

Implementation Network Codes

WG Belgian Grid
07 November 2017

Overview

- 1. Implementation Network Codes: status**
- 2. The further process on implementation NC**
- 3. Adaptation Federal Grid Code**
 - Preparation 2nd Workshop on 23/11 – Market aspects

Implementation Network Codes: status

Status NC adoption – Summary

= changes since last WG Belgian Grid

Network Code	Status	Best guess(!) for “entry into force”
Market codes:		
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)	December 2017
Connection codes:		
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
Operational codes:		
Operational Security (OS)	Entered into force	14/09/2017
Operational Planning & Scheduling (OPS)		
Load Frequency Control & Reserve (LFCR)		
Emergency & Restoration (E&R)	Approved in Comitology (24/10/2016)	Nov/Dec 2017

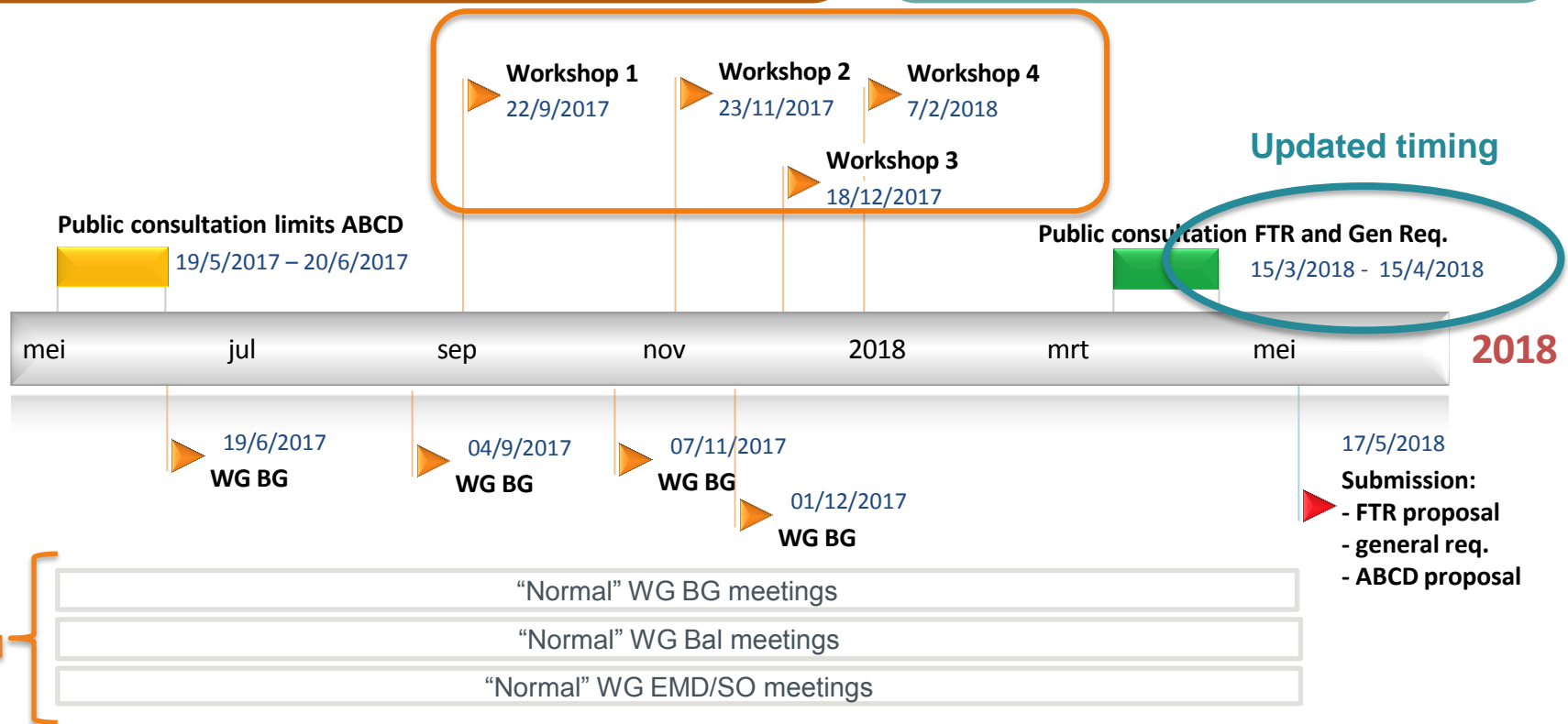
Merged in one guideline

The further process on implementation NC

Planning and agenda workshops with focus on Federal Grid Code and 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.

- **All workshop material** will be distributed prior to the workshop allowing preparation by all parties + everything will be published on elia.be



The normal UG Working Groups can work in support of the FTR workshops, e.g. for discussing topics for which it is too early to discuss concrete amendment proposals (e.g. non-NC “wish-list”).

Indicative planning: workshop with focus on FTR and general requirements

Workshop	Topics to be presented
Workshop 2 23 Nov 2017 09:00 – 17:00 Elia Schaarbeek	<ol style="list-style-type: none">1. Feedback from previous workshop2. Federal Grid Code: mainly market related aspects, such as:<ul style="list-style-type: none">• Balancing, BRP, ancillary services, access• CACM/FCA• CDS (aspects not related connection – based on Position Paper CDS)• Definitions• Ad hoc points3. Technical discussion ‘general requirements’<ul style="list-style-type: none">• Wrap-up General Requirements• Presentation general requirements DCC• Presentation general requirements RfG


UG involvement: FTR workshops

Workshop	Topics to be presented
<p>Workshop 3 18 Dec 2017</p> <p>09:00 – 17:00</p> <p>Royal Library</p>	<ol style="list-style-type: none">1. Feedback from previous workshops2. Federal Grid Code, mainly on connection, DSO<ul style="list-style-type: none">• Connection-related aspects (continued from workshop 1)• CDS (connection-related aspects)• Storage requirements• HVDC• DSO aspects• E&R• Ad hoc points3. Technical discussion ‘general requirements’<ul style="list-style-type: none">• Presentation general requirements HVDC• Presentation general requirements RfG, DCC
<p>Workshop 4 7 Feb 2018</p> <p>09:00 – 17:00</p> <p>Royal Library</p>	<ol style="list-style-type: none">1. Feedback from previous workshops2. Track change proposals<ul style="list-style-type: none">• Definitions (& generalities)• Metering• Market aspects: CIPU, Gflex, Storm risk• Ad hoc points3. Technical discussion ‘general requirements’<ul style="list-style-type: none">• Presentation General Requirements RfG, DCC and HVDC

Status General Requirements RfG, DCC and HVDC

	NC RfG	NC DCC	NC HVDC
1st Workshop 22/09/2017	Presentation draft GR document	N/A	N/A
2nd Workshop 23/11/2017	Presentation update draft GR document	Presentation draft GR document	N/A
3rd Workshop 18/12/2017	Presentation update draft GR document	Presentation update draft GR document	Presentation draft GR document
4th Workshop 07/02/2018	Presentation final (draft) GR document	Presentation final (draft) GR document	Presentation final (draft) GR document

Detailed presentation WG SO-EMD on 12/12



- Due to technical content, the **general requirements HVDC** will only high-level be presented in this 3rd Stakeholder workshop. These general requirements HVDC will extensively be presented in the WG System Operations and European Market Design (WG SO-EMD) on 12th December.
 - Other Network Code item on the agenda of the WG SO-EMD on 12th December is the proposed approach on **Emergency & Restoration**

Preview 2nd Workshop Federal Grid Code and General Requirements

Planning communication of documents 2nd FGC Workshop

9
November

- Proposed Federal Grid Code track changes + explanations: market aspects, CDS, definitions
- proposal General Requirements RfG and DCC

16
November

- Supporting presentations Federal Grid Code track changes and General Requirements

23
November

- 2nd Stakeholder Workshop Federal Grid Code and General Requirements

november 2017						
ma	di	wo	do	vr	za	zo
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	1	2	3
4	5	6	7	8	9	10

Structure

Title 4 Access		
CH.	article	content
1	142-155	How to become BRP/ACH
2	156-160	Balancing responsibilities (BRP/TSO)
2	161-162	Grid Losses
3; 4	163-175	Access to the Grid +subscription
5	176-184	Interconnections
6; 7; 8	185-204	BFU (+ <u>signes</u> CIPU)
9; 10	204-209	<u>Reactif & secours</u>
11; 12	210-230	Nominations(+CIPU)
13	231-266	A.S. (Rx.Mvar.BS.conj)
14	267-297	CIPU
15	297-311	<u>Conduite du réseau</u>
16	312-315	Emergency + Restoration
17	317-319	renewable



Title 4.1 Balancing		
Ch.	article	content
2	157-160	Balancing (BRP/TSO + BSP)
2	156	BRP responsibilities
2	161-162	Grid Losses
6; 7; 8	185-204	BFU (+temp <u>signes</u> CIPU)
11; 12	210-230	Nominations(+BFU+ CIPU)
1	142-155	How to become BRP/ACH
5	176-184	Interconnexions
13	231-266	balancing A.S.

Title 4.2 Access		
Ch.	article	content
New 1		ACH responsibilities & How to become ACH
3	163-173	New AP to a ACH contract
4	174-175	Subscription "Puissance <u>mise</u> à disposition"
9; 10	204-209	<u>Reactif & secours</u>

- Title 4.1 and 4.2 will be presented in WS 2
- Title 4.3 will be presented in WS 4

Title 4.3 Grid operation		
Ch.	article	content
13	231-266	Non balancing A.S. (<u>Mvar.BS.conj</u>)
14	267-297	CIPU
15	297-311	<u>Conduite du réseau</u>
17	317-319	Renewable
16	312-315	Emergency + Restoration

Documents to read in order to get prepared for workshop 2 'market aspects'

- **EB GL:** especially art. 16; 17; 18; but also art. 5(§3 & 4); 52; 53; 54; 55
- **SO GL:** especially art. 140 but also Title 5 and 6 of part IV
- **Federal Grid Code:** Articles 156 to 236

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