Working Group Balancing

Tuesday 15th May 2018

Agenda

1. **Approval of the meeting of minutes on 20/02/2018**
2. **Transition planning Icaros**
3. **R3 2018 design**
4. **Study on dynamic procurement of mFRR**
5. **Design product R3 down**
6. **Status update on**
    - **ToE for Bidladder**
    - **Consultation ARP contract**
7. **Datahub – FDM document**
8. **R1**
    - **Split R1/R2**
    - **R1 procurement weekly: change of GCT**

1) Approval of the minutes of the meeting on 30/03/2018

3 comments received

Approval of the minutes of the meeting on 30/03/2018

- **Comment BASF**
  - BASF demanded whether a non-certified Supplier (CDS-connected) is also obliged to sign the Supplier Convention. Elia responded that a non-certified supplier is indeed obliged to sign the Supplier convention
    - ➢ The MoM will be amended accordingly
- **Comment Uniper**
  - Uniper would like to reformulate its comment as follows :

    "Uniper asks whether a BSP will be completely free to determine its activation price. A BSP could use a high activation price to avoid being activated and sees a rationale behind this. For example in doing so it would prevent a BSP from the risk of missing an activation and consequently from penalties that go with it. Since a BSP gets remunerated for reservation, he could deem this remuneration sufficient and so put a high activation price to avoid the risk of missing an activation and being penalized."
    - ➢ The MoM will be amended accordingly
- **Comment Synergrid**
  - Synergrid would like to reformulate the last sentence as follows :

    "Synergrid explains that the contract FSP-DSO for FCR (LV customers) will be published and enter into force on April 20th, unless new remarks are raised by the regional regulators. The expiration date of the contract FSP-DSO for FCR (MV customers) will be extended for one year (until 30.6.2019), without formal public consultation, enter into force unless the participants to this meeting of the Working Group Balancing disagree on this approach. The members of the WG Balancing agree with the proposal of Synergrid."
    - ➢ The MoM will be amended accordingly

2) Transition planning Icaros

- terms & conditions Scheduling Agent
- terms & conditions Outage Planning Agent

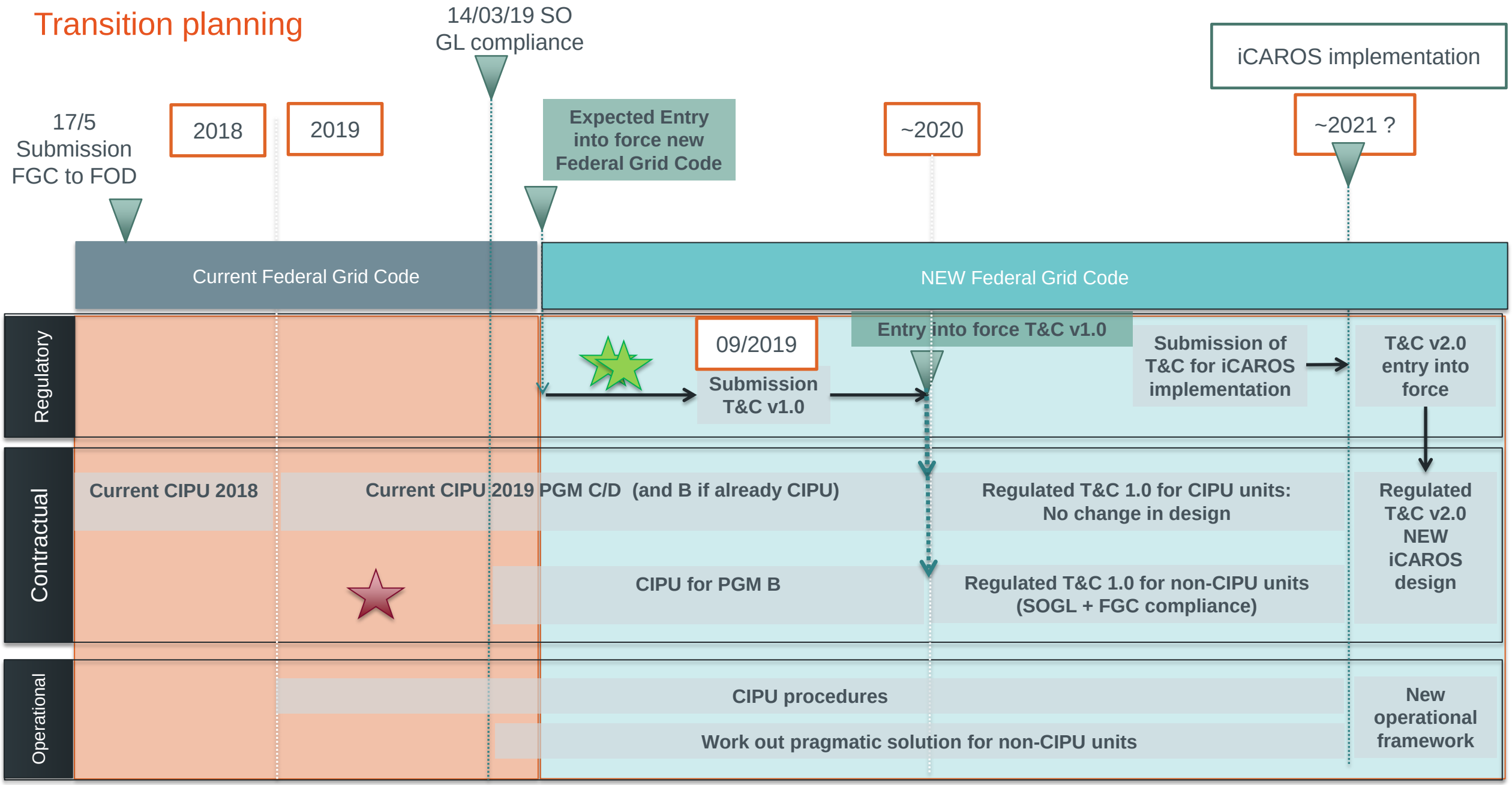
Federal Grid Code - Section VI.II.V. - Dispositions transitoires

Art. 271**.** §1er. Pour toute installation faisant partie de la catégorie visée à l' alinéa 1 de l'article 256§2 du présent arrêté d'une puissance nominale **supérieure ou égale à 25 MW**, les obligations de responsable de la programmation ainsi que de responsable de la planification des indisponibilités visées au présent chapitre sont assurées par le responsable d'équilibre chargé du suivi du point d'accès de cette unité pendant une période transitoire.

§2. Les obligations visées au §1er seront reprises pendant cette période transitoire d'une part dans le contrat de responsable d'équilibre et d'autre part dans le contrat de coordination de l'appel des unités de production que le responsable d'équilibre chargé du suivi du point d'accès de cette unité est tenu de conclure avec le gestionnaire du réseau de transport, jusqu'au transfert effectif des droits et obligations correspondants, le cas échéant graduel, vers le responsable de la programmation ainsi que le responsable de la planification des indisponibilités. Ce transfert se fera selon des modalités spécifiées par le gestionnaire du réseau de transport et approuvées par la commission.

§3. Pour toute installation faisant partie de la catégorie visée à l'alinéa 1 de l'article 256§2 mais **d'une puissance nominale inférieure à 25 MW**, ainsi que pour toute installation faisant partie des catégories visées aux alinéas 2 à 4 de l'article 256§2, les dispositions du présent chapitre entrent en vigueur à la même date d'application des articles 41 à 53 du code de réseau Européen SOGL tel que prévu à l'article 192 du code de réseau SOGL.

Transition planning



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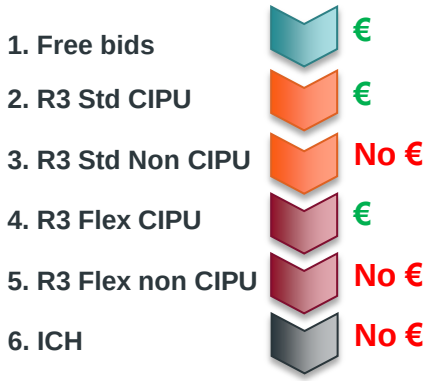
New §4. Le gestionnaire du réseau de transport soumet à la commission pour approbation les modalités et conditions applicables au responsable de la planification des indisponibilités et responsable de la programmation visées respectivement aux articles 259 et 265 du présent arrêté pour la première fois 6 mois après l'entrée en vigueur du présent arrêté.

3) R3 2018 design

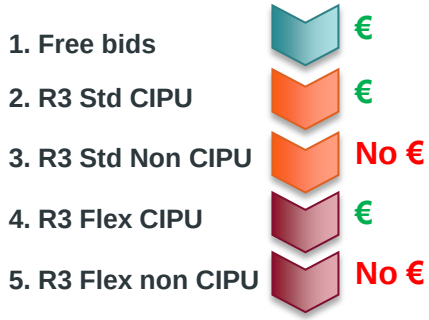
R3 2018 in a nutshell

- Activation price and ToE for R3 non-CIPU
- Common merit order activation for mFRR energy bids with unlimited number of activation (free bids and R3 Standard)

2017

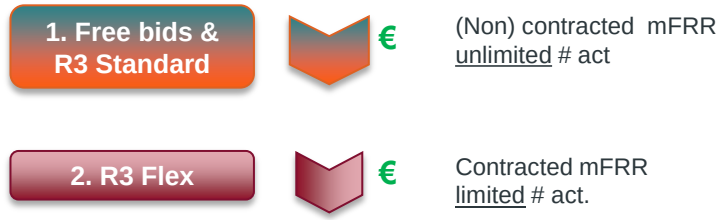


1st of Jan 2018



- ***Stop ICH***

1st of Dec 2018



- ***Act. Price and ToE R3 non-CIPU***
- ***Merit Order mFRR***

Objective of the Design Note

R3 2018 – DESIGN NOTE

Market Development

Objective

Provide stakeholders with clear view on the functional evolutions that will be released in December 2018 for mFRR and their impacts:

- Activation price and ToE for R3 non-CIPU
- Common merit order activation for mFRR energy bids with unlimited number of activation (free bids and R3 Standard)

Comments received

1. FEBEG

- **on Merit Order and R3 Flex**

- *FEBEG considers the proposed evolutions in the design note as new steps in the direction of a fully integrated merit order.*
- *Anyhow, FEBEG calls Elia to move as soon as possible towards a dispatching behavior that is purely based on the financial merit order.*
- *FEBEG doesn't agree with the proposal that – within the merit order for mFRR – the flex-products are artificially put at the end of the merit order.*
- *Therefore, FEBEG has already previously insisted that Elia should have investigated how the R3 standard and R3 flex can be integrated in one merit order.*

FEBEG

As foreseen in roadmap but at a different time

Comments received

2. FEBEG

➢ **on integration of startup cost**

As foreseen in roadmap but at a different time

- *FEBEG considers the proposed solution for inclusion of start-up costs as a logic next step towards the development of a fully integrated merit order, but not as a final solution because several distortions remain. FEBEG therefore calls upon Elia to further investigate the suggested alternatives and to improve its proposal as soon as possible.*

FEBEG

Une alternative aux deux options proposées par la FEBEG pourrait également être ce qui est fait chez RTE, à savoir

Direct Energie

To be further discussed

$$\text{Prix effectif par MWh} = \text{Prix d'Offre hors Forfait de Démarrage} + \frac{\text{Forfait de Démarrage}}{P \times D}$$

Avec :

- P :
  - P_{min} par défaut ; ou
  - la puissance d'appel de l'Offre, estimée par RTE.
- D :
  - DO_{min} par défaut ; ou
  - la durée d'appel de l'Offre, estimée par RTE.

Comments received

2. **BDRA**: Actility, REstore, TeamWise

- *New R3 flex parameters still must enhanced to be fully workable*
  - *i. Pro-rata of Counter of activations needs to be extended to energy check*
  - *ii. Neutralization delay should be respected in all cases, including when running across two days.*
- *Change the order of priority, first allocating the activated MWs to the contracted R3 (whatever one in first then) and only after to bidladder.*
- *Increase in availability penalties is welcomed*

To be further investigated

Not acceptable: Logic already in place currently

BDRA

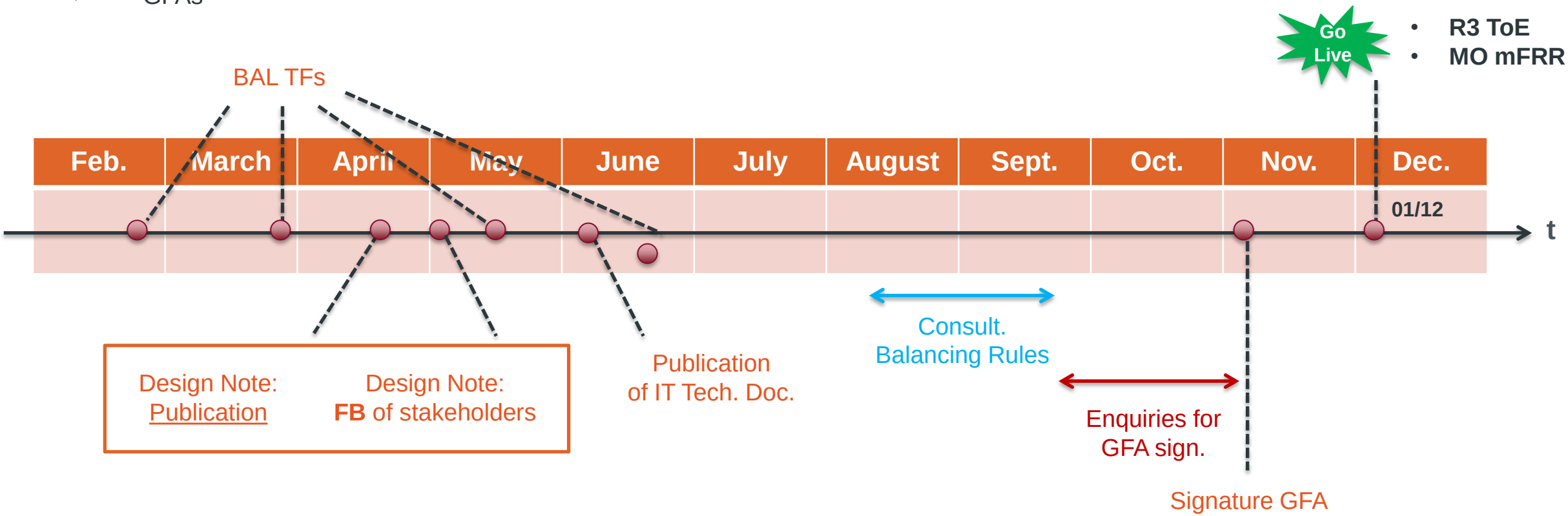
… the note states that bids containing more than one delivery point will be capped at 50 MW. This is a barrier to the development of portfolios in R3 as it limits possibilities to hedge against failures.

To be further investigated

Restore

Planning and next steps

- ✓ Bilateral discussions with stakeholders
- ✓ WG Balancing 20/06 ➔ final decision
- ✓ Balancing Rules
- ✓ GFAs



Study on dynamic procurement of MFRR

Objective of the study

Study on the evolution towards a daily procurement of mFRR

Market Development

Objective

Investigate :

- The possible evolution towards a daily procurement (currently monthly) of mFRR including the advantages and disadvantages of such a change.

In this context also analyze:

- The need of maintaining different mFRR product types (R3 Flex and Standard) in this context
- The impact on reserve sharing
- The impact of the non-contract bids on the mFRR balancing capacity to be procured

Public consultation

22/05 ➔ 15/06

mFRR roadmap

WG Balancing of 17/03/2016

EIF NC on EB (?)

NEMO go Live

Start CoBA for mFRR/aFRR (?)

	: Product opening	***Step 2: bid ladder market***	***Step 3 MT model***
	2017	2018 - 2019	2019 - 2020
Reserve	• R3 Standard: open R3 Prod to non CIPU • R3 Flex : open R3 DP to CIPU • ICH: no change but facilitate move to R3 Flex	• Possible stop ICH • R3 Down • Non CIPU R3 Standard and Flex are liquidity providers on Bid Ladder (ToE)	• Generic R3 & portfolio biddings • 1 GFA for all providers • Dynamic dimensioning • Congestion management
Energy	• Free bids: open to BRP & FSP (Bid Ladder with ToE) • Keep separate MO activation (free bids then R3)	• Free bids: open to BRP & FSP (Bid Ladder with ToE) • Act. price for all R3 bids (link TOE) • Common MO activation (free bids and R3)	• Full Bid Ladder platform • Standard products

Integration of reserve and energy

Nom & Controls	• No change (CIPU vs non CIPU)	• No change (CIPU vs non CIPU)	• Stop R3 CIPU nom • New Rx controls
Sourcing	• Monthly except ICH yearly	• Up: Monthly or shorter	• Daily with 4 hours blocks (?)
GFA	• GFA CIPU & GFA Non-CIPU	• GFA CIPU & GFA Non-CIPU	• GFA Generic

1. Efficient organisation of energy bid market (mFRRup)

Planning

- Q2 2018: ToE Bid ladder
- Q4 2018: ToE R3 non CIPU & Merit order implementation

Considerations:

- Elia committed externally for ToE & MO. But combo R3 standard/flex/bids is making implementation complex
- Integration of Flex product in MO: only complex suboptimal solutions possible & concerns by stakeholders
- Marginal pricing study demonstrates added but relatively low societal value, while implementation efforts seem important

Proposal for next steps

- For intermediate step Q4 2018: have MO only between R3Standard & Free Bids (hence keep R3Flex at end of MO)
- End 2019 new harmonised R3 standard product (daily sourced 6*4h). Stop R3 flex and hence achieve full MO *
- Bundle implementation of Marginal Pricing with the implementation of the new R3 product and the full MO

* Design and implication of stop Flex product will be studied early 2018

Structure of the Study

1. Possible evolutions towards daily procurement

- *Advantages*
- *Disadvantages*

2. Possible evolution towards a standard mFRR balancing capacity product

- *Advantages*
- *Disadvantages*
- *Pre-requisites*

3. Impact on reserve sharing

- *Does daily procurement allows for more possibilities in terms of reserve sharing?*

4. Impact of free bids on mFRR balancing capacity to procure

- *Does daily procurement allows for more possibilities to take free bids into account in sizing of capacity to procure?*

1. Possible evolutions towards daily procurement

Advantages

- ✓ *Allow a more liquid and efficient market*
- ✓ *Allow more market dynamics*
- ✓ *Allow a dynamic dimensioning of the reserve needs*
- ✓ *Allow more mobility of delivery point from one BSP to another*
- ✓ *Align with other reserve products*
- ✓ *Align with other EU countries*
- ✓ *Enables standardization of reserve products*

Disadvantages

- ✓ *Visibility on revenue for providers*
- ✓ *Operational burden (but mitigation measures foreseen)*
- ✓ *Operational risks in case of lack of volume in auction*

1. Possible evolutions towards daily procurement

Advantages - Allow a more liquid and efficient market

- **Zoom On:** Shorter time horizon allows a more efficient and liquid market because:
  - ✓ It reduces uncertainties regarding the capacities that would be technically available
  - ✓ It reduces uncertainties regarding the capacities that could be sold (throughout the month) in other electricity markets (with shorter time horizons) and also regarding the corresponding prices
  - ➔ Beneficial for all technologies

Recommendation to maximize the potential participation :

- ✓ Procurement lead time: as short as possible (e.g. day-ahead);
- ✓ Product duration: as short as possible (daily);
- ✓ Product resolution: higher (4 hours blocks).
- ✓ mFRR auction after FCR / aFFR but before DA energy market GCT

2. Possible evolution towards a standard mFRR balancing capacity product

Advantages

- ✓ *Better answer operational needs of the system*
- ✓ *All technologies treated the same way*
- ✓ *Allow a full merit order for the activation of mFRR energy bids*
- ✓ *Simplify products and processes*

Disadvantages

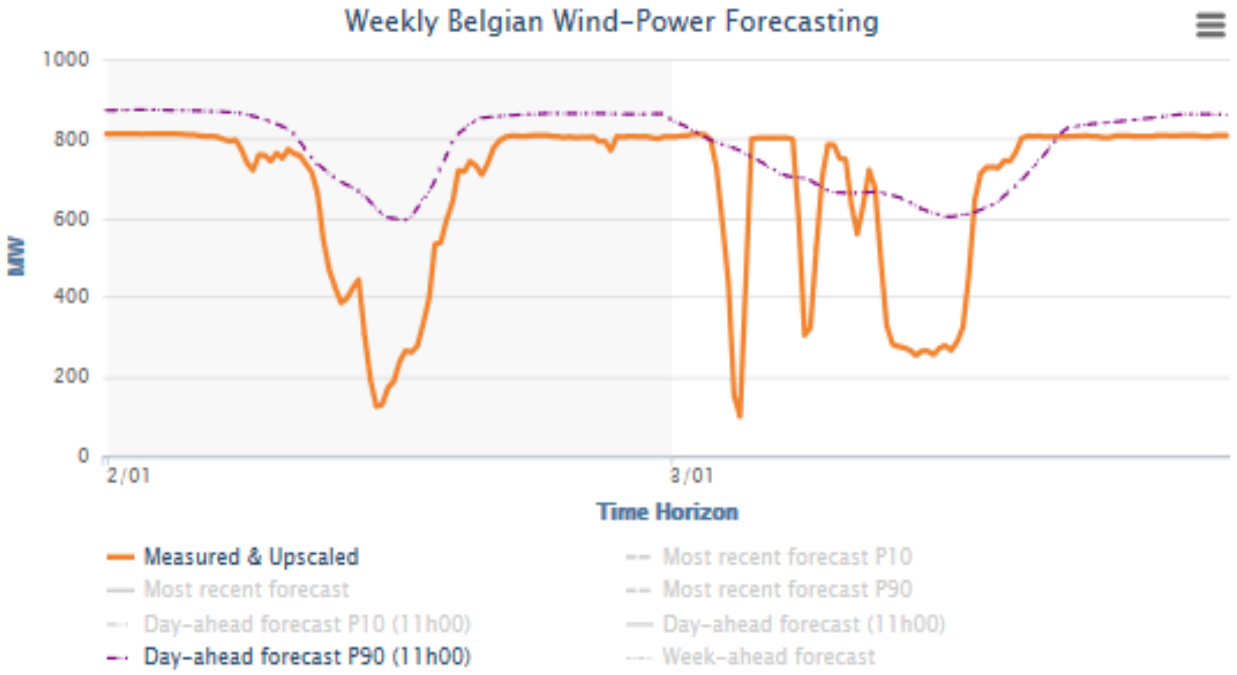
- ✓ *Risk of pushing some existing flexibility out of the market*

Pre-requisites

- ✓ *Daily procurement with 4 hours blocks*
- ✓ *Free activation price for all technologies with high price cap (13 500 €/MWh) with possibility to update price close to RT*
- ✓ *Activation of bids purely based on the financial merit order.*

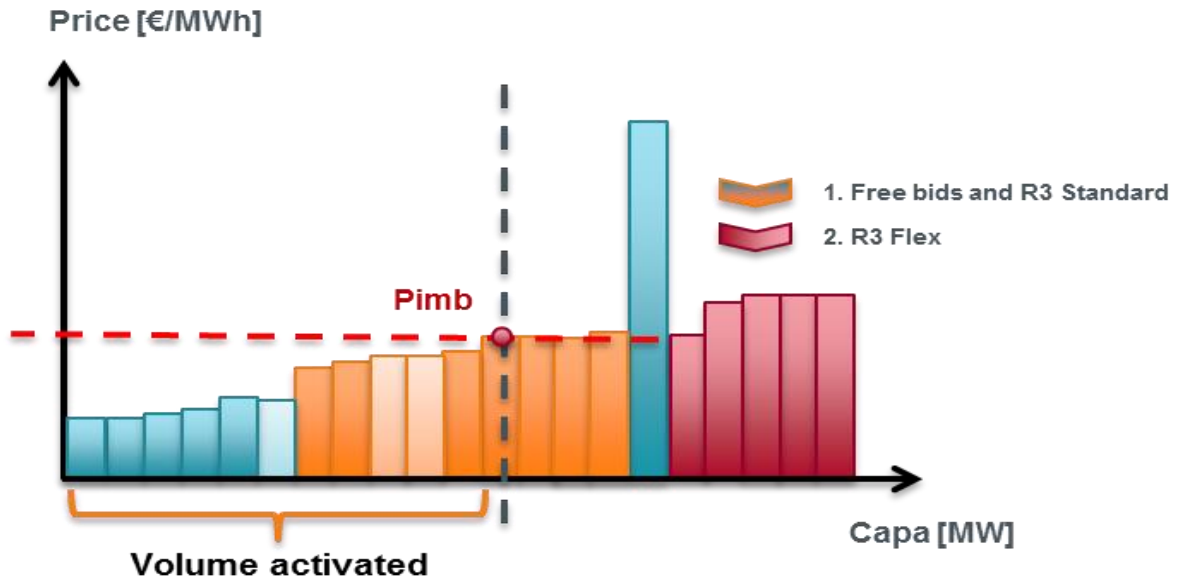
2. Possible evolution towards a standard mFRR balancing capacity product

- ✓ **Zoom On** *: Better answer operational needs of the system*
  - Storm events
  - Example storm on 03/01/2018



2. Possible evolution towards a standard mFRR balancing capacity product

- ✓ **Zoom On**: *Allow a full merit order for the activation of mFRR energy bids*
  - *Merit Order as of 1st of December with two R3 products*



3. Impact on reserve sharing

Reserve sharing that can be taken into account is limited by three constraints (third as of 2019):

1. The sharing agreements with the neighboring countries

2. The real time ATC on the borders with the neighboring countries in the corresponding direction

3. The rules set out by the European regulations (SOGL), i.e. the paragraphs (j) and (k) of Article 157
   - R3 Down: *limited to Delta (capa deterministic for N-1, capa probabilistic for imbalance 99%)]*
   - R3 Up: *limited to Delta (capa deterministic for N-1, capa probabilistic for imbalance 99%)]* *+ limited to 30% of N-1*

3. Impact on reserve sharing

Impact of daily procurement of those rules

1. The sharing agreements with the neighboring countries → No impact

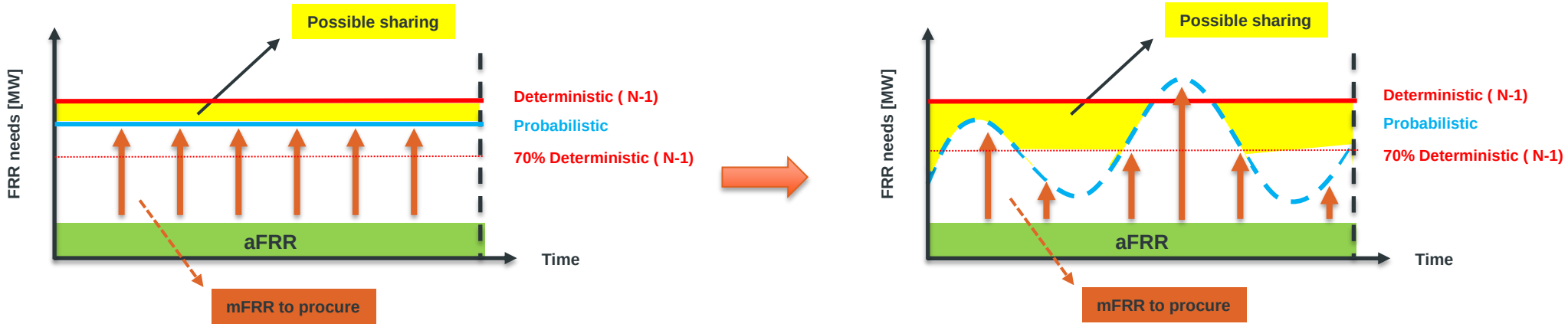
2. The real time ATC on the borders →
   - Forecasting before day-ahead energy market is very challenging (flow based)
   - Hence no impact expected

3. Constraints from Article 157 SOGL → Could mitigate the effect of this constraint

3. Impact on reserve sharing

3. Constraints from Article 157 SOGL

- Impact upwards mFRR

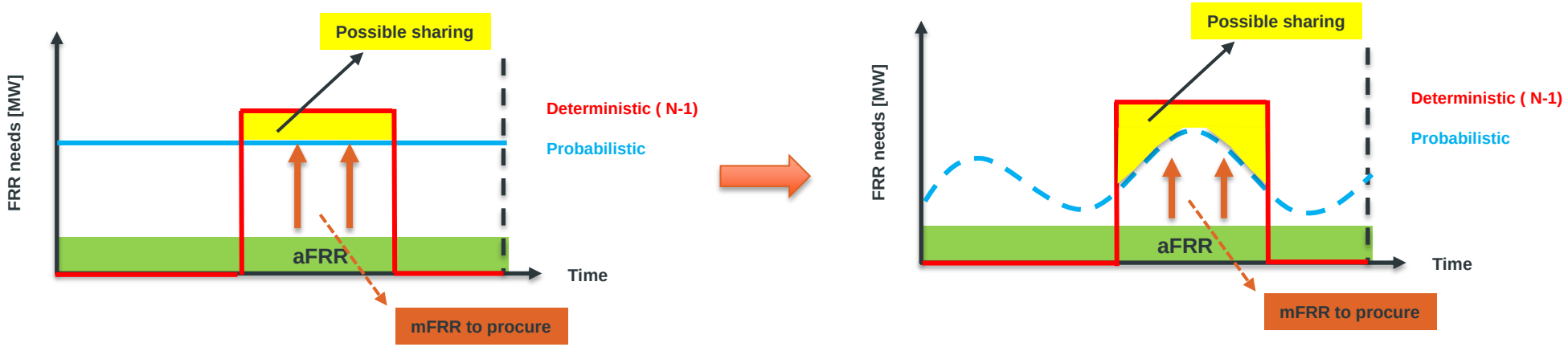


- Reserve sharing will be used in a more optimal way based on system conditions
- Next to dynamic dimensioning of needs, dynamic reserve sharing shall lead to dynamic volume to procure

3. Impact on reserve sharing

3. Constraints from Article 157 SOGL

- Impact downwards mFRR



- Reserve sharing will be used in a more optimal way based on system conditions
- Next to dynamic dimensioning of needs, dynamic reserve sharing shall lead to dynamic volume to procure

4. Impact of free bids on mFRR balancing capacity to procure

As Is:

- EU GL on Electricity Balancing : volume of non-contracted balancing energy bids (hereinafter referred to as “free bids”) expected to be available shall be taken into account for the provision of reserve capacity.
- However :
  - When the balancing capacity to procure in year-ahead absolutely no view is available on the amount of free bids that will be there in real time.
  - The volume of mFRR capacity to procure is set for the whole year but there are days during which no free bids will be available.
  - The EU GL on Electricity Transmission System Operation sets rules regarding the obligation to have always enough balancing capacity available to guarantee operational security.

→ **Currently no volume of free bids in dimensioning**

4. Impact of free bids on mFRR balancing capacity to procure

Impact of daily procurement of those rules:

- Daily dimensioning / procurement with a finer granularity (4 hours blocks) is an absolute pre-requisite
- 2 types of non-contracted bids:

- **Flexibility being offered as free bids in RT, but not being capable to be offered as R3**
  - ➔ In case of predictable patterns: can be considered by Elia as reserve

- **Flexibility being offered as free bids in RT, capable to be offered as R3**
  - ➔ Can be considered by Elia as reserve in case volume of non-contracted bids are sufficient enough to cover reserve needs by Elia

4. Impact of free bids on mFRR balancing capacity to procure

Impact of daily procurement of those rules:

- But other elements to be considered:

- **In case the reserve is delivered by substantial part of flexibility who's sole revenue is the capacity remuneration**

  ➔ Issue with stopping the reserve capacity market: flexibility will disappear

- **Recommended to take a structural decision on balancing capacity market or not**

  ➔ foreseeability and stability for market parties

5) Design product R3 down

R3 down product design – in / out of scope

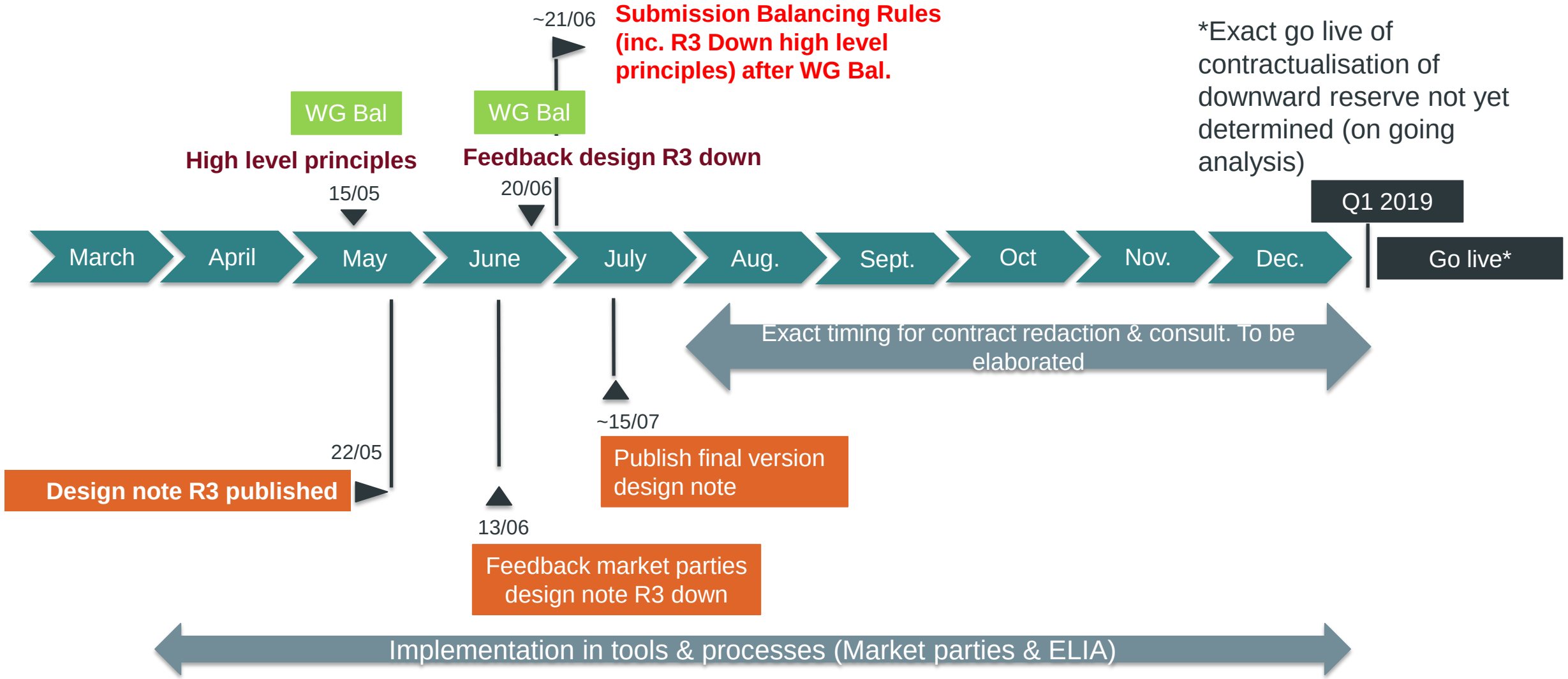
Determination of **needs**	Allocation to **means**	Contractualisation of reserves (if any)
As announced in WG Bal. 30/11/2017: • **Q1 2019** : dynamic determination of downward need (Outage only method) • **End 2019**: dynamic determination of up & downward need (more complex machine learning method	Dynamic procurement study presents how the possible means can be considered in the allocation to cover the dimensioned needs.	Determination of **optimal procurement cycle** presented in dynamic procurement study
Related documents which will be presented to market parties: • Dossier volume • **LFC bloc agreement**	Related documents which will be presented to market parties: • **Dynamic procurement** study • Dossier volume	

Contractualisation of reserves

- Procurement rules
- Product design

In scope

R3 down – timing proposal

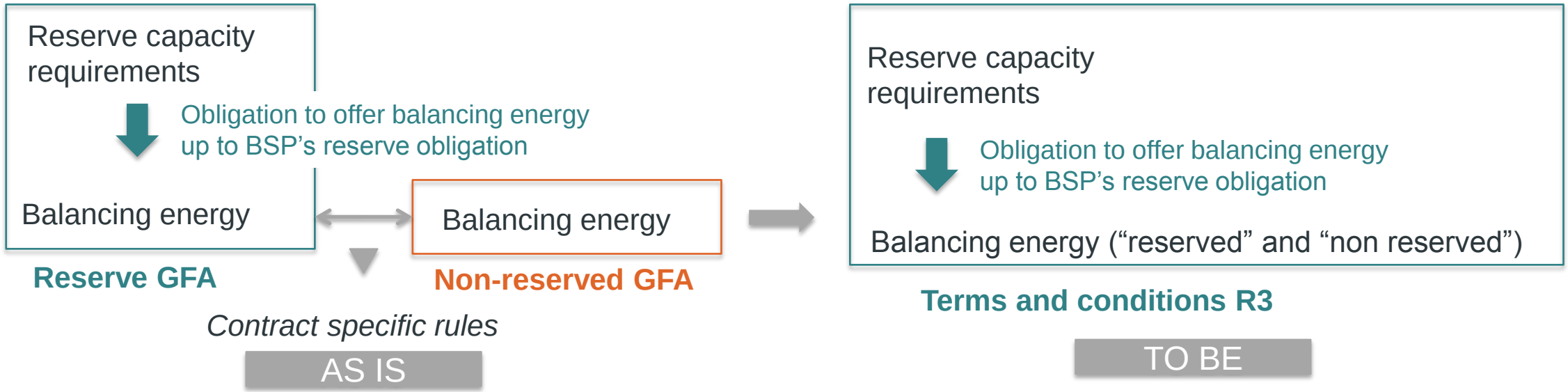


Structure of R3 down product design & product characteristics

Key assumptions	❑ Product characteristics
contractual organization	❑ LT AS contractual vision ❑ R3 down contractual structure
Prequalification	❑ Portfolio organization ❑ Prequalification process and simulation tests
Capacity reservation	❑ LT vision ❑ Bidding instructions R3 down
Energy bids nomination	❑ Nomination reserved and non reserved flex ❑ Transfer of energy
Availability tests	❑ High level principles ❑ Scope of availability tests
Activation control	❑ High level principles

R3 down product design – Key assumptions for design elaboration

1. Rules applicable to activation of balancing energy must be identical



2. 1 standard product, 15 min activation time

3. Daily procurement cycle – 6*4h

4. Pay as bid (both capacity & energy)

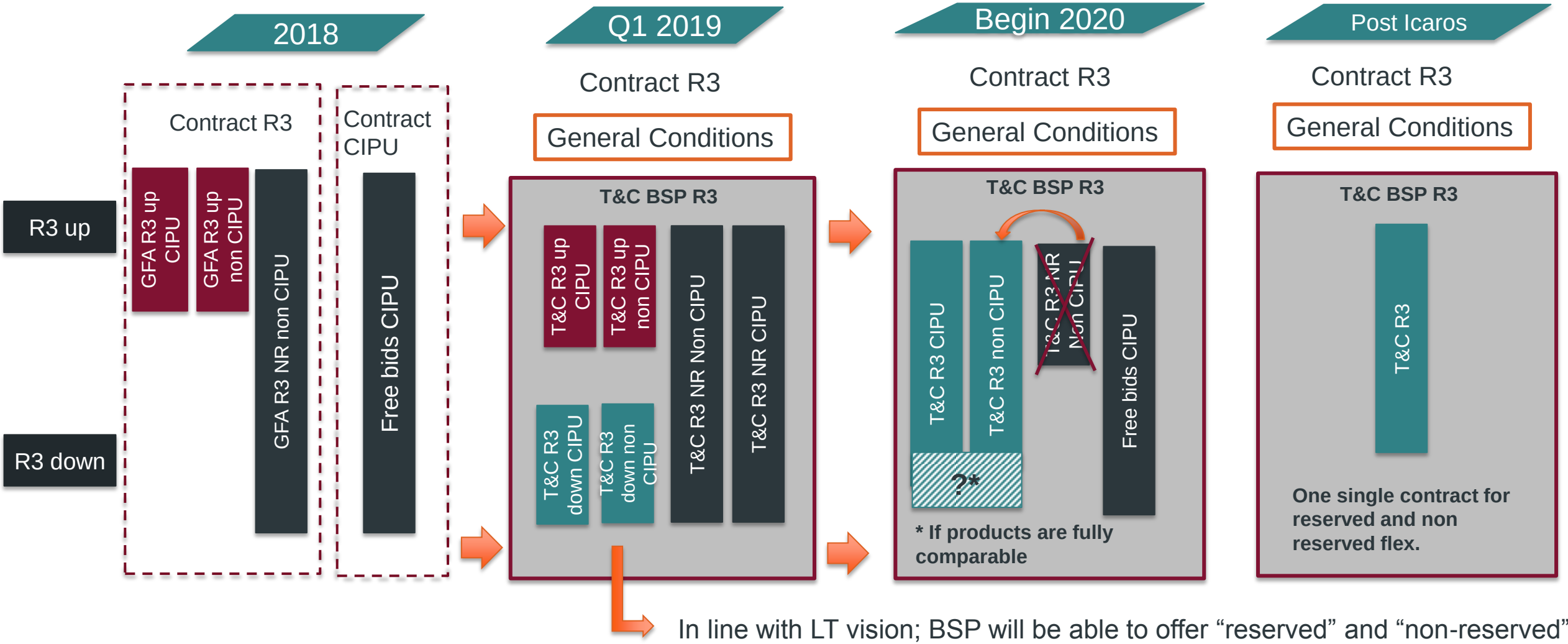
   → Evolution towards Pay as cleared was presented in specific study end 2017 (and consulted with market parties)

5. **ToE** applicable under same conditions than R3 up

6. Principles in line with R3 upward evolutions and AS LT product designs (FCR, aFRR, mFRR up)

7. New principles in line with SO GL and EB GL

Contractual organization



Product specific GFA (existing)

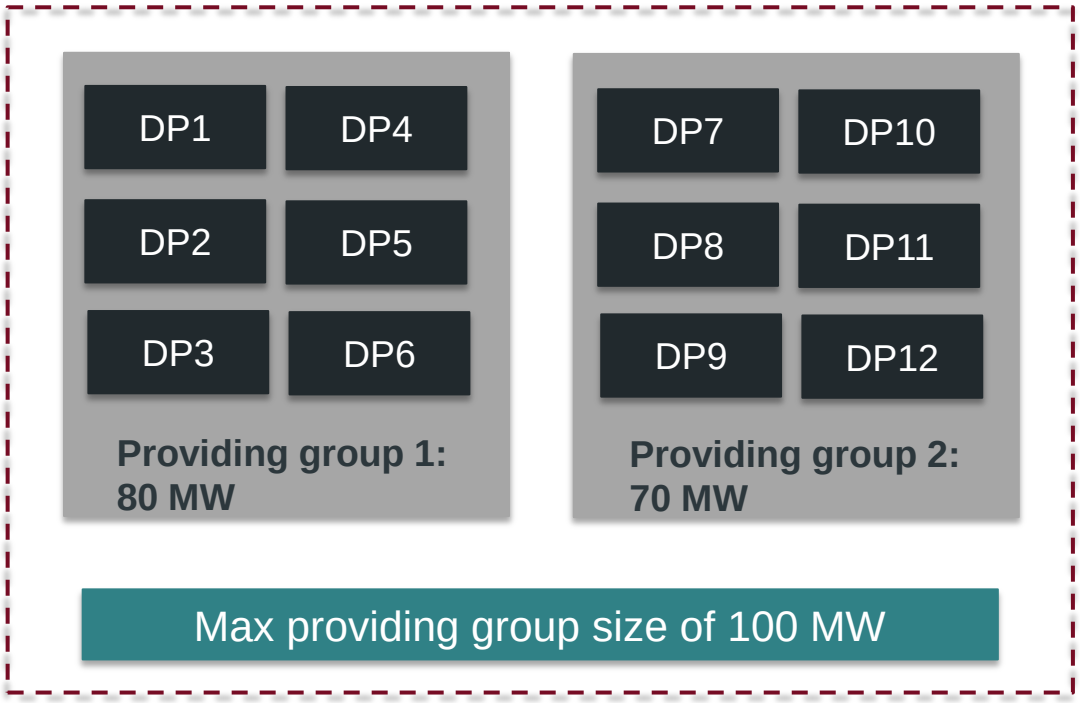
Contract applicable to both directions

New contract

In line with LT vision; BSP will be able to offer “reserved” and “non-reserved” balancing energy via the R3 down non CIPU GFA.
Combo differently implemented than for R3 up

R3 down – portfolio organization

BSP's portfolio



R3 max prequalified volume = ∑ max prequalified volume of each providing group

Principles

- Simulation test used to determine the **R3 max prequalified volume** only for **reserved flex**.
- BSP communicates **max mFRR value** for each DP. It represents the max. flex on the DP that can be offered for both reserved and non reserved flex.
- If BSP wants to add DP to its portfolio, he can choose :
  - **Individual simulation test** → The test result is then added to R3 max prequalified volume of the BSP
  - **Pool test** → BSP chooses one providing group of his pool in which he adds the DP and perform the test altogether.

In case max providing group size is reached; he must split the group and prequalify both

Why?

To limit the operational impact (dispatching) caused by prequalification tests;
To limit the costs of compensation bids required to avoid influencing imbalance because of prequalification tests

R3 down – Prequalification process

Prerequisite to prequalification → **Prequalification process**

Step 1 – Become a supplier

- ❑ Qualification form
- ❑ Evaluate supplier's candidature

Step 2 – Contract signature

- ❑ Sign GFA

Step 3 – offline tests

- ❑ Nomination process
- ❑ Verify contractual requirements and information on delivery points

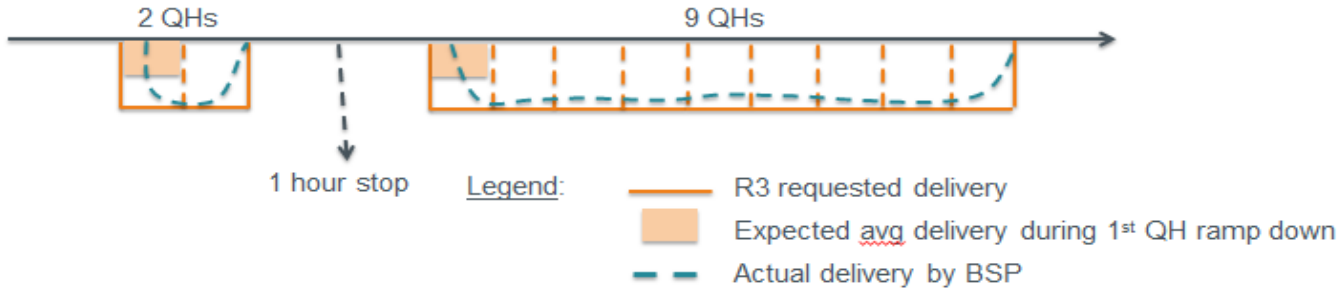
Step 4 - simulation test

- ❑ ToE / Opt-out clarified
- ❑ Test profile applicable
- ❑ IT communication (activation signal)

Step 5 – test results

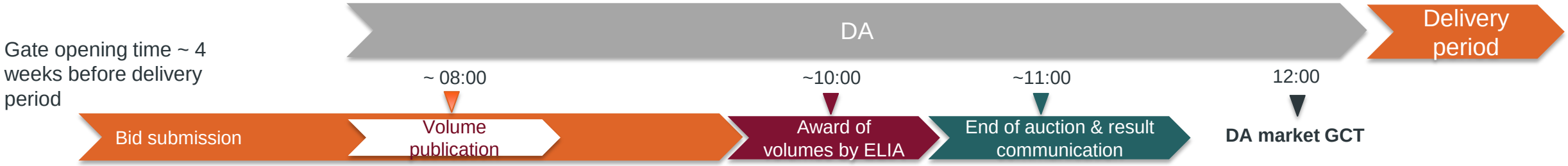
- ❑ Determine R3 max prequalified volume based on tests results

- ✓ Same test profile than R3 std non CIPU
- ✓ 3 objectives:
  1. max mFRR delivered;
  2. Respect the ramp constraints (15 min);
  3. Verify ability to start again after 1 hour stop (2 consecutive activations)



R3 down – capacity reservation

Starting assumption for elaboration of R3 down product design is daily procurement with delivery period of 4 hours



Applicable in 2019

- Total Cost Optimization
- Non combinable (exclusive) bids
- Indivisible bids possible

Why?

- Alignment with upward bidding instructions
- Allow the consideration of fixed costs if any (market depths and technical characteristics unknown as new product)
- Consistency with current bidding processes to minimize implementation at BSP side

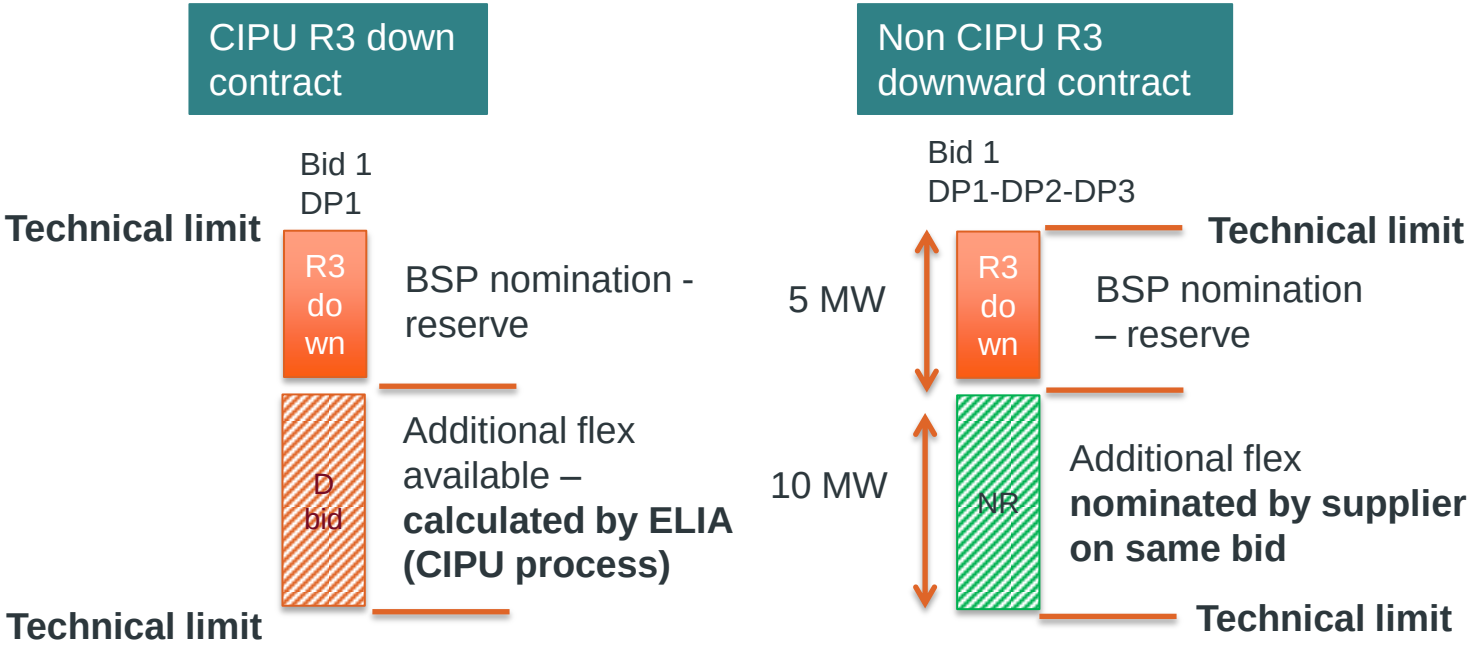
Disclaimers

- Indicative timing for capacity reservation
- Evolution of bidding instructions (MO, divisibility,…) being investigated in context of EU projects (MARI) and subject to outcome of dyn. Procurement study

R3 down balancing energy nomination

Energy nomination - characteristics

- ✓ One bid can contain **both "reserved" balancing energy** (related to capacity obligation) **and "non-reserved" balancing energy**;
- ✓ Both CIPU and non CIPU nominations happens in the **same platform** (BMAP);
- ✓ 1 activation price / bid;
- ✓ **Individual nomination** as soon as delivery point subject to individual MW scheduling obligation (ICAROS)
- ✓ **Flag** volume of **reserve** on the nominated bids (volume flagged = to reserve obligation)
- ✓ **ID** EAN of delivery point in the bid
- ✓ Usual **business checks** (with BSP's reserve obligation; BSP's prequalified volume,…)
- ✓ Fully **divisible** bid (similar to R3 up today)



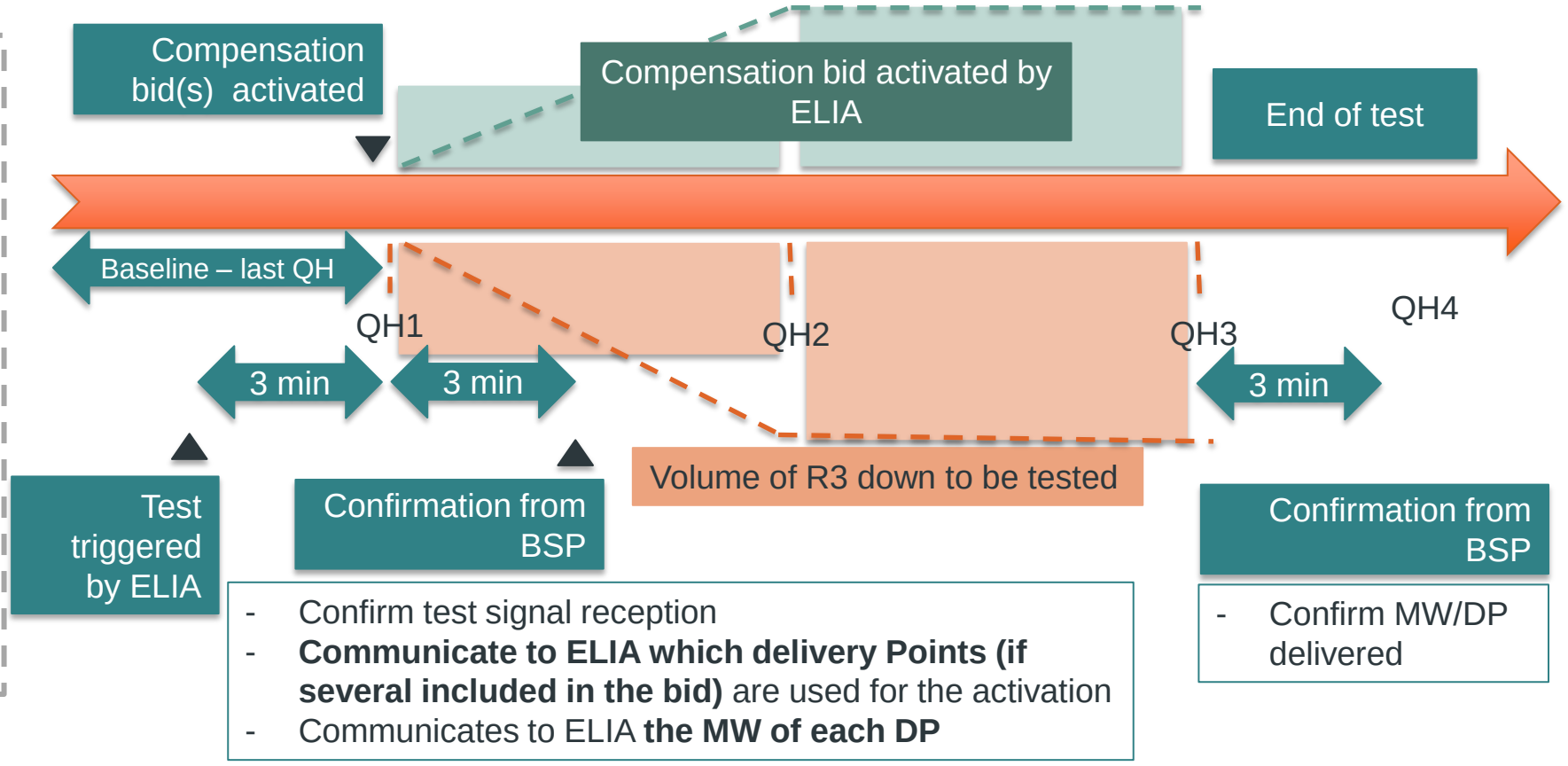
Remark: to maintain consistency with current CIPU procedures, prices for CIPU R3 down will be submitted following the CIPU process

R3 down availability test – high level principles

Objective of an availability test is to **make sure the reserve is effectively there**. Depending on energy activation price, it can happen that some volumes (end of MO) are rarely activated.

Principles

- ✓ Only on **bids** marked as ”reserve” (not on BSP obligation level)
- ✓ **Partial obligation** can be tested
- ✓ **No remuneration** (inc. in reservation price);
- ✓ Compensation bid may be required to neutralize impact on ELIA’s balancing perimeter;
- ✓ No impact on imbalance price
- ✓ Baseline = last QH;
- ✓ **ToE rules applicable;**
- ✓ On average 1 test / month / BSP (waiting for implementation of smart testing logic)
- ✓ Penalization in **€** and **reduction of prequalified volume**



R3 down activation control

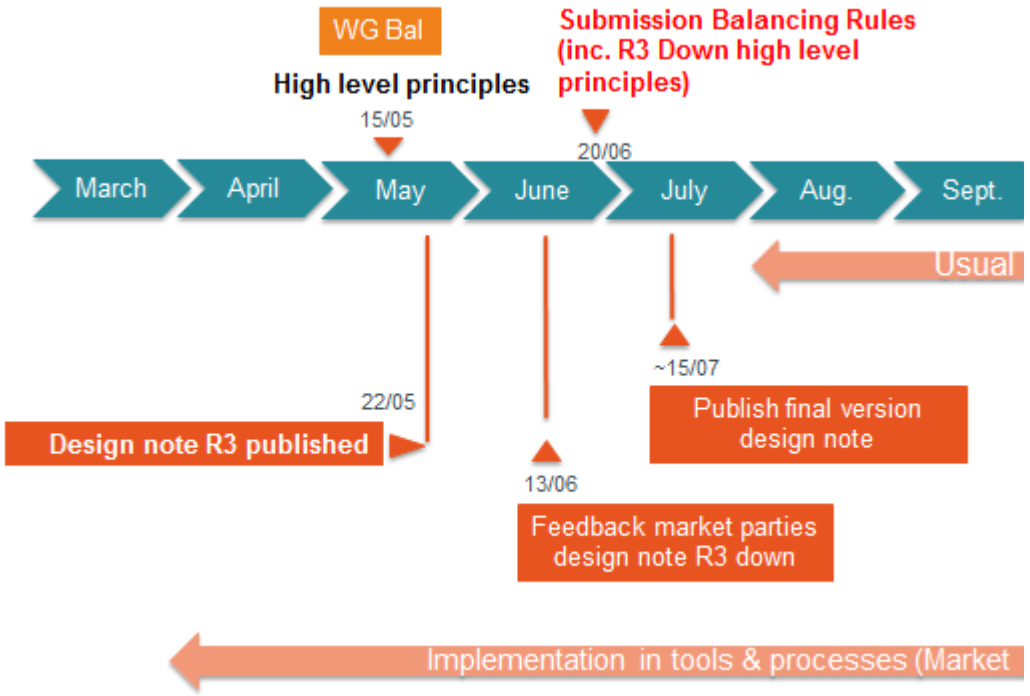
Financial penalty

- ✓ **Same logic than for R3 up can be applied for R3 down**: Imbalance tariff is already a financial incentive high enough for the BSP to deliver the required energy → No need **for an additional penalty mechanism as long as ELIA only considers BE local market**

Penalty related to volume

- ✓ Suspension of Delivery Point for 30 days in case of 2 consecutive incorrect deliveries over the last 12 months.

Next steps



Related to high level product design

- ❑ WG Balancing 15/05 (agenda sent 8/5)
- ❑ Publication design note (~22/05)
- ❑ Feedback market parties by **15/6**
- ❑ WG Balancing 20/6
- ❑ Introduction of high level principles in Balancing Rules (~21/6)

Related to detailed product design

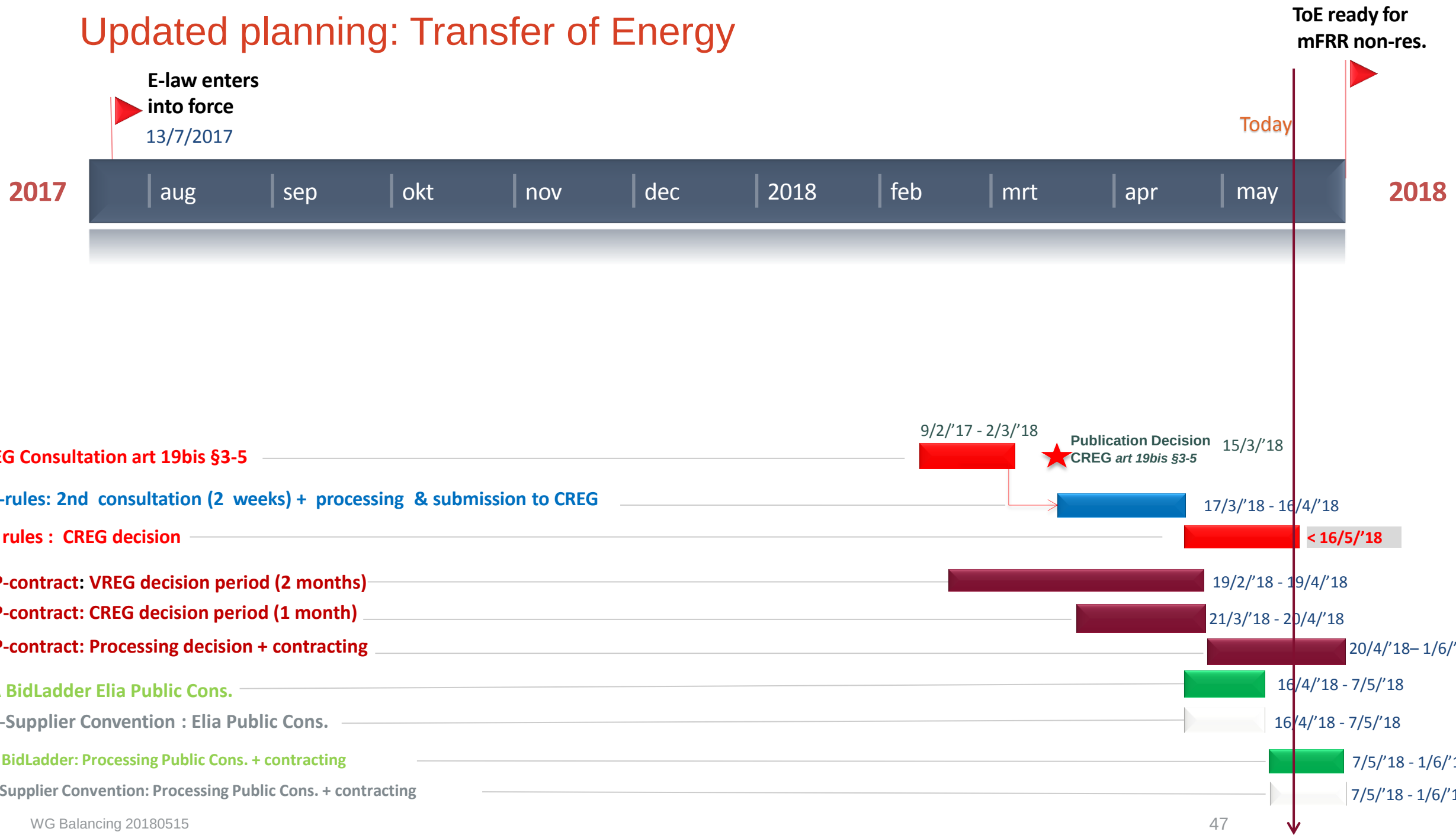
- ❑ Publication final product design (~15/07)
- ❑ Start contractual process (redaction; consultation, signatures)

➡ Once determined, exact timing will be communicated via WG Balancing

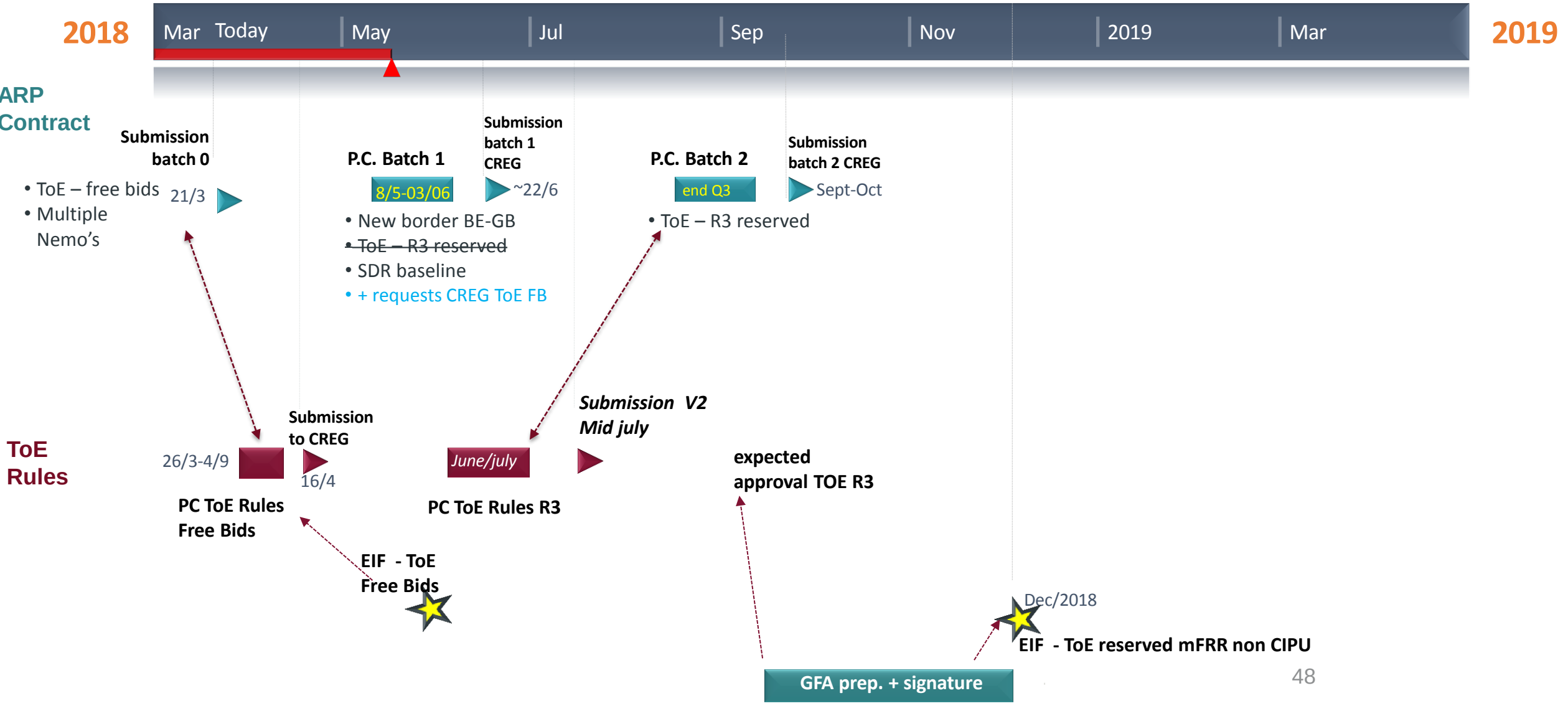
6) Status update on

- ToE for Bidladder
- Consultation ARP contract

Updated planning: Transfer of Energy

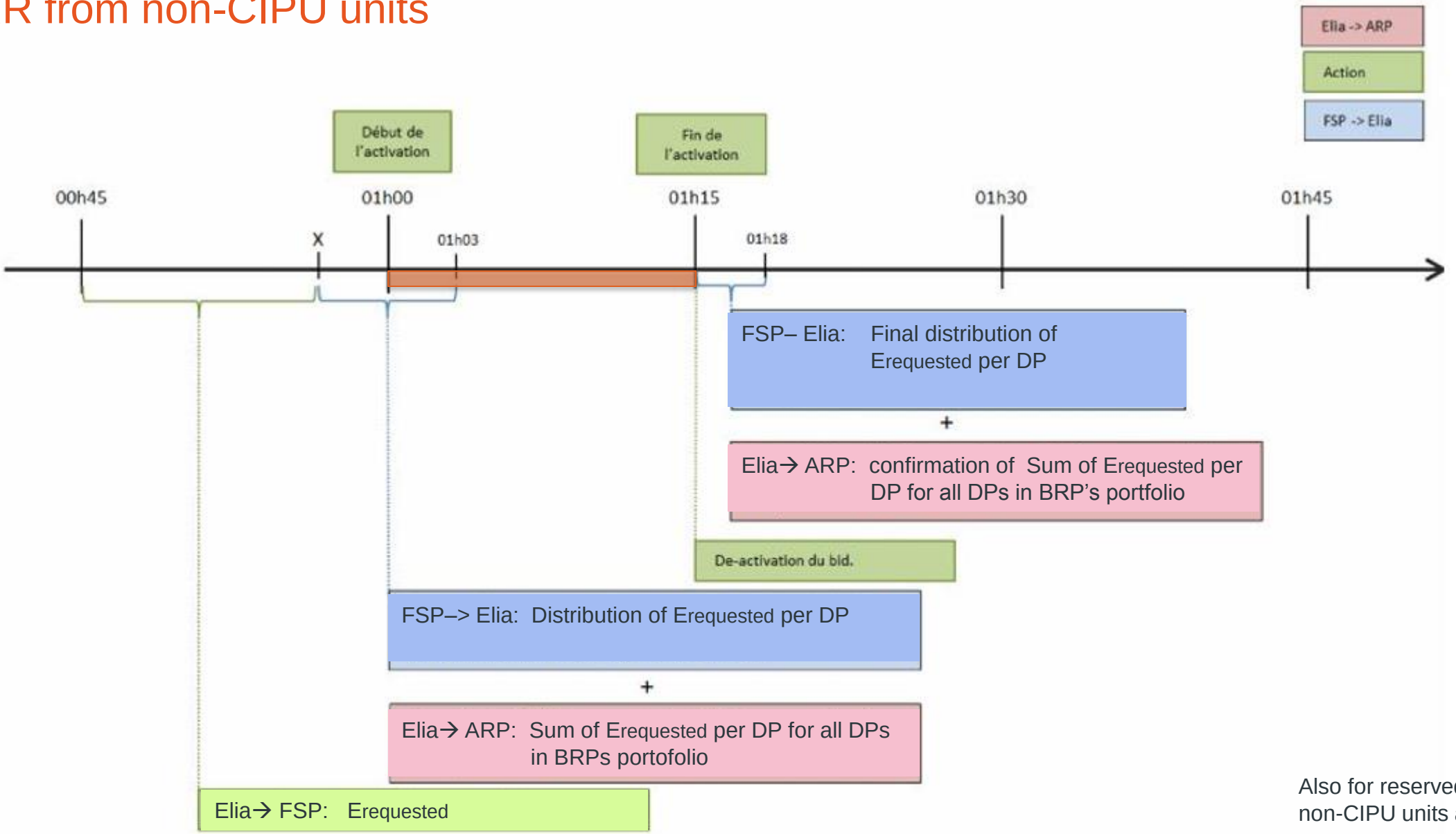


Overview of public consultations of ARP Contract and TOE Rules



Rem: Dates could be subject to further adaptations

Notification to ARPsource in case of activation of non-reserved* mFRR from non-CIPU units



Also for reserved mFRR from non-CIPU units as from 1/12

7) Datahub – FDM Document

Transfer of Energy – Market Exchanges

- ***15/05/2018***

Introduction

- This presentation describes the **technical specifications** for market exchanges of ‘transfer of energy’ volumes with commercial parties (suppliers and FSP’s) in the context of financial compensation between the parties
- Specifications will be described in a technical specifications document that will be published on the Synergrid website (see further)
- Files will be generated by and delivered on the **TSO/DSO Flex Data Hub platform** hosted by the Belgian electricity grid operators

General

- Volumes will be **aggregated** on the level of the **supplier** (for FSP's) and on the level of the **FSP** (for suppliers)
- In the case of a 'pass-through' contract (between customer and supplier) the volumes will be delivered to the suppliers on the level of the **individual** SDP Supply
- SDP Flex that are not subject to transfer of energy (net injection, opt-out) are excluded from the published volumes (aggregated or individual)

General

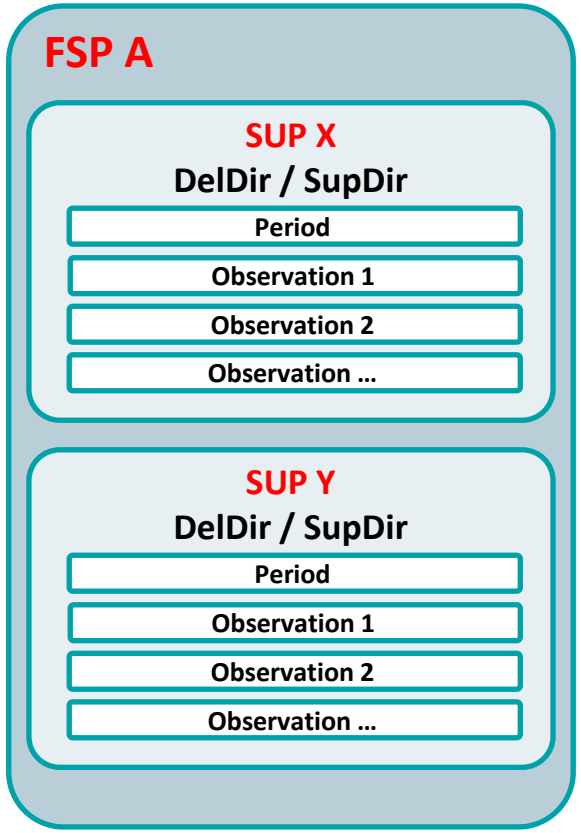
- Files will be in XML format and can be downloaded from an sFTP server on the Flex Data Hub platform
- Relevant market parties will receive an account with access to a specific sFTP folder that contains their files
- Receiving parties will be identified by the **enterprise number** of the company
- Aggregations will be done on the company level
- Volumes will be delivered on a monthly basis, the latest at **last day of M+2** (where M = the month the file contains the data for)
- Files will contains the volumes for a whole (calender) month

File types

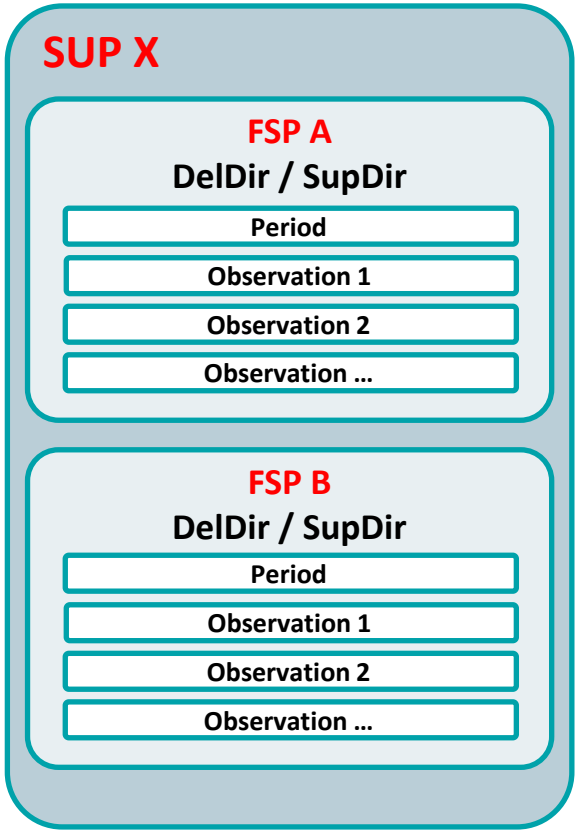
	Type 1 *Aggregated ToE volumes for FSP*	**Type 2** *Aggregated ToE volumes for Supplier*	**Type 3** *Individual ToE volumes for Supplier*
Receiver	FSP	Supplier	Supplier
Content	Aggregated ToE volumes per supplier	Aggregated ToE volumes per FSP	Individual ToE volumes per SDP Supply
Grouped by	Supplier Supply Direction Delivery Direction	FSP Supply Direction Delivery Direction	SDP Supply Delivery Direction
Format	XML	XML	XML

File types

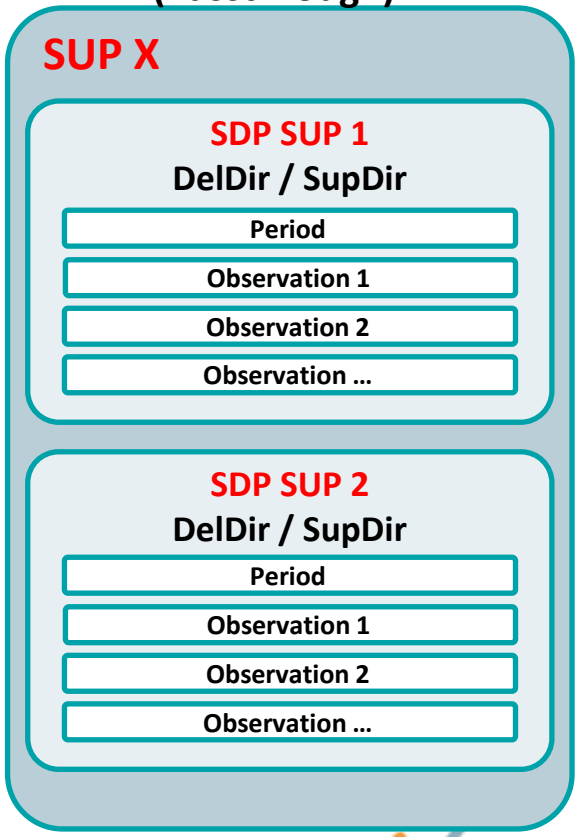
Type 1
Aggregated volumes for FSP A per Supplier



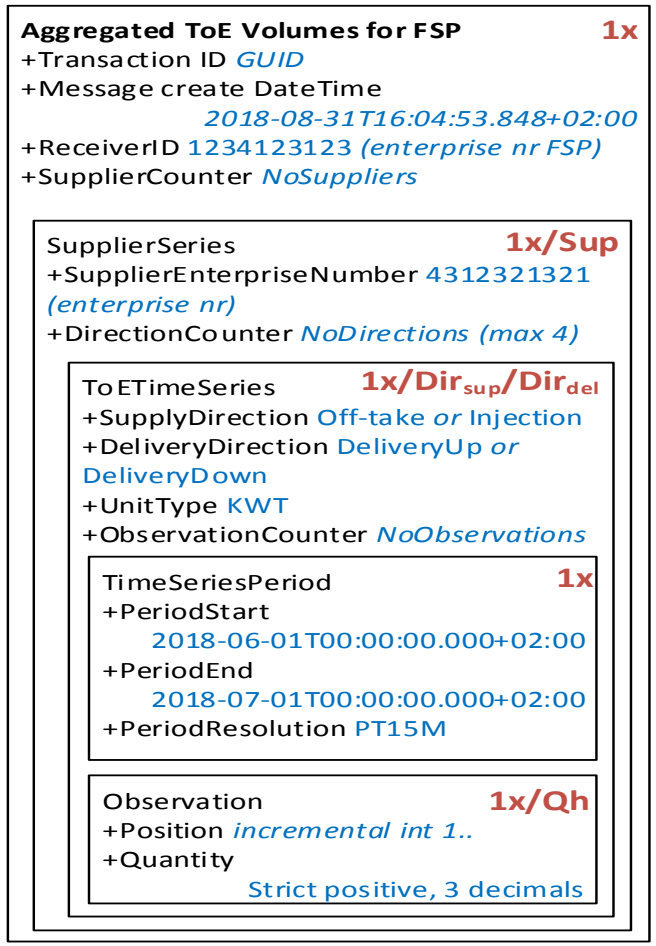
Type 2
Aggregated volumes for Supplier X per FSP



Type 3
Individual volumes for SUP X per SDP Supply (Passthrough)

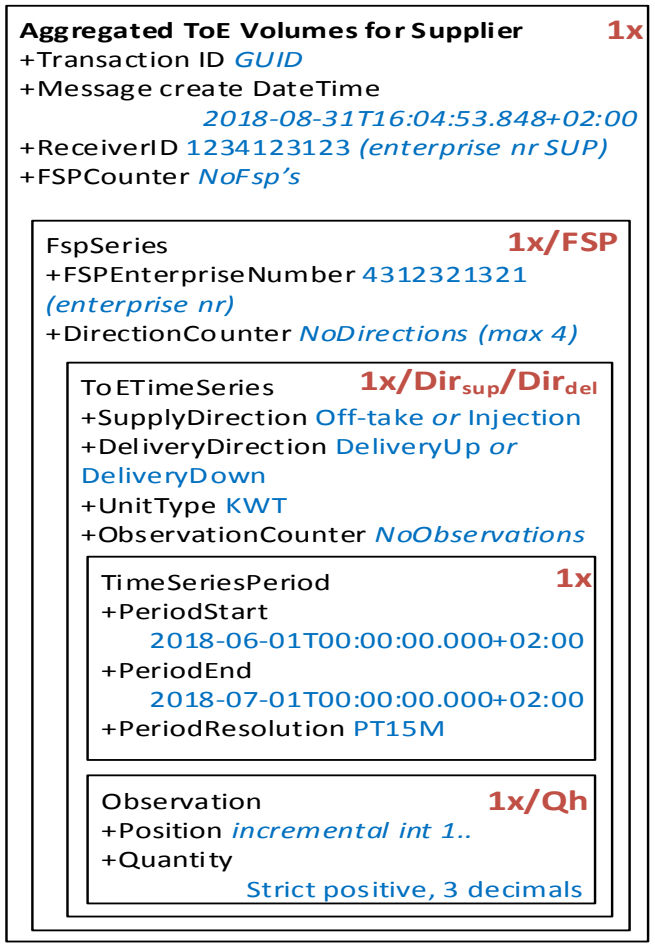


File type 1 : Aggregated ToE volumes for FSP



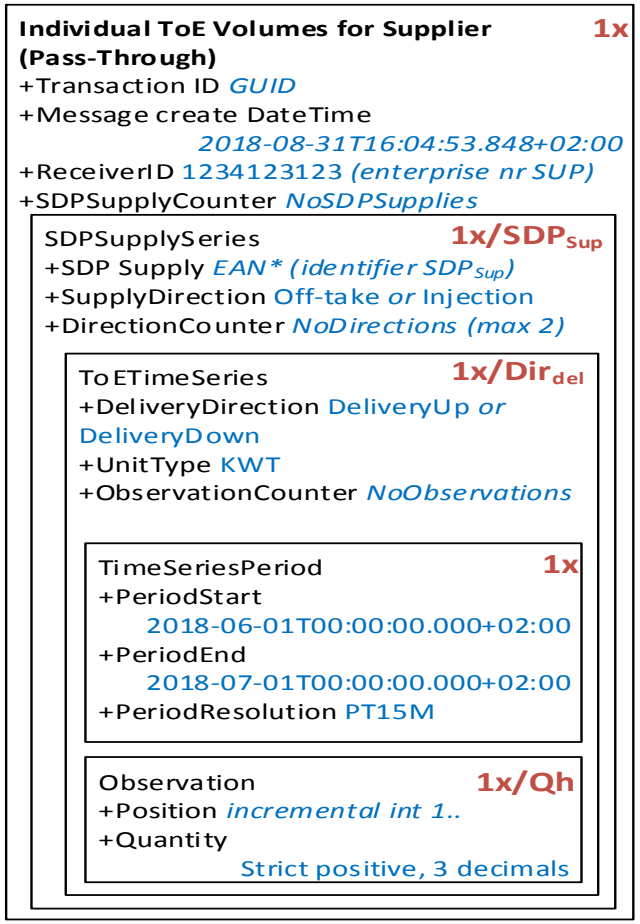
- **Transaction ID** : Unique ID of the transaction that created the file
- **Message create DateTime**
- **Receiver ID** : Enterprise number of the Receiver
- **SupplierEnterpriseNumber**
- **Supply Direction** : Off-take / Injection
- **Delivery Direction** : DeliveryUp / DeliveryDown
- **Unit Type** : KWT (fixed)
- **TimeSeriesPeriod** : always 1 full calender month
- **Observation** : only activated QH

File type 2 : Aggregated ToE volumes for Supplier



- **Transaction ID** : Unique ID of the transaction that created the file
- **Message create DateTime**
- **Receiver ID** : Enterprise number of the Receiver
- **FSPEnterpriseNumber**
- **Supply Direction** : Off-take / Injection
- **Delivery Direction** : DeliveryUp / DeliveryDown
- **Unit Type** : KWT (fixed)
- **TimeSeriesPeriod** : always 1 full calender month
- **Observation** : only activated QH

File type 3 : Individual ToE volumes for Supplier



- **Transaction ID** : Unique ID of the transaction that created the file
- **Message create DateTime**
- **Receiver ID** : Enterprise number of the Receiver
- **SDP Supply EAN**
- **Supply Direction** : Off-take / Injection
- **Delivery Direction** : DeliveryUp / DeliveryDown
- **Unit Type** : KWT (fixed)
- **TimeSeriesPeriod** : always 1 full calender month
- **Observation** : only activated QH

Definitions

- Type of power : **active power**
- Supply Direction : this refers to the direction of the energy flow between the network operator (TSO or DSO) and the client :
  - **Off-take** : power flows from the network operator to the client
  - **Injection** : power flows from the client to the network operator
- Delivery Direction : this refers to the effect of the flexibility delivered :
  - **DeliveryUp** : flexibility delivered to increase the frequency of the electricity network
  - **DeliveryDown** : flexibility delivered to decrease the frequency of the electricity network

Definitions

- Quantities : the volumes are provided as series of power values. These values represent the power delivered during value periods of 15 minutes (also known as quarter hour values).
- Units : **KiloWatt** (KWT)
- Time format : all time information is expressed in **local time** with a **time zone offset towards UTC**. The time zone offset takes into account the DST (daylight saving time) difference.
  - Examples :
    - 1/07/2018 00:00 in Brussels is expressed as **2018-07-01T00:00+02:00**
    - 1/12/2018 00:00 in Brussels is expressed as **2018-12-01T00:00+01:00**

File naming

- <FileType>-<FileTypeVersion>-<ReceiverID>-<Period>-<File ID>
  - Example : **`TOE01-01-5879654873-201806-5978124`**
- **FileType** : type of file
  - TOE01 : Aggregated ToE Volumes for FSP
  - TOE02 : Aggregated ToE Volumes for Supplier
  - TOE03 : Individual ToE Volumes for Supplier for SDP Supply with Passthrough contract
- **FileTypeVersion** : Identification of the File Type Version (XSD)
- **Receiver ID** : Company Number of the receiving company
- **Period** : the month the file contains data for (format 'YYYYMM')
- **File ID** : unique identification of the file

Access & Support

- Access to the platform
  - Obtain access to the sFTP folder : email to flexdatahub@synergrid.be
    Please provide :
    - FSP Name
    - FSP Company Number
    - Contact e-mail address

- Support
  - Email flexdatahub@synergrid.be

Technical documentation

- www.synergrid.be → Technische voorschriften → Elektriciteit
  - Document reference : **C8/05**

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- Resultaten Openbare Raadplegingen
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- Opdracht & activiteiten
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- Organisatie
- DNB in uw gemeente
- Elektriciteit en aardgas in België
- Statistieken en gegevens
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  - Gas: Technische voorschriften
  - Gas: Technische aanbevelingen

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Technische voorschriften Elektriciteit

De technische specificaties en lijsten met gehomologeerde materialen worden regelmatig aangepast. Wenst u op de hoogte te blijven van de nieuwste ontwikkelingen ? Laat het ons weten en stuur een email naar micheline.decupere@synergrid.be met de vermelding van de referentie : « Inschrijving MailingList Spec & Materiaal »

Code	Update	Beschrijving
S1/01	01/2016	Procedure voor aanvraag tot homologatie en verlenging van homologatie van materialen EN versie
C1/76	06.2002 (v1.2)	Regels van goed vakmanschap voor identificatie van ondergrondse elektrische energiekabels waarop werken dienen uitgevoerd te worden.
C1/106	09.2004	Specifieke technische voorschriften voor de aansluiting op het LS-distributienet van tijdelijke installaties voor werven (Rev 1.0)
C1/107	07.2017	Algemene technische voorschriften voor de aansluiting van een gebruiker op het LS-distributienet. De hiernaast gepubliceerde gecoordineerde versie is gebaseerd op de volgende documenten :

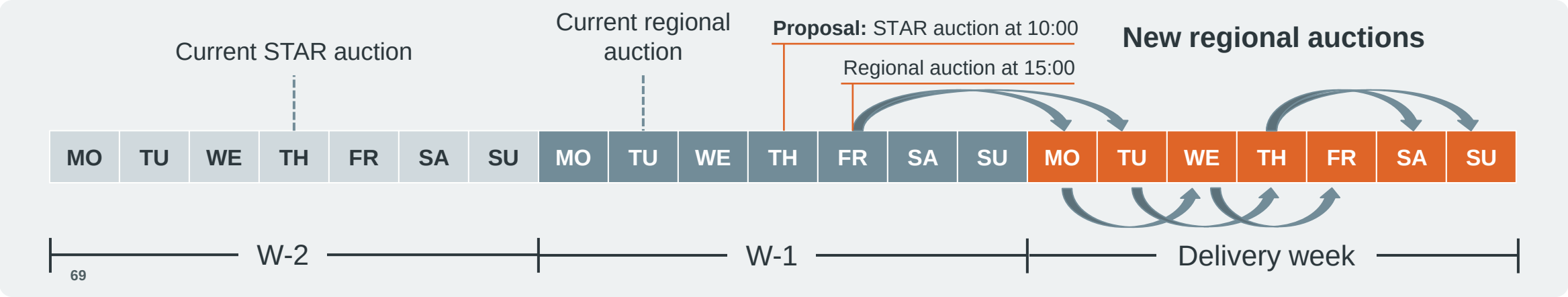
Thank you

8) R1

- Split R1/R2
- R1 procurement weekly: change of GCT

Proposal for new timing for STAR auctions

- Regional auctions will become daily on 27 November 2018 upon acceptance of the official proposal submitted to regulators of FCR Cooperation.
- Following this, we have the chance to shift our STAR auctions in W-1 to help BSPs better forecast their flexibility and Clean Spark Spread.
- Elia would propose to shift the timing of STAR auctions by one week (i.e. Thursday W-1 at 10:00).



Study on Separate procurement of FCR and aFRR

Scope of the study?

Analyze the conditions and consequences for:

1. Separate procurement of R1 and R2 reserves.
2. Separate procurement of R2up and R2down.

Status and next steps

- A stakeholder workshop tool place last week to explain the study and facilitate stakeholder feedback.
- Ongoing public consultation until 22nd May 2018. Comments are welcome.
- After the consultation, Elia will process the comments and adapt the document in order to give its view on an implementation approach.

Public Consultation Transfer of Energy rules

R3 2018 in a nutshell

- Activation price and ToE for R3 non-CIPU
- Common merit order activation for mFRR energy bids with unlimited number of activation (free bids and R3 Standard)

2017

1. Free bids €
2. R3 Std CIPU €
3. R3 Std Non CIPU No €
4. R3 Flex CIPU €
5. R3 Flex non CIPU No €
6. ICH No €

1st of Jan 2018

1. Free bids €
2. R3 Std CIPU €
3. R3 Std Non CIPU No €
4. R3 Flex CIPU €
5. R3 Flex non CIPU No €

- ***Stop ICH***

1st of Dec 2018

1. Free bids & R3 Standard € — (Non) contracted mFRR unlimited # act
2. R3 Flex € — Contracted mFRR limited # act.

- ***Act. Price and ToE R3 non-CIPU***
- ***Merit Order mFRR***