

iCAROS information session – OPA and SA contracts

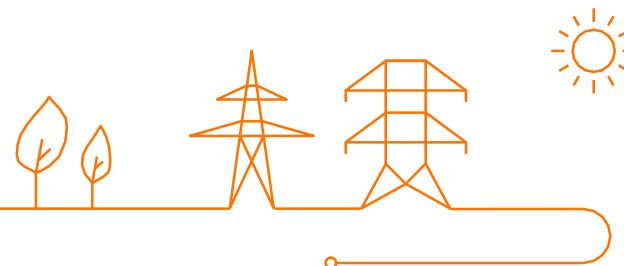
iCAROS = Integrated Coordination of Assets for Redispatching and Operational Security

8th February 2023



Agenda

1. Introduction
2. Outage planning agent
 - Outage planning process
3. Scheduling agent
 - Scheduling process
 - Redispatching process



The Coordination and Congestion Management of system relevant assets of grid users, new way of working : the **iCAROS project**

Integrated Coordination of Assets for Redispatching and Operational Security

Goal



Ensure an **efficient and modern** coordination and congestion management of system relevant assets of grid users to avoid congestion on the grid, ensure availability of ancillary services and operational security

Why?



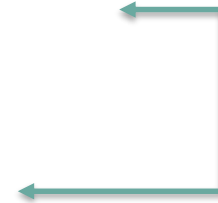
To expand the coordination and congestion management to **all system relevant asset types and to all levels**
Congestion management at all levels where there is flexibility would improve the efficient operation of the system



To be compliant with European legislation (SOGL, CEP, EBGL)
Introduction of roles of (BRP - BSP – SA - OPA)



To split **roles and responsibilities** in the market
Allowing each GU to enter market with the party of his choice



How?



The implementation of a new state of the art design & a new contractual framework for the coordination and congestion management of system relevant assets of grid users (GU)

The **System Operation Guideline (SOGL)** sets minimum system security, operational planning and frequency management standards to ensure safe and coordinated system operation across Europe.

The **Clean Energy Package (CEP)** is a set of rules aimed to update the European energy policy framework in order to facilitate the transition away from fossil fuels towards cleaner energy and to deliver on the EU's Paris Agreement commitments for reducing greenhouse gas emissions.

The **Electricity Balancing Guideline (EBGL)** regulation lays down the rules for the integration of balancing markets in Europe, with the objectives of enhancing Europe's security of supply.

iCAROS – Processes in scope

Process	Ensured by	Description												
Outage Planning	Outage Planning Agent (OPA)	<p>Provision of availability statuses and active power restrictions</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid green; background-color: #c8e6c9; padding: 5px; text-align: center;">Available (A)</div> <div style="border: 1px solid orange; background-color: #ffe0b2; padding: 5px; text-align: center;">Unavailable (U)</div> <div style="border: 1px solid yellow; background-color: #fff9c4; padding: 5px; text-align: center;">Testing (T)</div> </div> <div style="margin-top: 10px; text-align: center;"> <div style="border: 1px solid blue; background-color: #bbdefb; padding: 5px; display: inline-block;">Forced Outage (FO)</div> </div>												
Scheduling	Scheduling Agent (SA)	<p>Provision of active power schedules</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td></td> <td style="background-color: #e0e0e0;">00.00</td> <td style="background-color: #e0e0e0;">00.15</td> <td style="background-color: #e0e0e0;">.....</td> <td style="background-color: #e0e0e0;">23.30</td> <td style="background-color: #e0e0e0;">23.45</td> </tr> <tr> <td style="background-color: #ffe0b2;">Schedule (MW)</td> <td style="background-color: #ffe0b2;">-45,1</td> <td style="background-color: #ffe0b2;">-42,2</td> <td style="background-color: #ffe0b2;">.....</td> <td style="background-color: #ffe0b2;">-45,1</td> <td style="background-color: #ffe0b2;">-42,2</td> </tr> </table>		00.00	00.15	23.30	23.45	Schedule (MW)	-45,1	-42,2	-45,1	-42,2
		00.00	00.15	23.30	23.45								
Schedule (MW)	-45,1	-42,2	-45,1	-42,2									
Provision and activation of energy for Redispatching		<p>Provision and activation of redispatching bids (active power upwards and downwards)</p> <table border="1" style="margin-left: auto; margin-right: auto;"> <tr> <td>Delivery point(s)</td> <td>DP1</td> </tr> <tr> <td>ID</td> <td>RD001</td> </tr> <tr> <td>Direction</td> <td>Upwards</td> </tr> <tr> <td>Bid price</td> <td>50 € / MWh</td> </tr> <tr> <td>(max) Bid volume</td> <td>100 MW</td> </tr> </table>	Delivery point(s)	DP1	ID	RD001	Direction	Upwards	Bid price	50 € / MWh	(max) Bid volume	100 MW		
Delivery point(s)	DP1													
ID	RD001													
Direction	Upwards													
Bid price	50 € / MWh													
(max) Bid volume	100 MW													

iCAROS terminology

Technical Unit (TU): Device or aggregation of devices connected directly or indirectly to the synchronous electrical network that produces and/or consumes electricity.

Technical Facility (TF): Complete set of Technical Unit(s) which are operationally linked and which, combined together in one or several operating modes, can consume or generate electricity on its own.

Operating Mode (OM): Any subset of Technical Units, being part of the same Technical Facility, that can generate or consume electricity on its own.

Delivery Point (DP)

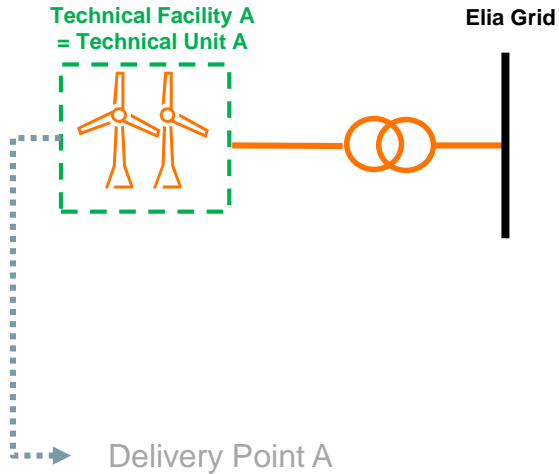
- By default, the Delivery Points are defined at the level of the Technical Units
- For a Technical Facility (sPGM) composed of several Technical Units, the Delivery Point can exceptionally be defined at the level of the TF if the conditions listed below are simultaneously fulfilled:
 - All Technical Units of the TF can only be operated simultaneously;
 - All Technical Units of the TF are linked to the same Access Point

	Concept used for
TF	Defining the obligation to participate to services
OM	Submission of Redispatching bids (combination of DP belonging to the same TF)
DP	Submission of availability statuses and schedules

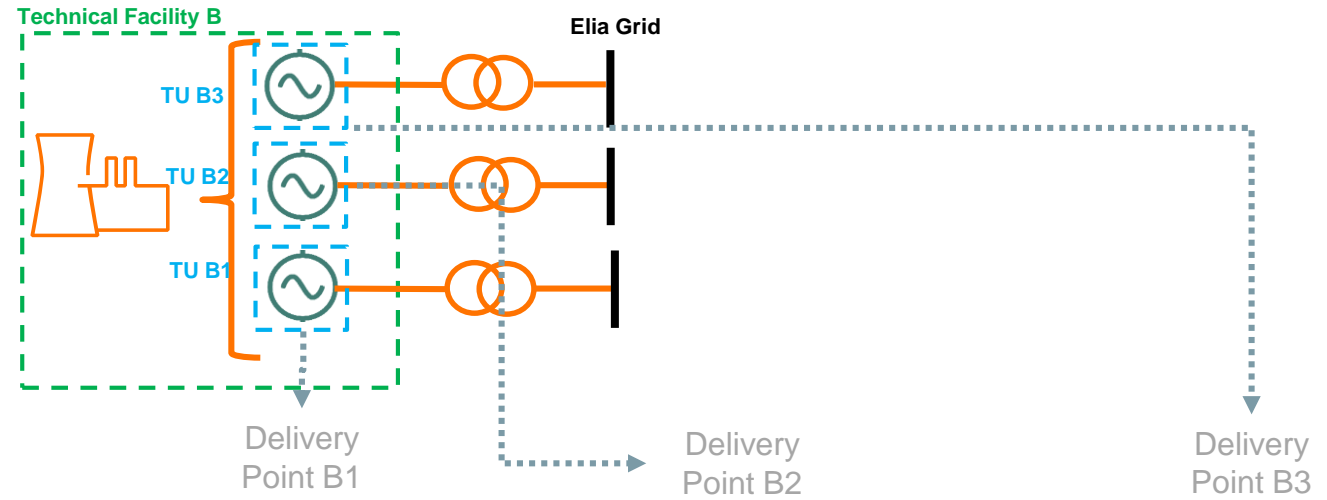


iCAROS terminology - Examples

1) A **wind park A** which is a Power Park Module (PPM) whose primary energy source is wind*

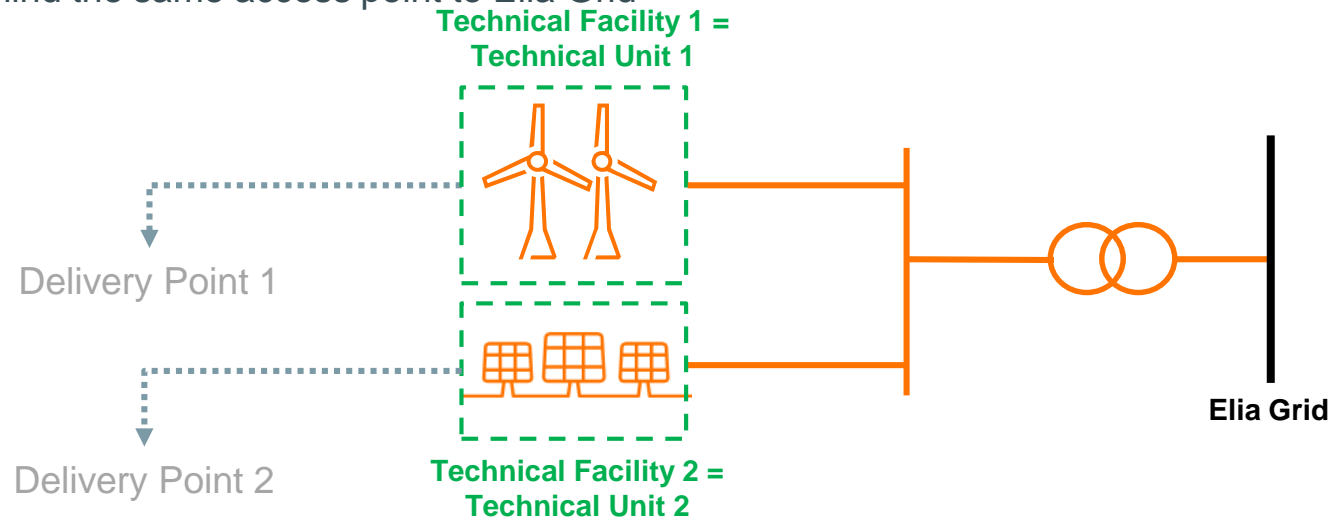


2) A **CCGT B** which is a synchronous Power Generating Module composed of three Technical Units (TU): two gas turbines and one steam turbine

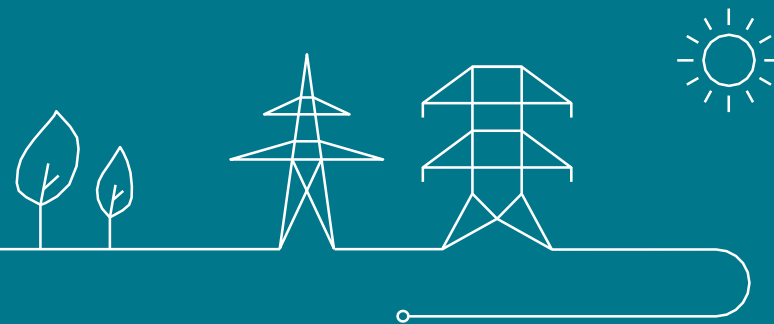


*Specific configuration is possible in case multiple BRPs are designated

3) A **wind park** which is a Power Park Module (PPM) whose primary energy source is wind and a **solar park** which is a PPM whose primary energy source is sun connected behind the same access point to Elia Grid



Outage Planning Agent



Who ? Outage Planning Agent

- By default **BRP** responsible for the injection at Access Point level
- If required by the **Elia Grid User** (requiring opt-out arrangement with the BRP):
 - **Elia Grid User** itself
 - **A third party** designated by the Elia Grid User

New

What ?

- Providing information concerning the **planned or forced unavailability of Technical Facilities**
 - **Availability statuses** as defined in the SOGL
 - **Active power capacity restrictions**, i.e., technical restrictions impacting the structural Pmax



Available (A)	Unavailable (U)	Testing (T)	Forced Outage (FO)*
The Delivery Point to which a Technical Unit is associated is capable of and ready for injecting or offtaking active power regardless of whether it is or it is not in operation	The Delivery Point to which a Technical Unit is associated is not capable of or ready for injecting or offtaking active power due to a full planned unavailability	The capability of the relevant Delivery Point to which a Technical Unit is associated, for injecting or offtaking active power is being tested	The Delivery Point to which a Technical Unit is associated is not capable of or ready for injecting or offtaking active power due to a full or partial unexpected unavailability



Participation to outage planning – February 2024*

Type of Technical Facility	Mandatory	Voluntary
sPGM/PPM connected to Elia grid or to a CDS connected to Elia grid with a maximum power larger than or equal to 25 MW	X	
sPGM/PPM connected to Elia grid or to a CDS connected to Elia grid with a maximum power lower than 25 MW but larger or equal to 1 MW		X**
Demand facilities connected to TSO grid		X**

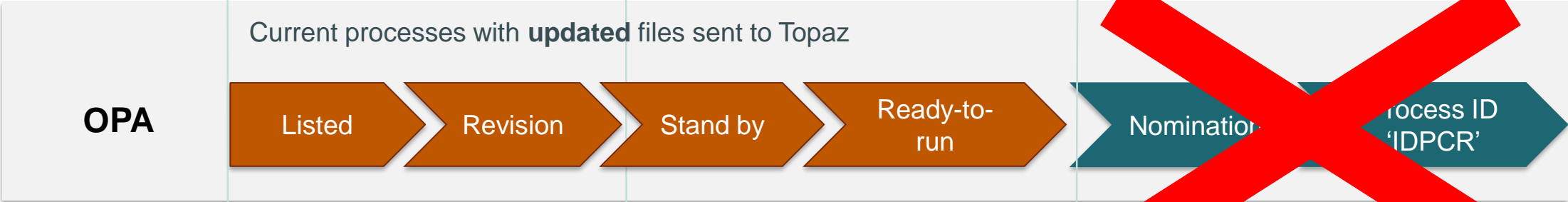
* Go-live of the phase 1 of iCAROS project

**According to the same rules applicable for units larger than or equal to 25 MW

Outage planning process – Evolution as of February 2024

Y-1

RT



Status:

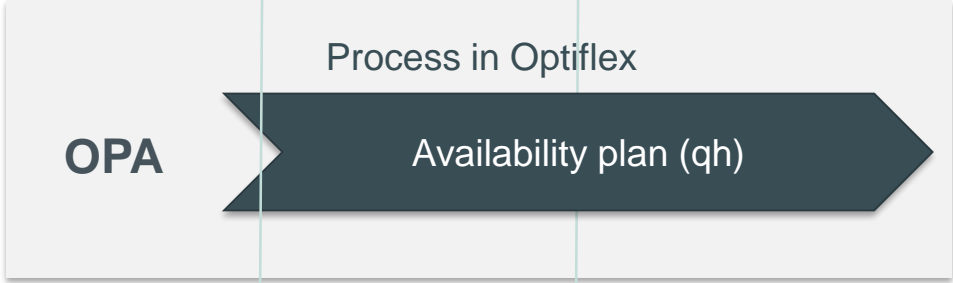
Listed L
Non Listed NL

Non Revision NRV
Revision RV

Stand-by S
Non Stand-by NS

Ready-to-Run RR
Non Ready-to-Run NRR

QH



Availability Status:

Available A
Unavailable U
Testing T
Forced Outage T



Outage planning process – Availability Plan

- After the Ready-to-run procedure, the **provision of an availability plan** by the OPA is required.
- The availability plan consists of providing to Elia, on a **quarter-hour basis** for all delivery points for day D:
 - An **availability status** (A, U, T or FO)
 - A corresponding **maximum power available** (P_{max_avail})

		00.00	00.15	00.30	00.45	01.00				23:00	23.15	23.30	23.45
OPA	Availability plan status	A	A	U	U	U					T	T	T	A
	P_{max_avail} (MW)	100	100	0	0	0					20	50	80	100

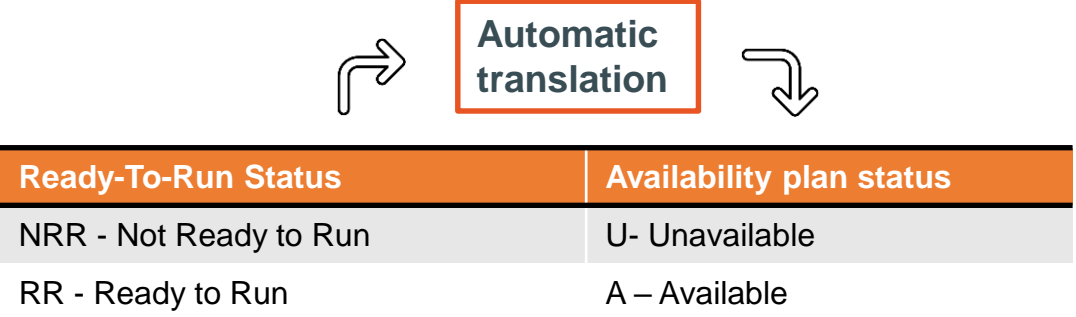
Forced Outage

- Unplanned unavailability of a delivery point has to be indicated by a Forced Outage status
- Partial unplanned unavailability of a delivery point has to be indicated with a Forced Outage status and a P_{max_avail} larger than 0 MW



Outage planning Process – Availability Plan

- At the end of Ready-to-run process (Thursday W-1 at 18:00), a **quarter-hourly availability plan is automatically generated** by Elia for each DP from the information provided through the Ready-to-run procedure by the OPA

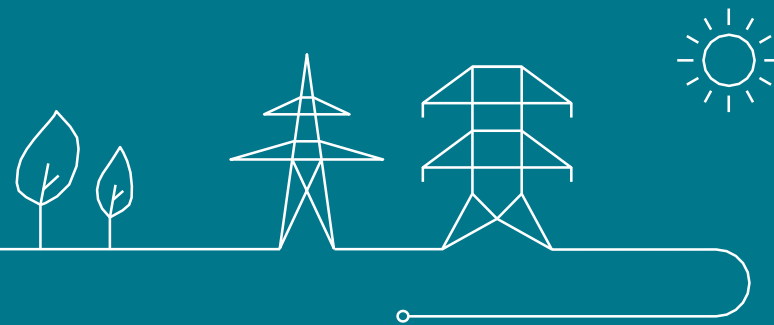


- After the automatic translation, the availability plan must be **kept up-to-date by the OPA**

Changes requested by OPA		Conditions
Initial status	Updated status	
A	U	Validation by Elia is required
U	A	
A/U	T	Valid test plan is submitted and approved by Elia before submission of T status
A/U	FO	Automatic validation



Scheduling Agent



Who ? Scheduling Agent

- BRP responsible for the injection at Access Point level

What ?

1. Providing schedules of active power injection/offtake

		00.00	00.15	00.30	23.15	23.30	23.45
SA	Schedule	-45,1	-42,2	-43,5		-12,3	-5,4	0

2. Provision and activation of redispatching bids (active power upwards and downwards)

Delivery point(s)	DP1
ID	RD001
Direction	Upwards
Bid price	50 € / MWh
(max) Bid volume	100 MW

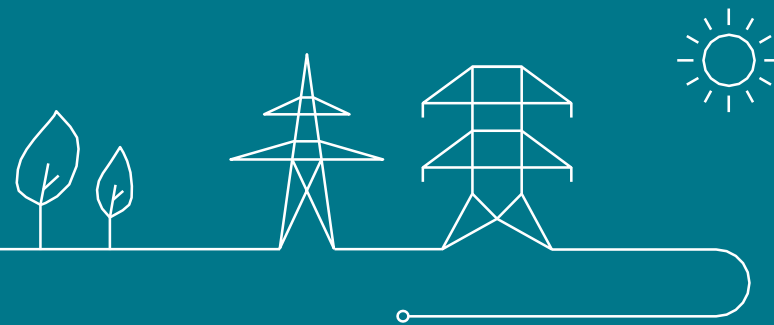


Participation to scheduling and redispatching – February 2024

Type of Technical Facility	Mandatory	Voluntary	Exempted
sPGM/PPM connected to Elia grid or to a CDS connected to Elia grid with a maximum power larger than or equal to 25 MW	X		
sPGM/PPM connected to Elia grid or to a CDS connected to Elia grid with a maximum power lower than 25 MW but larger or equal to 1 MW		X*	
Demand facilities connected to TSO grid			X

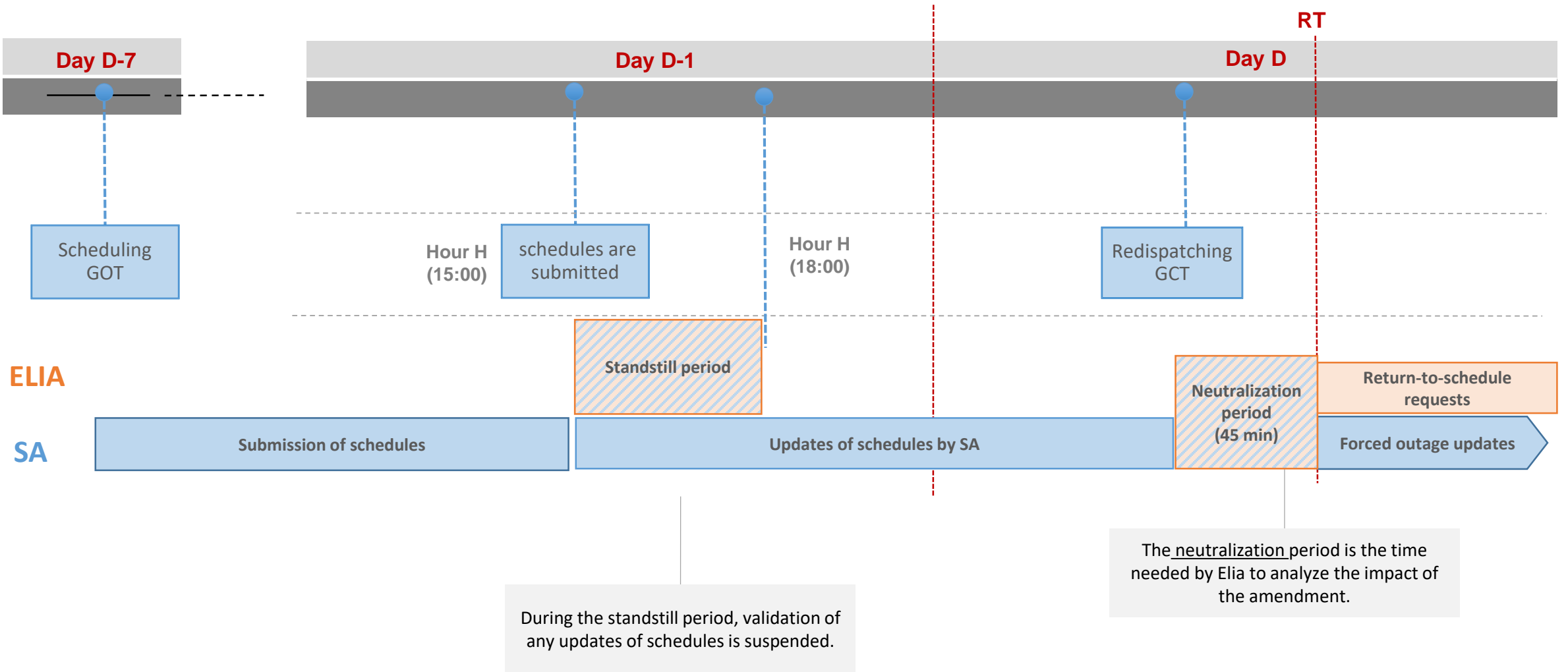
*According to the same rules applicable for units larger than or equal to 25 MW

Scheduling Process



Scheduling Process

Submission of **first schedule** for Day D at D-1 15:00 and **intraday schedule** continuous updates possible until Redispatching Gate Closure Time (RD GCT)



Scheduling Process – Submission of schedules

When ?

- Before D-1 15h

Level of submission?

- Delivery Point

Granularity ?

- Quarter-hourly

What ?

- Schedules of active power injection/offtake for day D
 - Most accurate estimation of the active power injection/offtake
 - Including values below technical Pmin (start-up/shut down)
 - Independent of redispatching and balancing activations requested by Elia

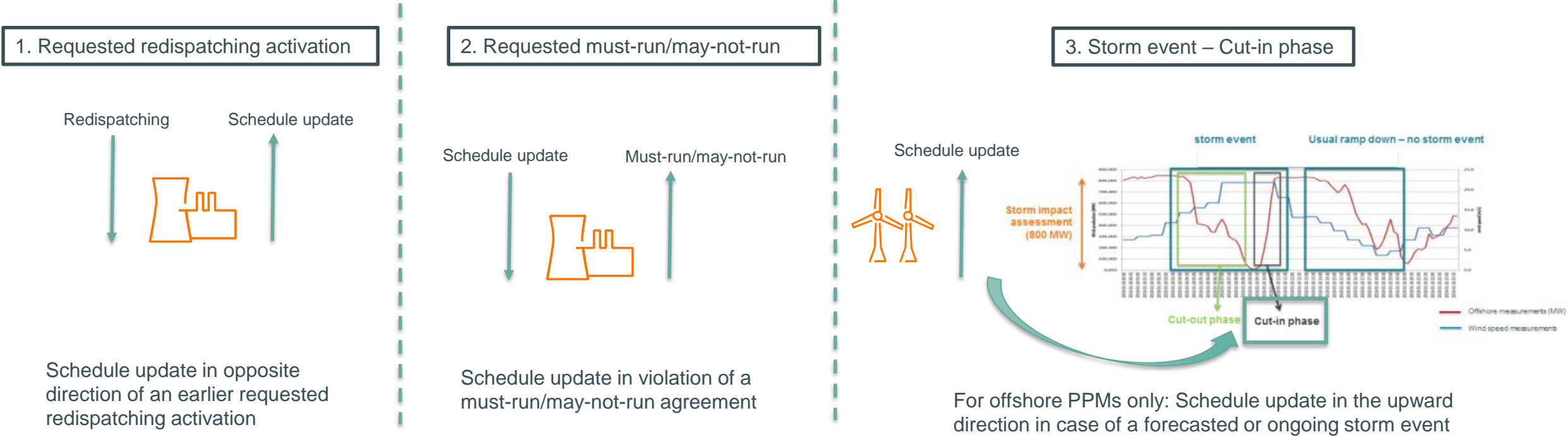
Sign convention for schedules	
Injection	Negative
Offtake	Positive



Scheduling process - Updates of schedules

- SA must inform ELIA without delay of any schedule modification for quarter-hour in the permitted periods.

	As is	As of Feb 2024
Schedule update	<i>At certain gates Blocked in "Red zones"</i>	Freedom of dispatch until RD GCT Unless in the cases described below, schedule can be freely adapted until RD GCT without approval of ELIA



Scheduling process - Updates of schedules

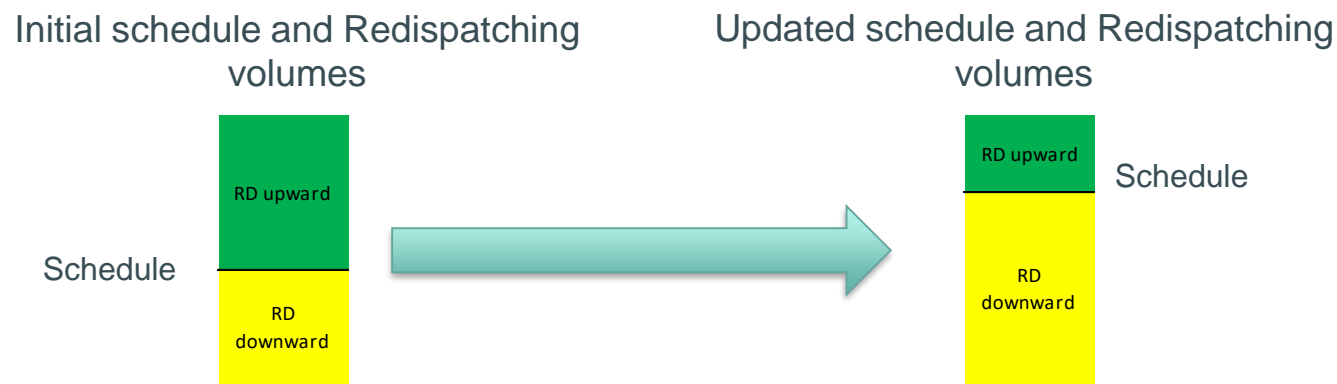
Submission of
schedules

Updates of schedules

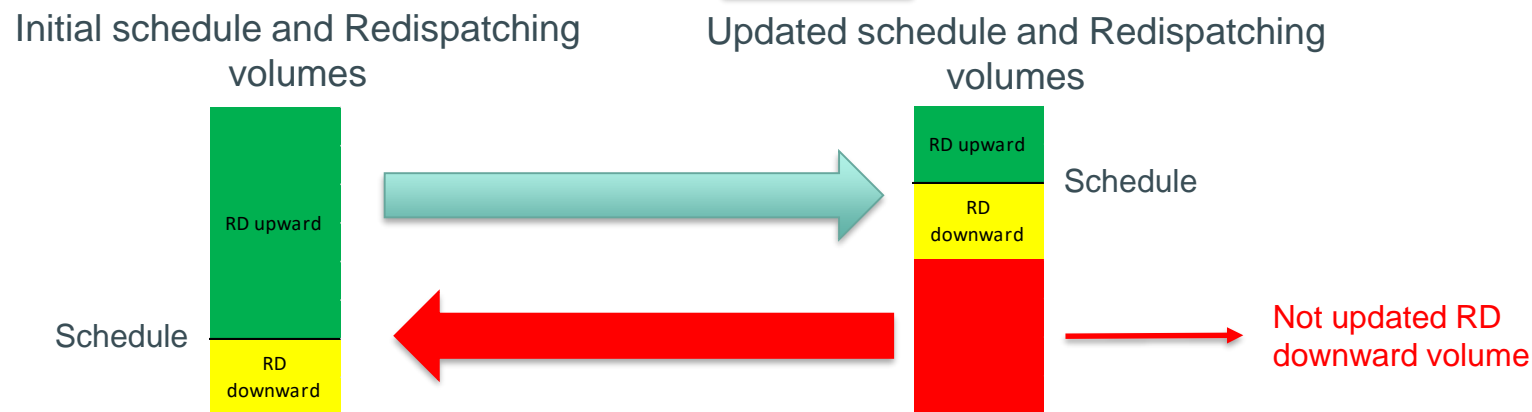
Return to schedule
request

Elia Group

- Schedule for a given DP and redispatching energy bid(s) including this DP must always be aligned
- Schedule update induces redispatching energy bid update and inversely (within 15 min)



- If the schedule and the redispatching energy bids are not updated within the requested timing and a **grid security risk** occurs for which Elia needs to activate one of these RD Energy Bids **New**



→ ELIA shall revert the validation of the updated schedule, reestablishing the previous validated schedule

Coordinability Levels of Technical Facilities

As is - Three coordinability levels
Coordinable
Not Coordinable
Limited Coordinable



As of Feb 2024 - Two coordinability levels per direction
Coordinable
Not Coordinable

- Defined at technical facility level
- Defined per direction (upward and downwards)

Examples:

Type of technical facility	Direction	Coordinability Level
Gas Turbine	Upward	C
	Downward	C
Wind power park	Upward	NC
	Downward	C

The coordinability level of a technical facility is always determined based on a discussion between the SA and Elia (KAM Energy).



Return to schedule (RTS)

Submission of
schedules

Updates of schedules

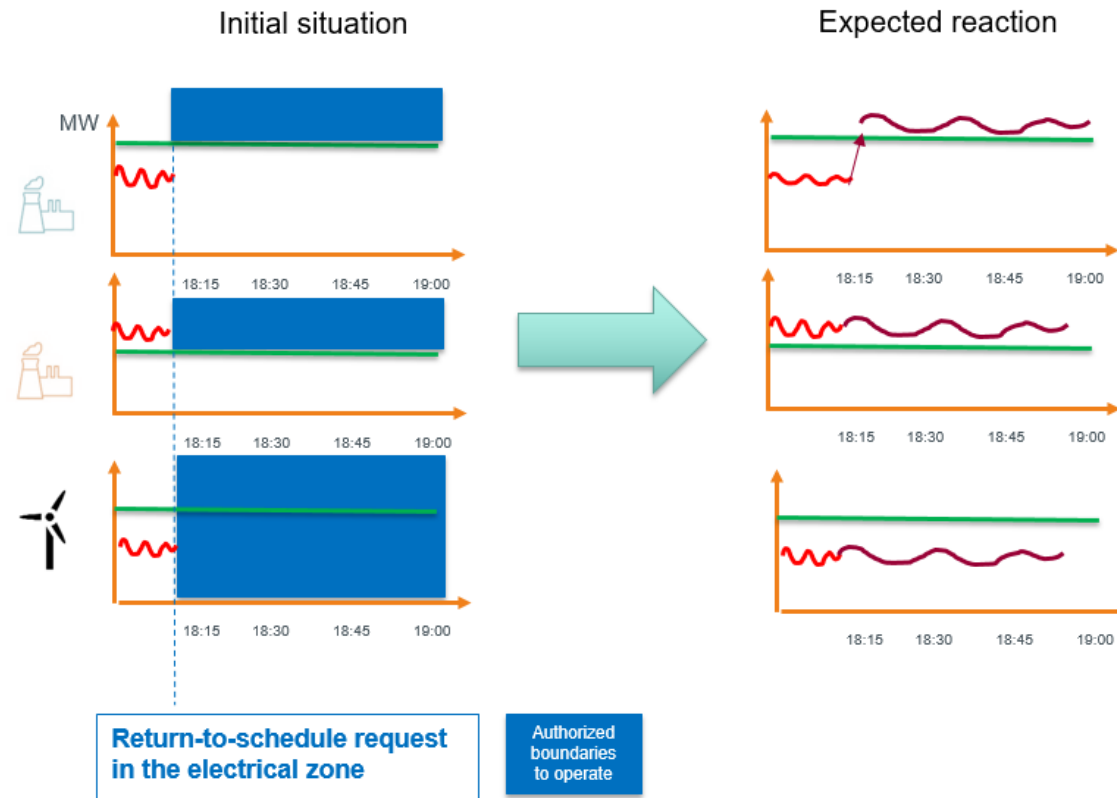
Return to schedule
request

| Elia Group

Return to schedule

1. Applicable to a specific DP or all DPs in an electrical zone
2. DP must react only if active power injection/offtake **is deviating** from the schedule **in the direction of the medium of high CRI defined in the zone**
3. RTS is only sent to DPs linked to technical facilities that are **coordinable in the direction allowing a return to the schedule**
4. Applicable to the quarter-hour following the quarter-hour in which the request was sent by Elia and all following quarter-hours for which the RD GCT has passed

Example: A **return to schedule** is requested in an electrical zone with a **CRI medium or high in the downward direction**



→ DP's power injection goes to/above the schedule

→ No reaction needed due to deviation from the schedule in the opposite direction of the CRI

→ No RTS received due to the coordinability of the TF

Return to Schedule - Compliancy control

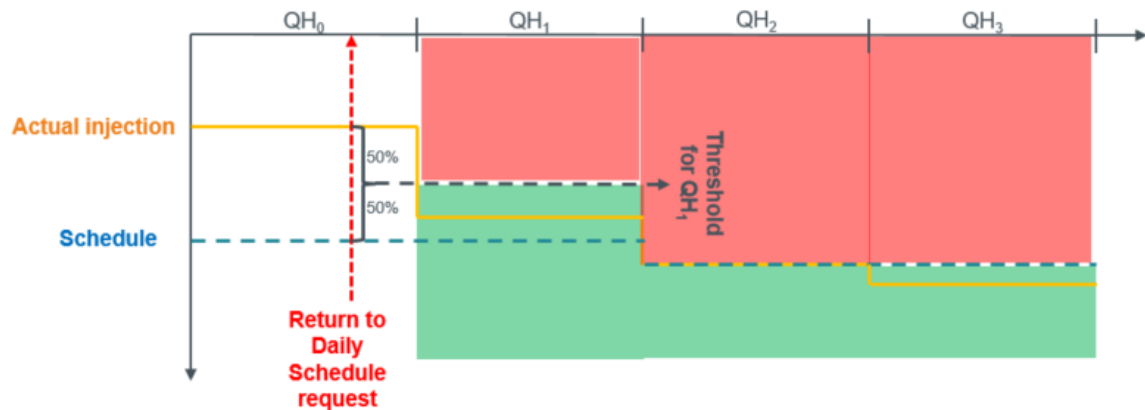
Submission of schedules	Updates of schedules	Return to schedule request
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Elia Group

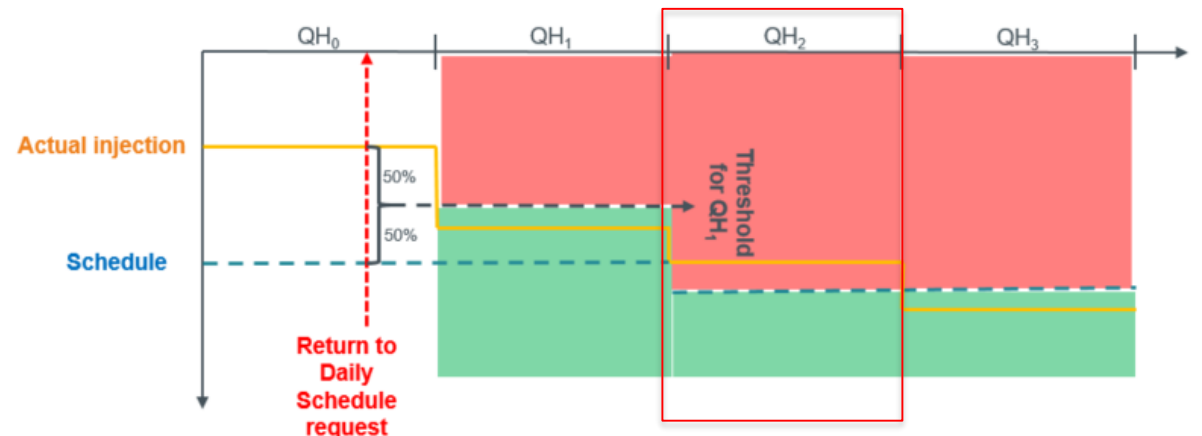
- The respect of the last valid Schedule will be verified ex-post, according to the following rules:
 - The last valid schedule will only be controlled when Elia explicitly asked the unit to return to the schedule
 - A Schedule will be considered as non correctly respected as soon as the **ex-post measurement deviates from the last valid schedule** (in the direction of the congestion risk) for at least one quarter-hour impacted by the RTS
 - Elia considers a **tolerance** in the control for the quarter-hour following the quarter-hour in which the request was sent. This tolerance corresponds to 50% of the deviation from the schedule during the quarter-hour in which the return to schedule request was sent by Elia.
- Example for a return to schedule applied in a zone with a high CRI in the downward direction:

New

Compliant Return to schedule



Non - Compliant Return to schedule

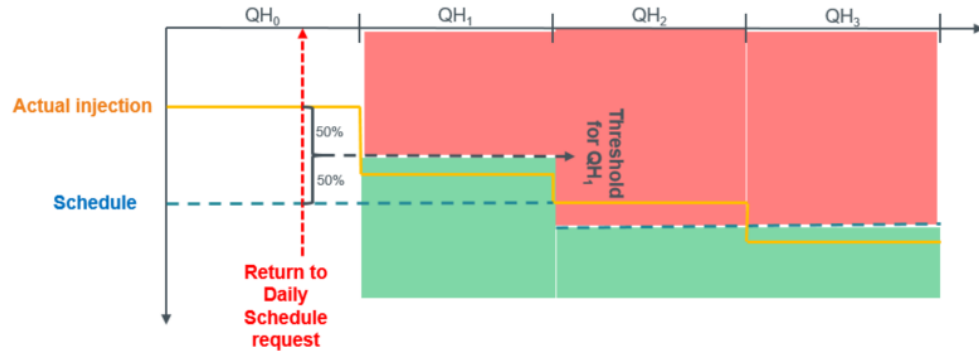


Compliant
Non compliant

Return to Schedule - Penalty

Each non-compliant return to schedule* will be penalized based on:

- The energy corresponding to the difference between the schedule and the actual active power injection/offtake in the direction of the CRI



Quarter-hour	Schedule – actual injection (MW) in direction of CRI	Energy corresponding to this difference (MWh)
QH0	60	15
QH1	20	5
QH2	10	2,5
QH3	0	0

- The price applied per quarter-hour for the penalty corresponds to the maximum between:

New

- Imbalance price of the qh
- Average of the day-ahead power auction market price of **the last 6 complete months**

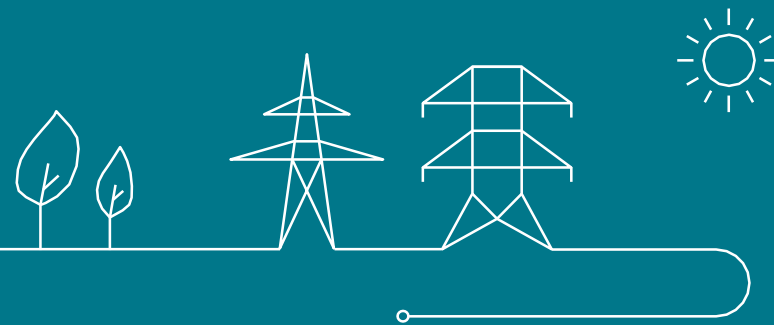
Quarter-hour	Imbalance price (€/MWh)	Average of DA price(€/MWh – For July 2022)
QH0	150	200,93
QH1	150	200,93
QH2	250	200,93
QH3	300	200,93

Penalty (€)
/
5 x 200,93= 1004,25
2,5 x 250= 625
0

Total penalty for the non compliant RTS: 1629,25 €

* The penalty is not applied in case a unit faced (and declared) a forced outage during the period of application of the RTS

Redispatching (RD) Process



Redispatching Process – Main evolutions

Explicit cost-based bidding for Redispatching (RD) Energy bids

		As is	As of February 2024
Redispatching submission process		<i>Implicit bidding</i>	<i>Explicit bidding</i>
Remuneration	DA redispatching	<i>Cost-based prices</i>	<i>Cost-based prices</i>
	ID redispatching	<i>Free prices</i>	
Activation control		/	<i>Based on the difference between the requested energy and the supplied energy</i>



Submission of explicit RD Energy Bids

- First submission before D-1 3pm
- RD energy bids should be kept up-to-date by the SA
- In accordance with the **RD energy bid manual**
- Main redispatching energy bids characteristics are **aligned with the mFRR bid characteristics**

	Energy bid characteristics
	Bid ID
	List of DP
	Direction: Upward or Downward activation
	Bid price (€/MWh)
	Bid volume (MW)
	Minimum bid volume (indivisible volume) (MW)
	Part of exclusive group: exclusive group ID
	Part of parent/child relation (“multipart bids”): Parent/child group ID
	Quarter-hour linking (Conditional linking): ID(s) of linked bids in qh(t-1) or qh(t-2)
	Full Activation Time (min)
Redispatching only	Maximum Activation Time (min)
	Minimum Activation time (min)

Characteristics aligned with mFRR design



RD submission process – Explicit RD Bidding Characteristics

- **Three additional bid characteristics** are available for the Scheduling Agent to better reflect the specificities of redispatching
- **Full Activation Time (FAT)** that allows bidding flexibility with an activation time longer than 12,5 min
- **Maximum Activation Time (MAT)** that allows bidding flexibility that can only be activated during a limited period of time. This characteristic is particularly useful for energy limited units.
- **Minimum Activation Time (MIT)** allowing bidding flexibility that needs to be activated during a minimum period of time for technical reasons (limited to start-up case and based on technical justification)

New

Energy bid characteristics	
Characteristics aligned with mFRR design	Bid ID
	List of DP
	Direction: Upward or Downward activation
	Bid price (€/MWh)
	Bid volume (MW)
	Minimum bid volume (indivisible volume) (MW)
	Part of exclusive group: exclusive group ID
	Part of parent/child relation (“multipart bids”): Parent/child group ID
	Quarter-hour linking (Conditional linking): ID(s) of linked bids in qh(t-1) or qh(t-2)
	Redispatching only
	Maximum Activation Time (min)
	Minimum Activation time (min)

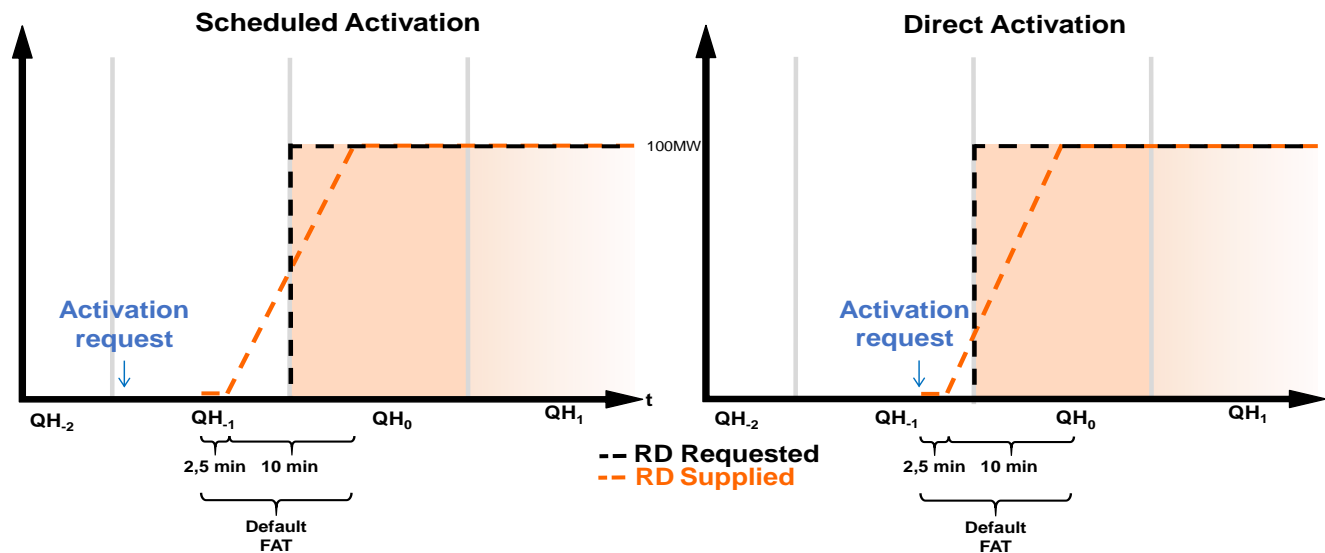
Deviation of by-default values need to be agreed with the Elia KAM energy at signature of the contract



RD activation process

Elia can request two types of Redispatching activations to solve an operational security risk

- **Scheduled redispatching activation**
 - **RD activation** requested **ahead** of real-time (e.g. up to one to two hours before real-time).
- **Direct redispatching activation***
 - **RD activation** requested **in real-time** and **to be executed directly**



- The RD energy bid activation profiles have been aligned with the activation profile used for mFRR energy bids
- Consequence: Alignment with the shortest Full Activation Time (FAT) from mFRR: 12,5 min (default FAT for RD bid)

*Only valid for iCAROS phase 1 : the extension of this concept units with a maximal power lower than 25 MW will be assessed during the preparation of iCAROS phase 2

$$\text{Remuneration (€)} = \text{RD energy requested} \times \text{RD energy bid price}$$

- **RD energy requested**

- Is the energy requested by Elia for a RD scheduled or direct activation
- In case of **direct activation**, a prorata approach is used to compute the requested energy of the first qh

$$RD \text{ Requested} \times \frac{15 - \Delta t}{15}$$

Where Δt = difference in time [min] between the moment of the Direct Activation request and the last moment a Scheduled Activation could have been requested

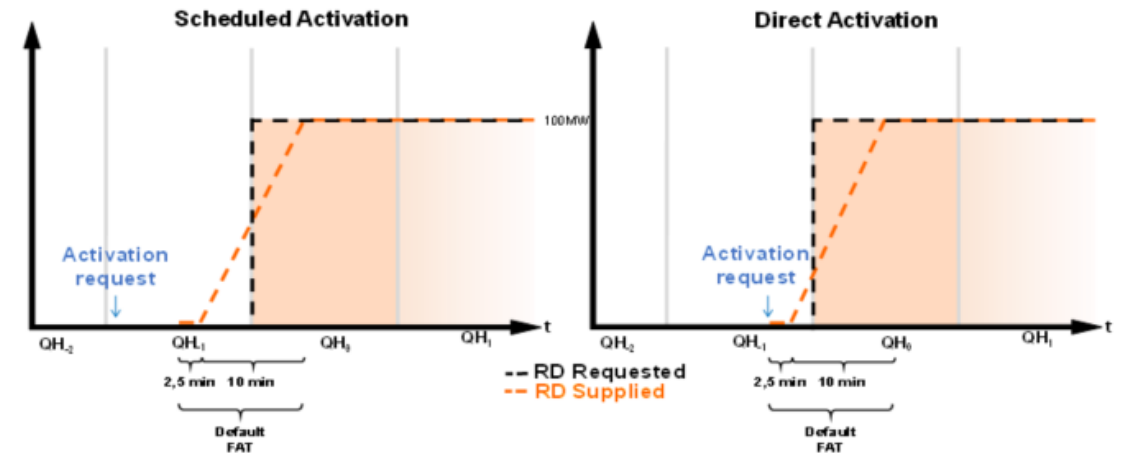
- **RD energy bid price**

- Reflects the costs for activating the flexibility and therefore is reasonable, directly related to the activation, and demonstrable
- Is based on a **cost formula proposed by the SA** and challenged/approved by Elia at the signature of the T&C SA
 - Elia can, in agreement with the CREG, **request a revision of the formula** if cost-reflective conditions are not respected
 - The cost formula can be adapted based on mutual agreement between SA and Elia

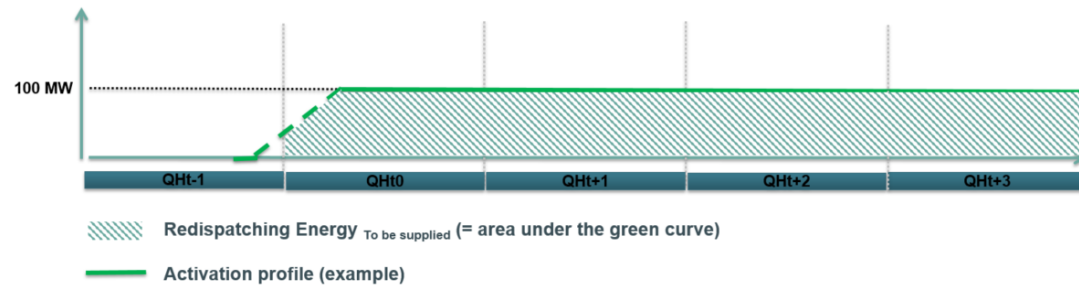
BRP perimeter correction

- Elia will continue correcting the perimeter of the BRP with the value of the **requested energy** (Redispatching Energy_{requested}) as of February 2024 given the SA = BRP in this implementation phase.
- Block approach is used for BRP perimeter correction:

Quarter -hour	Scheduled Activation		Direct Activation	
	RD Requested [MW]	Energy in BRP perimeter [MWh]	RD Requested [MW]	Energy in BRP perimeter [MWh]
QH ₋₂	0	0	0	0
QH ₋₁	0	0	0	0
QH ₀	60	15	60	15
QH ₁	60	15	60	15



1. All the RD energy bid activations are controlled
2. The activation of RD energy bids are controlled at **‘Operating Mode’ level** given that RD energy bid submission is also at this level
3. The activation control is based on the Redispatching Energy _{to be supplied}



RD Energy _{to be supplied} = **RD Energy** _{requested} except in case of ramping up/down :

- For the first quarter-hour of an activation
- Between consecutive quarter-hours if due to Elia’s request where **RD Energy** _{to be supplied} = 90 % of **RD Energy** _{requested}

4. A RD Energy Bid activation are considered as **non-compliant** as soon as

RD activation	Non compliant if
Upward	$RD\ Energy\ to\ be\ supplied - RD\ Energy\ supplied > 0$
Downward	$RD\ Energy\ to\ be\ supplied - RD\ Energy\ supplied < 0$

Where **RD Energy** _{supplied} = $\frac{1}{4} \times (Schedule - Active\ power\ measured)$

Activation control examples

Example 1: Request of activation of a 50 MW upward RD bid on a power unit (one DP) from QH2 to QH5

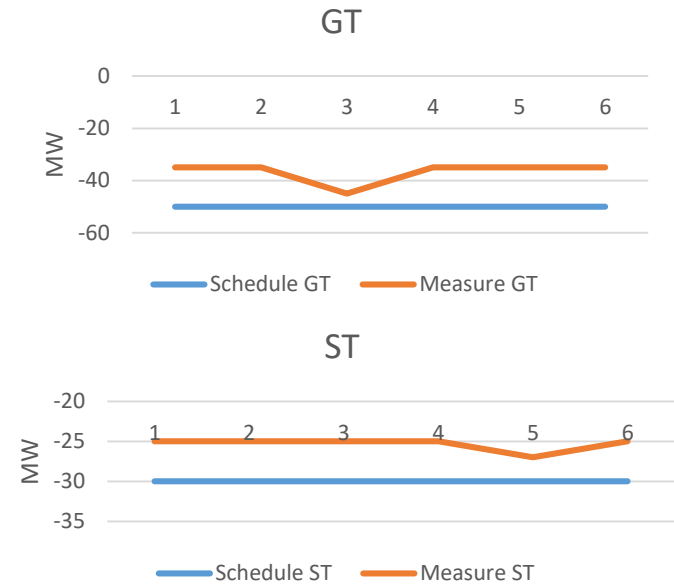
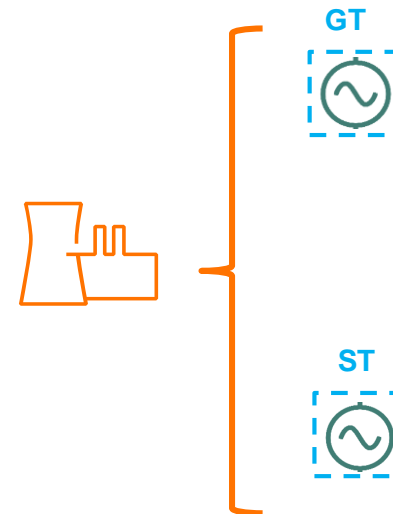
07/11/2022	Qh1	Qh2	Qh3	Qh4	Qh5	Qh6
Schedule (MW)	-20	-20	-20	-10	-10	-30
RD energy to be supplied (MWh)*	/	12.5	12.5	12.5	12.5	/
Active power measured (MW)	-20	-70	-80	-40	-60	-32

07/11/2022	Qh1	Qh2	Qh3	Qh4	Qh5	Qh6
RD energy supplied (MWh)	/	12,5	15	7,5	12,5	/
RD energy to be supplied - RD energy supplied (MWh)	/	0	-2,5	5	0	/

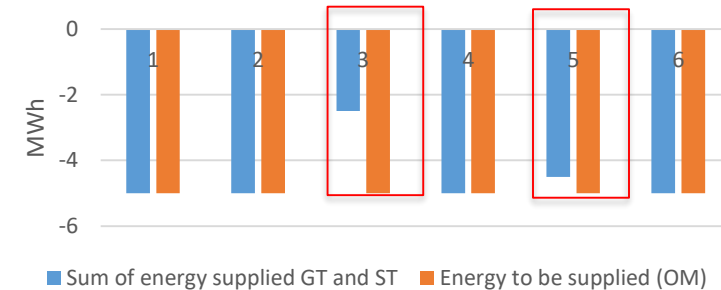
Qh 4 is non compliant



Example 2: Request of activation of a 20 MW downward RD bid from QH 1 to QH6 on the OM GT+ST



RD Energy Supplied vs RD Energy to be supplied (OM level)



Comparing the total RD energy supplied and the RD energy to be supplied on OM level, QH3 and 5 are non compliant

* Assuming RD energy to be supplied = RD energy requested

Penalty

Each non-compliant redispatching activation leads to the application of a penalty based on

- the **redispatching energy missing** identified during the activation control

$$RD\ Energy\ missing = |RD\ Energy\ to\ be\ supplied - RD\ Energy\ supplied|$$

07/11/2022	Qh1	Qh2	Qh3	Qh4	Qh5	Qh6
RD energy supplied (MWh)	/	12,5	15	7,5	12,5	
RD energy to be supplied – RD energy supplied (MWh)	/	0	-2,5	5	0	/



RD Energy missing (QH4) = 5 MWh

- A **penalty price** composed of two elements:

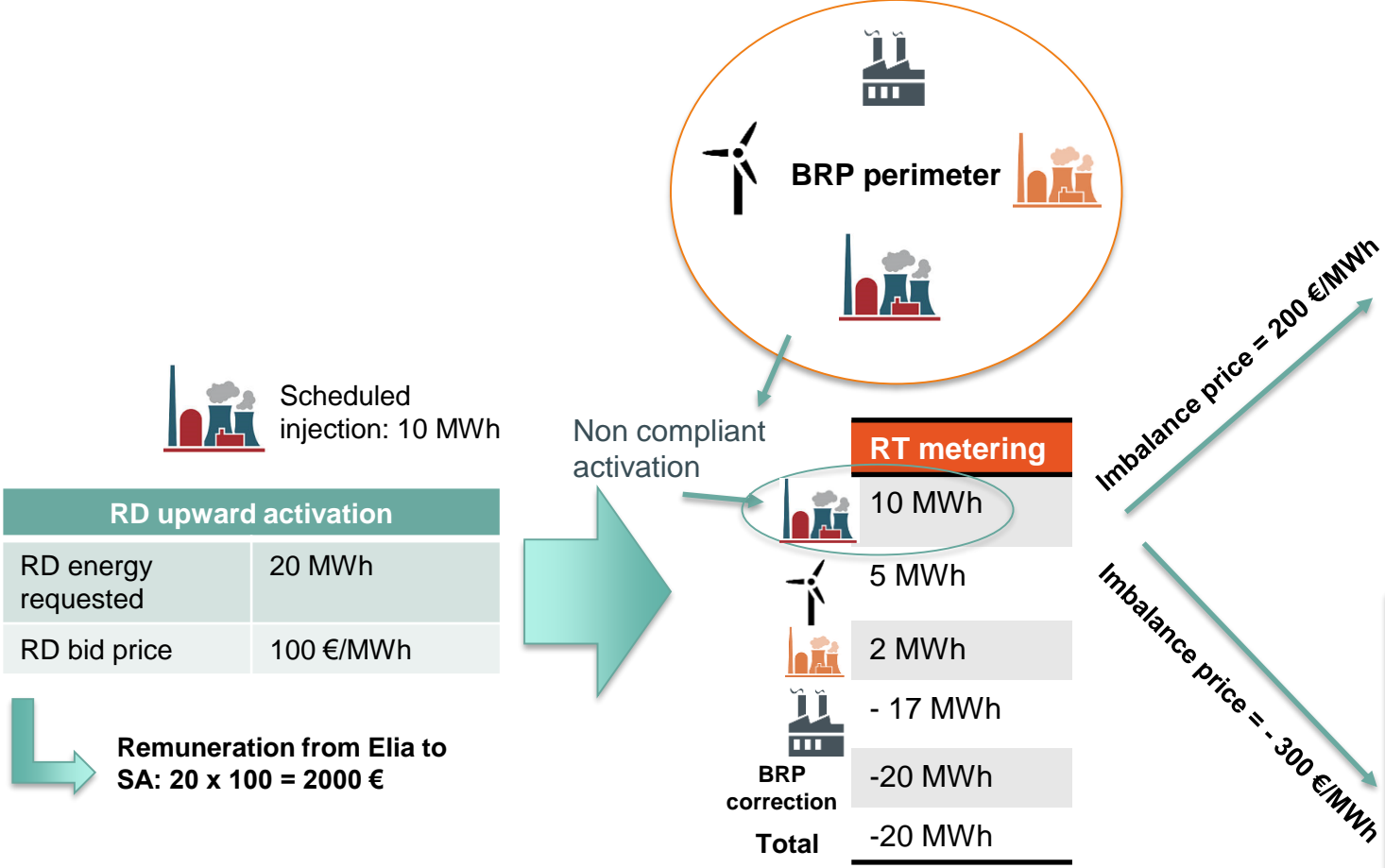
New

- A minimum penalty equals to **|0,25x RD energy bid price|**
- An additional penalty* to **discourage any gaming** equals to **|imbalance price – RD energy bid price|** only applicable if:

RD activation	Applicable if
Upward	Imbalance price < RD Energy Bid price
Downward	Imbalance price > RD Energy Bid price

*This approach shall be re-evaluated when an effective split of roles and responsibilities between the SA and the BRP will be introduced and, in particular, if the mechanism for the BRP perimeter correction evolves in the future.

Penalty example



Imbalance settlement : $-20 \times 200 = - 4000 \text{ €}$

SA and BRP total financial account	Penalty	Total penalty
$2000 \text{ €} - 4000 \text{ €} = -2000 \text{ €}$	$20 \text{ MWh} \times 25\% \times \text{RD bid price} = 500 \text{ €}$	500 €

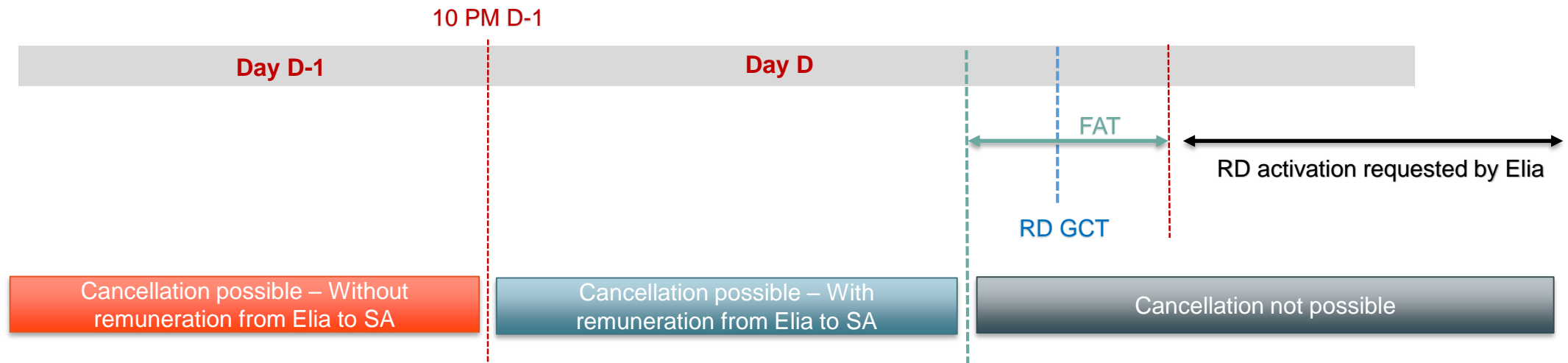
Imbalance settlement : $-20 \times (-300) = 6000 \text{ €}$

SA and BRP total financial account	Penalty	Total penalty
$2000 \text{ €} + 6000 \text{ €} = 8000 \text{ €}$	$20 \text{ MWh} \times 25\% \times \text{RD bid price} = 500 \text{ €}$	8500€
	$20 \text{ MWh} \times \text{imbalance price} - \text{RD energy bid price} = 8000 \text{ €}$	

Risk of gaming is discouraged as the benefits from the arbitration are neutralized

Cancellation of a RD activation

- ELIA can fully **cancel a previously requested scheduled activation of a RD energy bid** until the minimum time between the **last moment to request a scheduled activation** respecting the FAT of the first RD energy bid of the scheduled activation and the **RD GCT** of the first bid of the activation
- The scheduled activation of a RD energy bid is only not remunerated if the cancellation is done **before D-1 10 PM**



*Note : the cancellation of a Scheduled redispatching activation is a needed option for **exceptional circumstances** implying large unexpected changes in the grid. However, this option **shouldn't be used frequently** by Elia as RD bids are typically activated once the need is confirmed.*



Coherency control between data provided by OPA and SA

Coherency control between				Reason
Data 1	from	Data 2	from	
Availability status	OPA	Schedule	SA	The availability status given by the OPA has to be coherent with the schedule provided by the SA i.e. a non-zero schedule cannot be provided while the status of the Technical Unit is set to unavailable by the OPA.
Availability status	OPA	RD Energy Bids	SA	This control ensures that the provision of at least one RD energy bid by the SA is coherent with the availability status given by the OPA

Penalties in case of incoherency

- Applies to **both SA and OPA**
- **Applies per day** containing one or more incoherencies (200€/day)
- Not applied for the first 3 incoherent days per year (tolerance)

Note : in case a incoherency is detected by Elia, SA and OPA are notified and can correct the information before RD GCT of the concerned quarter-hour(s)



Follow-up and contact persons

Comments and questions on presented information regarding outage planning, scheduling and redispatching processes as of February 2024 can be sent to your KAM energy:

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Thank you

