



Art 8.2.2 LFDD verplichtingen : geen groep voor het moment



Art 11. 2 Betalingsmodaliteiten : 2026=> Peepol



Art 20.3 Onderhoud: rechte van partijen aan toegang voor inspectie



Art 23.3 Structurele gegevens: zelfde principe voor Energieopslagfaciliteit: info geven => beoordeling van Risico op vlak van Veiligheid, betrouwbaarheid en efficiëntie

Main Textual changes (2/2)

Bijlage 1: Aansluitingsinstallaties ipv Installaties + toevoegen van totaal aansluitingscapaciteit

Bijlage 1 : Energieopslagfaciliteiten ipv Energieopslageenheden

Bijlage 2: flexibiliteit van toegang: vermelding van compensatie/vergoeding



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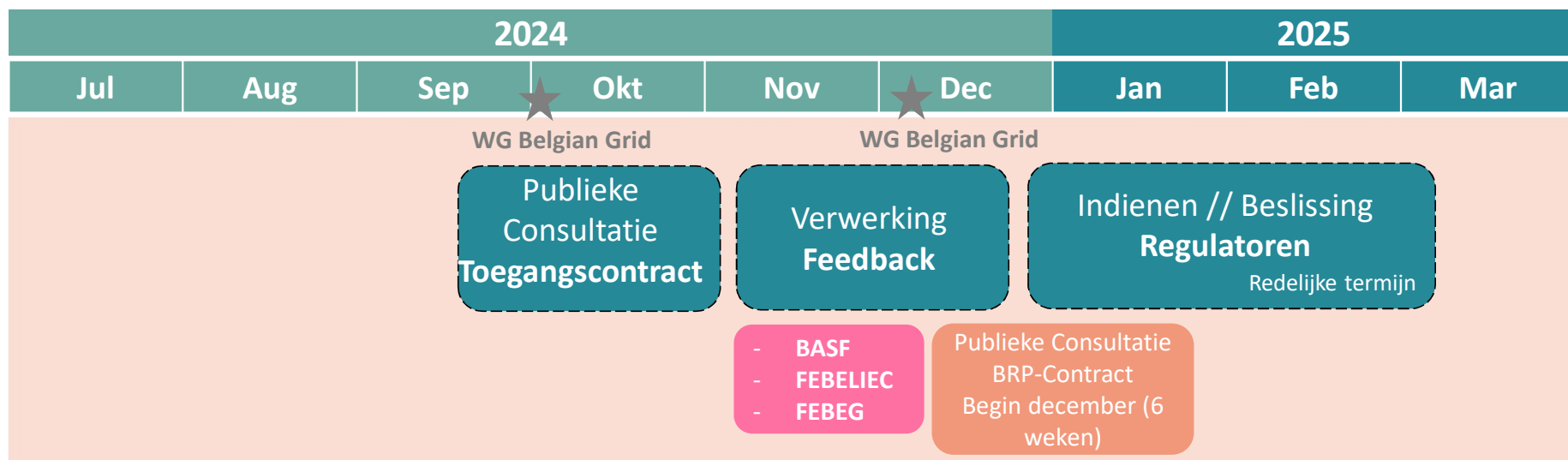


Toegangscontract

Publieke consultatie

13/12/'24 | Eva Heerinckx

Publieke consultatie Toegangscontract: 27 september – 27 oktober



De **Letter of Intent** voor Service Multiple Balance Responsible Parties (xBRP) wordt verlengd en opnieuw ondertekend. Het proces voor de verlenging is momenteel gaande, en de nieuwe vervaldatum is vastgesteld op december 2025.

Belangrijk om te vermelden: de *LoI* vervalt automatisch zodra zowel het Toegangscontract als het BRP-Contract goedgekeurd zijn.

Publieke consultatie Toegangscontract: voornaamste feedback

1. Aansprakelijkheidsartikel en de definities gelinkt aan dit artikel

- ✓ “Aangestelde(n)”
- ✓ “Directe schade”
- ✓ “Installaties van de Medecontractant”
- ✓ ...

2. Alignatie Aansluitingscontract

- ✓ Aanpassingen van de Marktpartijen (n.a.v. publieke consultatie 20/12/'23 – 16/02/'24)
- ✓ Feedback van de regulatoren
- ✓ Nieuwe publieke consultatie start December 2025

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AOB



Proposed next dates for WGBG in 2025

Use traditional Outlook invite to block the agendas?



Thank you.

