




Work process proposal to update Grid Codes

WG Belgian Grid  
28/05/2013 - Elia




Based on ENTSO-E information



**Agenda**

- **FTR**
- **ENTSO-E & Codes**
- **Work process proposal**

2

**FTR**



**General context**

- Necessity to adapt Grid Code - Transposition 3rd package : new electricity law, CDS, development of RES, new principles coming from EU network codes, balancing issues...
- Possibility for UG to present official recommendations for amendments to the Ministry (art. 405 grid code)
- Recommendation from UG on capacity reservation: administration has to launch the adaptation Grid Code process

**FTR**

- Analysis done by Elia on federal grid code: identification of several punctual but important needs for adaptations, on various topics
- Quick wins (UG consultation in 01/2013)
- Demand users to go further from FEBEG, FEBELIEC & GABE

3

**ENTSO-E**


• How are network codes developed ?

Development of  
Framework  
Guidelines  
(FWGL)

Request to draft a FWGL

EC

On a topic identified in art.8 (6) of Regulation EC 714/2009

Development of  
Network Code

Development of the FWGL (6 month period)

ACER

In consultation with ENTSO-E, stakeholders and Expert Group

Assessment,  
agreement &  
entry into force

Request for ENTSO-E to draft a network code

EC

According to FWGL submitted by ACER

Period in which ENTSO-E can develop a NC (12 month period)

ENTSO-E

In consultation with stakeholders according to FWGL

Assessment of NC

ACER


Recommendation of NC to EC

Comitology Process (where appropriate)

EC


In consultation with all stakeholders resulting in legally binding NC

6 Months		12 Months		3 Months		> 12 Months
Framework Guidelines	Drafting	Internal Approval	Public Consultation	Updating	Internal Approval	ACER Opinion
Scoping	Development				Approval	
						Comitology Process ....

**Overview** 

<p><b>Connection Related Codes</b></p>	<ul style="list-style-type: none"> <li>• Requirements for Generators (RfG)</li> <li>• Demand Connection Code (DCC)</li> <li>• HVDC Connection Code (HVDC)</li> <li>• <i>Connection Procedures</i> (CP)</li> </ul>
<p><b>System Operation Related Codes</b></p>	<ul style="list-style-type: none"> <li>• Operational Security Network (OS)</li> <li>• Operational Planning &amp; Scheduling (OPS)</li> <li>• Load Frequency Control &amp; Reserves (LFCR)</li> <li>• <i>Operational Procedures in an Emergency</i> (EP)</li> </ul>
<p><b>Market Related Codes</b></p>	<ul style="list-style-type: none"> <li>• Capacity Allocation &amp; Congestion Management (CACM)</li> <li>• Forward Capacity Allocation (FCA)</li> <li>• Balancing Network Code (BAL)</li> </ul>

5

**Overview** 

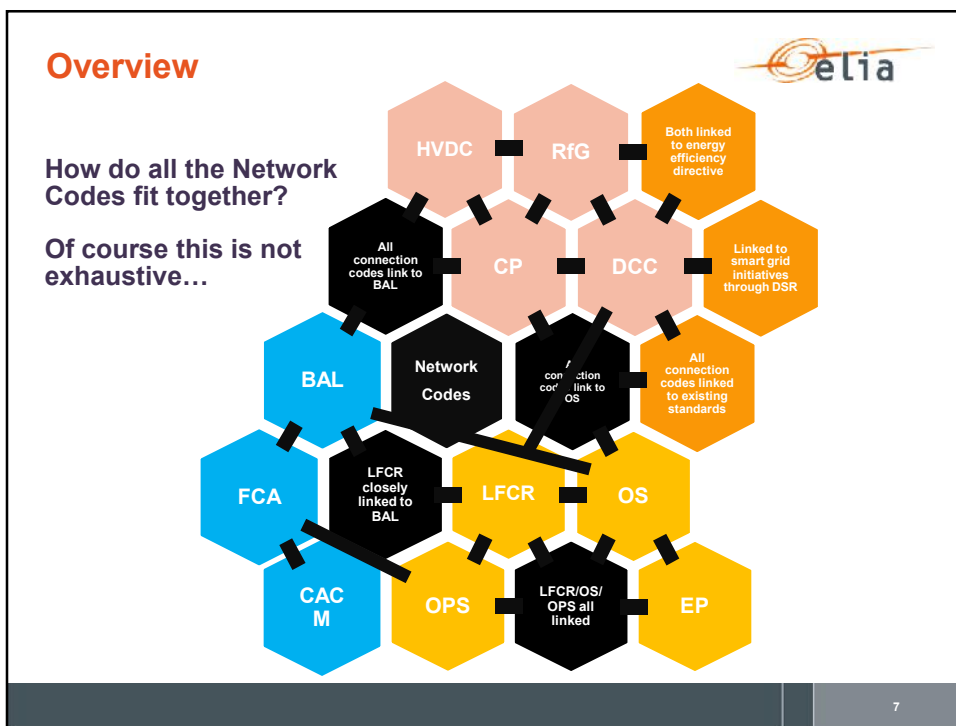
**Market Codes**

**Operational Codes**

**Connection**

**Network Codes**

6



### Network Code Requirements for Generators

**Code Overview**

**Purpose:** Provide a set of coherent requirements for generators (of all sizes) in order to meet the future power system challenges.

**Contents:**

- Requirements
- Operational Notification Procedure for Connection
- Compliance
- Derogations

**Links to other codes/ areas**

- **DCC** – Balances demand & generation requirements & uses similar processes.
- **HVDC** - Reference to part of the RfG requirements for offshore HVDC connected generation. Coherence in processes
- **OS** - Technical requirements to strengthen coordination and system security
- **BAL** – Must ensure RfG characteristics are reflected in products.

8

## Network Code on Demand Connection

### Code Overview

**Purpose:** To set requirements for new demand users and DSO connections & to outline demand side response requirements related to system frequency.

**Contents:**

- Requirements
- Operational Notification procedure
- Compliance
- Derogations

### Links to other codes/ areas

- RfG/ HVDC - Balance between demand and generation requirements and coherence in processes
- LFCR – Impact of DSR SFC on system reserve calculations
- OS - Technical requirements to strengthen coordination and enhance system security
- BAL - Demand Response will be an ever more needed building block in balancing products
- Ecodesign/ labelling Directive – Vehicle to develop DSR requirements.
- Cenelec M490 – Work ongoing to develop DSR standards

9

## Current Status

**Comitology proces has started**

- ❖ DCC and RfG are in pre-comitology (also CACM)
- ❖ Comitology will start in 10/2013

10

## Work process proposal



- Basic documents which are important
  1. FTR
  2. ENTSO-E codes
    - ❖ In the codes there are a number of “liberties” which have to be transposed

### Approach

1. Creating a task force (within BG)
  2. Identifying which codes will be examined (DCC & RfG, ...?)
  3. Identifying priority issues for the codes & FTR
  4. Elaborating a detailed working program
  5. Feedback UG BG
- A time-consuming (and difficult) job