

# Implementation Network Codes

WG Belgian Grid  
21 April 2017

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# Overview

- 1. Status & Next steps TF “Implementation Network Codes”**
- 2. The further process on implementation NC: planning**
- 3. Non-NC driven changes to the Federal Grid Code**
  - a) CDS – Discussion position paper
  - b) Work plan 2017 Q2

# Status NC adoption – Summary

= recent evolutions

| Network Code   | Status                              | Best guess(!) for “entry into force” |
|--|-------------------------------------|--------------------------------------|
| <b>Market codes:</b>                                 |                                     |                                      |
| Capacity Allocation and Congestion Management (CACM) | Entered into force                  | 14/08/2015                           |
| Forward Capacity Allocation (FCA)                    | Entered into force                  | 16/10/2016                           |
| Electricity balancing (EB)                           | Approved in Comitology (16/03/2017) | Q4 2017                              |
| <b>Connection codes:</b>                             |                                     |                                      |
| Requirements for generators (RfG)                    | Entered into force                  | 17/05/2016                           |
| Demand Connection Code (DCC)                         | Entered into force                  | 07/09/2016                           |
| HVDC (HVDC)  | Entered into force                  | 28/09/2016                           |
| <b>Operational codes:</b>                            |                                     |                                      |
| Operational Security (OS)                            | Approved in Comitology (04/05/2015) | June 2017                            |
| Operational Planning & Scheduling (OPS)              |                                     |                                      |
| Load Frequency Control & Reserve (LFCR)              |                                     |                                      |
| Emergency & Restoration (E&R)                        | Approved in Comitology (24/10/2016) | Q3 2017                              |

Merged  
in one  
guideline

# 1. Status & Next steps

## TF “Implementation Network Codes”

a) 2nd iteration SGU

## a) 2nd iteration SGU

- **1/2/2017 ('session 1'): Elia wrap-up presentation** ('Technical summary') – No updated proposal (yet)
- **21/2/2017 ('session 2'): Stakeholder feedback** from Febeliec, BGA and Synergrid
  - **Febeliec:** presentation covering the entire scope outlining Febeliec's main concerns + extra position paper with detailed feedback on the "Technical Summary"
  - **BGA:** presentation covering the entire scope outlining (in addition to the earlier positions provided by BGA)
  - **Synergrid:** presentation with focus on "Technical requirements for generators to distribution Grid"
- **27/3/2017 ('session 3'): Elia feedback – towards updated proposal**
  - **Elia:** Updated proposal towards limits ABCD, in coordination with Synergrid (see next slide)
- **Q2 2017: Formal public consultation** by Elia on limits ABCD
  - Proposal SGU of the 1st iteration has been reviewed in the 2nd iteration, considering the technical discussion per topic
  - This 2nd Iteration SGU are the final discussions in the Task Force Implementation NCs
  - A formal public consultation on the limits ABCD will take place in Q2

## a) 2nd iteration SGU

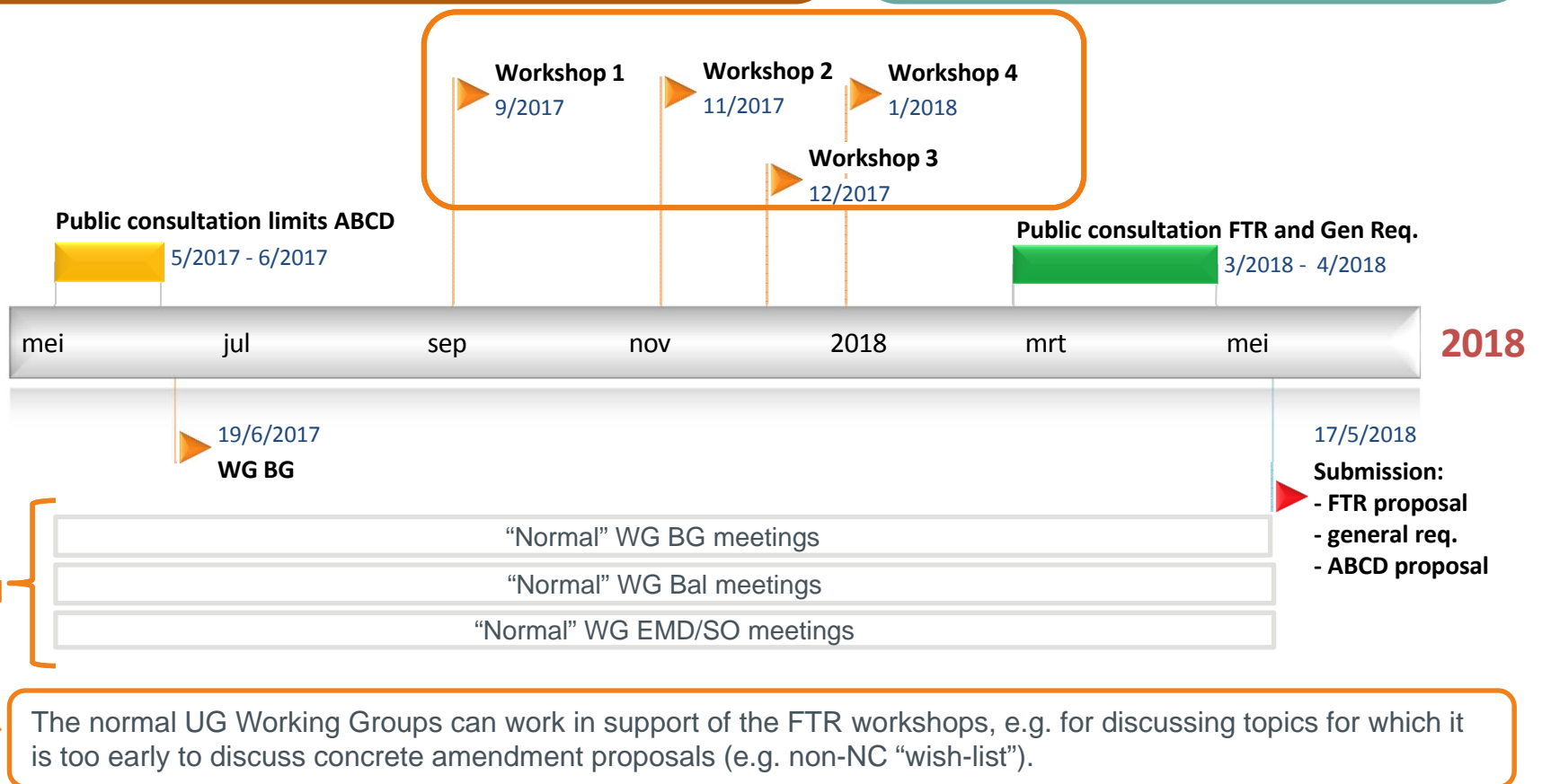
- **27/3/2017: Elia feedback - towards updated proposal**
  - **Elia feedback** on many stakeholder comments/questions/proposals: updated or re-confirmed position, clarifications to avoid misunderstandings,...
  - **Aim for harmonizing requirements** with neighbouring countries and with standards, where possible in the Belgian context
  - **Updated proposal towards limits ABCD**, in coordination with Synergrid:
    - **Limit AB**: the technical reality aimed for indicating which requirements for 250kW-1MW are key for the relevant system operators has been clarified, but:
      - Further legal analysis is needed to judge on which implementation roadmap is the better
        - Either limit AB @250 kW + derogations for type B between 250kW and 1 MW
        - Either limit AB @1MW + extra “national” requirements for type A between 250kW and 1 MW
      - Need for ‘flexibility’ to review the limit/technical requirements if over time the group of installations between 250 kW and 1 MW would grow and cause problems, while avoiding changing the framework too often
    - **Limit BC**: confirmation of position 25 MW
    - **Limit CD**: confirmation of position 75 MW
    - **Derogations** needed to ensure that **type A and B units above 110 kV** are considered **not as type D**

## 2. The further process on implementation NCs

# Proposal: UG process for adapting the Federal Grid Code and developing General Requirements

- Task Force “Implementation Network Codes” has ended.
- 4 dedicated workshops for discussing:
  - Federal Grid Code impact and amendment proposals
  - Progress on general requirements
- All interested parties are welcome.

- More details on the **agenda for the different workshops** will be providing no later than next WG BG
- **All workshop material** will be distributed prior to the workshop allowing preparation by all parties + everything will be published on elia.be





### **3. Non-NC driven changes to the Federal Grid Code**

a) Work plan 2017

b) CDS – Discussion Position Paper

## a) Work plan 2017

**SAME SLIDE AS  
PREVIOUS WG BG**

### Context:

- During 2016 a list priority topics was determined.
- Also, for each topic a timing and approach was determined
- 3 activities have already started (either today or already end 2016), of which the topic on capacity reservation is yet closed

### Reminder on role of WG Belgian Grid members:

However, in order to keep pace with the proposed timings, **everyone is kindly reminded about the determined timings and approach**, incl. from whom more elaborated proposals are expected (cf. mail reminder earlier this month).

➔ Please indicate to Isabelle Gerkens if you wish to make a contribution on one of the identified topics during one of the next meetings.

### Which topics?:

Next 2 slides repeat the topic list (cf. earlier WG BG meetings) and indicate where further stakeholder input was asked.

# Non-NC driven changes to the Federal Grid Code Work Plan: a kind reminder (2/3)

In general, there is a **need to further specify the ideas** raised in the contributions received. Therefore, more detailed scoping debates and/or exchange of positions is required before entering into re-drafting the grid code.

→ **Stakeholders and/or Elia are proposed to provide first inputs to the debate.**

→ **Whenever a debate is already ongoing/foreseen, it is proposed to make the link with these debates**

| Topic  | Forum  | Approach   | Starting ...                                      |
|--|--|--|---|
| <b>Definitions</b>                                   | WG Belgian Grid<br>(unless specifically linked to other items dealt with in other WGs) | <ul style="list-style-type: none"> <li>Start with definitions supporting the 'Significant Grid User'-debate and their links with existing definitions in the Federal Grid Code</li> <li>Discuss need and scope of items already proposed in the written contributions</li> <li>Call for more exhaustive inventory</li> </ul> | <b>Presented on 7 March 2017</b>                  |
| <b>CDS</b>   | WG Belgian Grid  | Build on state-of-play/earlier reflections. Elia will provide a first proposal for discussion.   | <b>Ongoing</b>                                    |
| <b>Capacity reservation</b>                          | WG Belgian Grid  | <ul style="list-style-type: none"> <li>Present and check whether the proposal is still OK.</li> <li>Check whether it can already be introduced independent from NC-driven process changes</li> </ul>   | <b>Closed</b>                                     |
| <b>Grid Losses</b>                                   | WG Belgian Grid  | <b>Stakeholders are invited to present their vision and proposals</b>  | <b>Starts today (21 April 2017)</b>               |
| <b>Market roles &amp; responsibilities &amp; BRP</b> | WG Belgian Grid  | Scoping debate needed in WG BG to pinpoint which concrete aspects can be covered. <b>All stakeholders are invited to further detail their ideas, focused on the Federal Grid Code.</b><br>This topic should also cover BRP-aspects.  | Q2 2017   |
| <b>Supplier</b>                                      | WG Belgian Grid  | <ul style="list-style-type: none"> <li><b>Stakeholders are asked to provide their more concrete ideas and suggestions.</b></li> <li>More generally, linked to market roles &amp; definitions.</li> </ul>   | To be linked to ongoing debate on Access Contract |

# Non-NC driven changes to the Federal Grid Code Work Plan: a kind reminder (3/3)

In general, there is a **need to further specify the ideas** raised in the contributions received. Therefore, more detailed scoping debates and/or exchange of positions is required before entering into re-drafting the grid code.

- **Stakeholders and/or Elia are proposed to provide first inputs to the debate.**
- **Whenever a debate is already ongoing/foreseen, it is proposed to make the link with these debates**

| Topic                             | Forum                        | Approach   | Timing                        |
|-----------------------------------|------------------------------|--|-------------------------------|
| <b>Storage</b>                    | WG Belgian Grid              | <ul style="list-style-type: none"> <li>• Elia will facilitate a debate on the need to introduce storage connection requirements in the Federal Grid Code</li> <li>• <b>Stakeholders are invited to provide their input</b> on the concrete needs for the Federal Grid Code related to storage</li> </ul> | Q2 2017                       |
| <b>Aspects linked to metering</b> | WG Belgian Grid              | <b>Stakeholders are invited to further explain their views</b> on how the FGC should evolve for this topic   | Q2 2017                       |
| <b>Flexible Access &amp; CIPU</b> | WG Belgian Grid (/WG SO&EMD) | Regional evolutions to be taken into account and compatibility at federal level to be checked/discussed. To be discussed along/after the discussions already launched  | Q3 2017                       |
| <b>AS (product design)</b>        | WG Balancing                 | Integration with overall Roadmap and NC requirements   | To be linked to other debates |
| <b>AS (market design)</b>         | WG Balancing                 | Integration with overall Roadmap and NC requirements   | To be linked to other debates |