

# Demand Connection Code Public workshop Call for Stakeholder Input

## *ENTSO-E DCC Overview & Scope Update*

1<sup>st</sup> May 2012, JESG

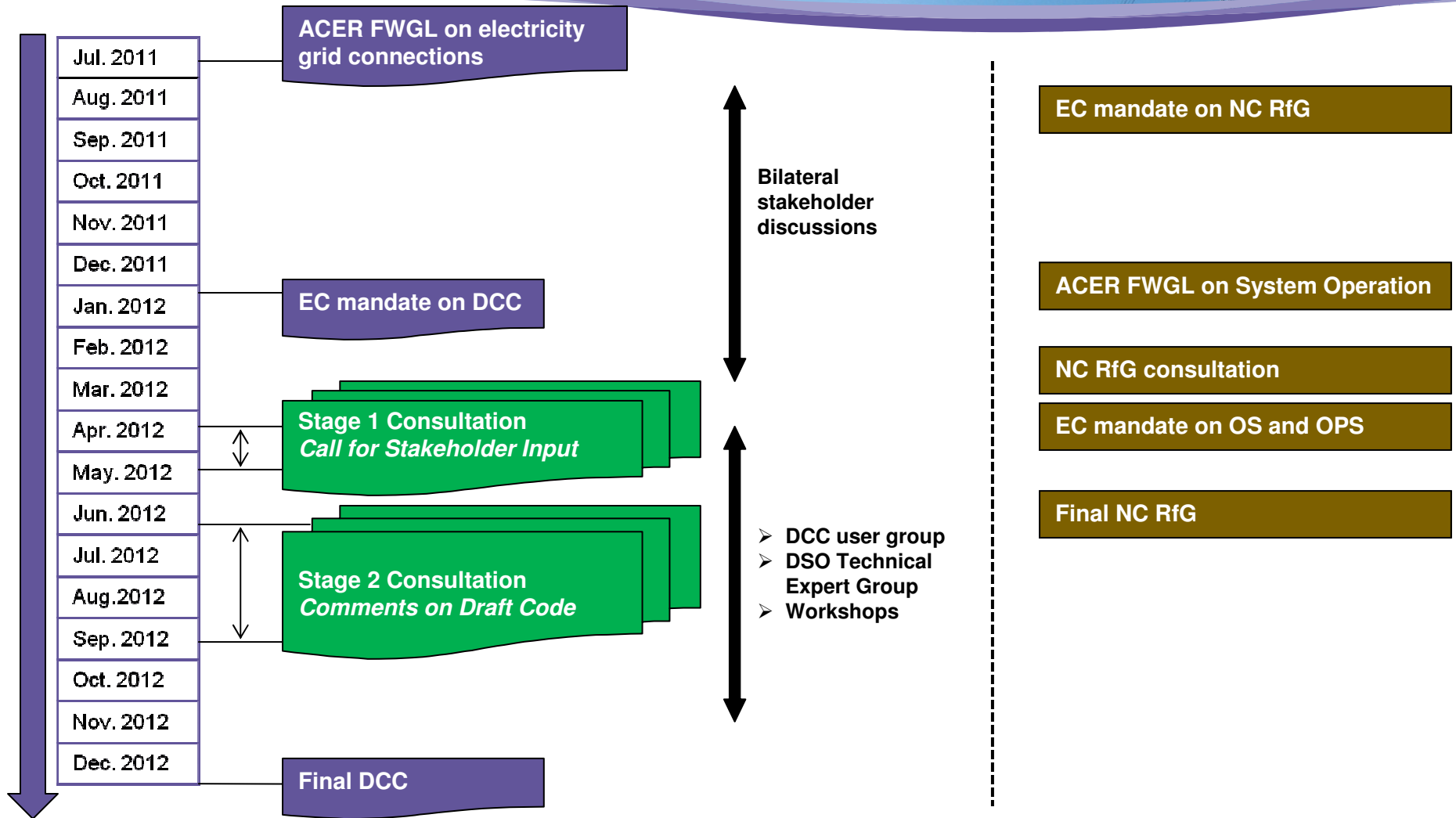
# Overview Network Codes



Deliverable	2011				2012				2013				2014			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
<b>Products/legislation relevant for effective implementation of the IEM</b>																
FG on capacity allocation and congestion management	[Orange bar with blue diamond]															
NC on capacity allocation and congestion management <sup>1</sup>	[Red and blue bars]				[Blue bar with yellow diamond]				[Yellow bar]				[Green hatched bar]			
NC on forward markets <sup>2</sup>					[Red and blue bars]				[Blue bar with yellow diamond]				[Yellow bar]			
Regional progress, setup and testing (incl. AESAG process and Regional Initiatives Work Program)	[Red hatched bar]				[Red hatched bar]				[Red hatched bar]				[Red hatched bar]			
EC comitology guideline on governance <sup>3</sup>	[Red hatched bar]				[Green hatched bar]											
FG on grid connection <sup>4</sup>	[Blue bar with blue diamond]															
NC on grid connection <sup>5</sup>	[Blue bar with blue diamond]				[Blue bar with yellow diamond]				[Yellow bar]				[Green hatched bar]			
NC on DSO and industrial load connection	[Red and blue bars]				[Blue bar with yellow diamond]				[Yellow bar]				[Green hatched bar]			
FG on system operation <sup>6</sup>	[Orange bar with blue diamond]															
NC on operational security	[Red and blue bars]				[Blue bar with yellow diamond]				[Yellow bar]				[Green hatched bar]			
NC on operational planning and scheduling	[Red and blue bars]				[Blue bar with yellow diamond]				[Yellow bar]				[Green hatched bar]			
NC on load-frequency control and reserves	[Red and blue bars]				[Red and blue bars]				[Blue bar with yellow diamond]				[Yellow bar]			
NC on operational training																
NC on requirements and operational procedures in emergency	[Red and blue bars]															
FG on balancing	[Red and blue bars]				[Orange bar with blue diamond]											
NC on balancing <sup>7</sup>	[Red and blue bars]				[Red and blue bars]				[Blue bar with yellow diamond]				[Yellow bar]			
EC comitology guideline on transparency					[Green hatched bar]											



# Demand Connection Code – Timeline & context



# Demand Connection Code – Stakeholder interactions

## **DSO Technical Expert Group**

- Nominated by CEDEC, EDSO-SG, Eurelectric DSO and Geode
- Sequence of 7 meetings since July 2011
- A further meeting held post workshop

## **IFIEC**

- First meeting on DCC principles
- Second meeting on initial draft code

## **CENELEC**

- Links with standardization and ongoing work under Mandate 490
- Two meetings to date

## **CECED**

- Initial discussion on demand response by domestic appliances

# Demand Connection Code – Stakeholder interactions

**Principle / topics published as DCC preliminary scope arising from frame work guideline.**

**Stakeholders discussion continue as of this stage by means of a DCC user group.**

# Demand Connection Code – Stakeholder interactions

## Framework Guidelines

Frequency and voltage parameters	Section 2.1
Requirements for reactive power	Section 2.1
Load-frequency control related issues	Section 2.1
Short-circuit current	Section 2.1
Requirements for protection devices	Section 2.1
Balancing capabilities and provision of ancillary services	Section 2.1, 2.1.1, and 2.1.2
Equipment requirements at connection point	Section 2.1.1 and 2.1.2
Disconnection/Islanding/Reconnection	Section 2.1.3
Instructions provide by TSO/DSO to user	Section 2.1.2 and 3.2
Information/Data exchange	Section 3
Compliance	Section 2.4
Derogation	Section 2.2
Enforcement period	Section 2.3

# Demand Connection Code – Stakeholder interactions

- **Published on 5 April.**
- **The big challenge identified & associated questions.**
- **Five topics identified which are new to many grid codes:**
  - Demand Side Response for Reserves
  - Demand Side Response for System Frequency Control
  - Reactive Power Exchange capability
  - Voltage & Frequency withstand capabilities



# Demand Connection Code – Stakeholder interactions

**ENTSO-E proposes options for each, underpinned by illustrating case studies, including CBAs. Viewpoints and supporting data on these are requested.**

- Alternative for five topics identified & questions raised.
- Feedbacks are to be provided by 9 May (see website for details). Responses will be published.
- The responses will be used to draft/re-draft the DCC & supporting justification documents

