

Demand Connection Code Public workshop Call for Stakeholder Input

ENTSO-E DCC Overview & Scope Update

26th April 2012 – London ENA

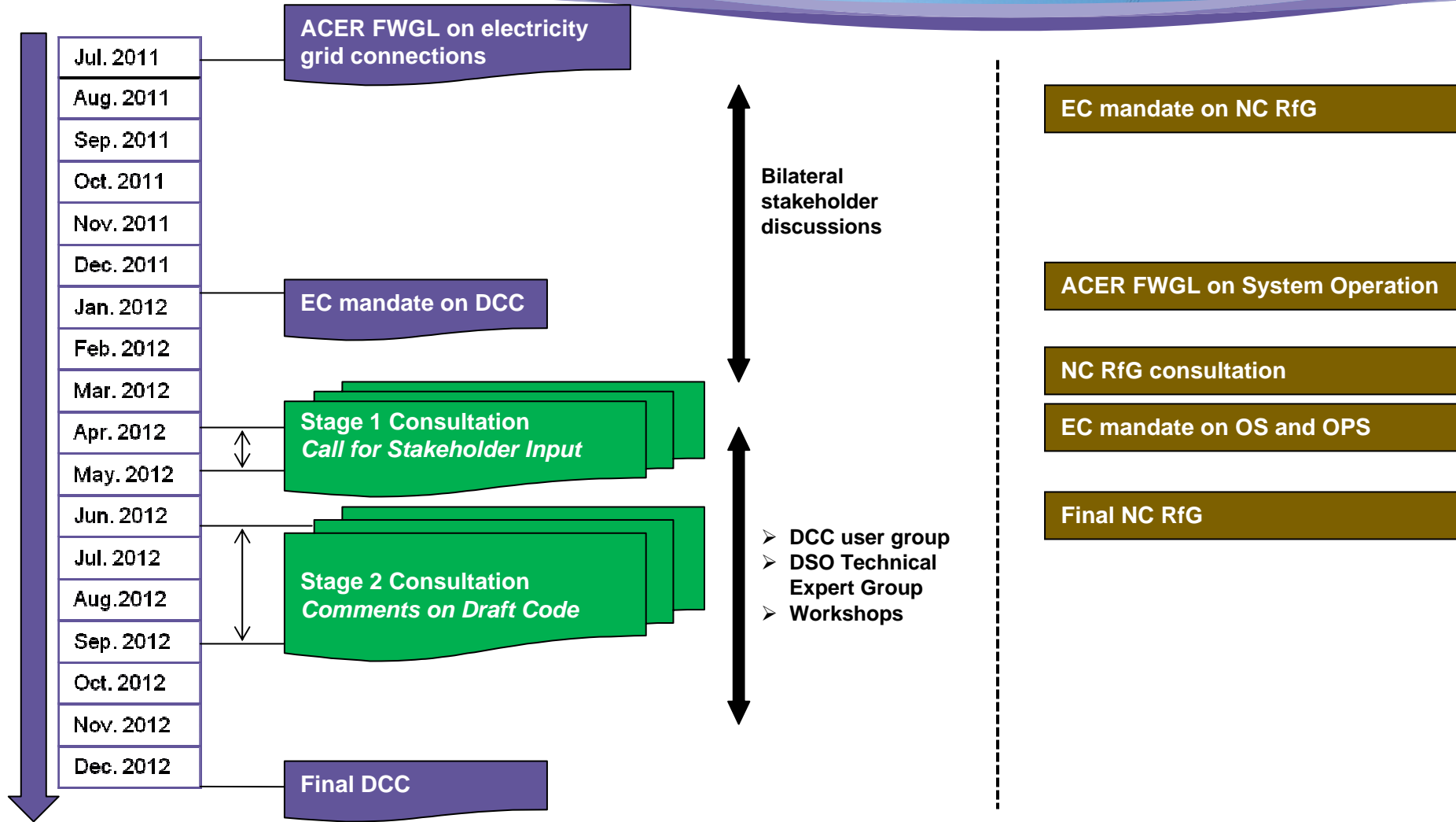
Overview Network Codes



Deliverable	2011				2012				2013				2014			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Products/legislation relevant for effective implementation of the IEM																
FG on capacity allocation and congestion management	[Orange bar, Q1-Q2 2011]															
NC on capacity allocation and congestion management ¹	[Pink bar, Q1-Q2 2011]				[Dark blue bar, Q1-Q4 2012]				[Green bar, Q1-Q4 2013]							
NC on forward markets ²					[Pink bar, Q1-Q4 2012]				[Dark blue bar, Q1-Q4 2013]				[Green bar, Q1-Q4 2014]			
Regional progress, setup and testing (incl. AESAG process and Regional Initiatives Work Program)	[Pink bar, Q1-Q4 2011]				[Pink bar, Q1-Q4 2012]				[Pink bar, Q1-Q4 2013]				[Pink bar, Q1-Q4 2014]			
EC comitology guideline on governance ³	[Pink bar, Q1-Q4 2011]				[Green bar, Q1-Q2 2012]											
FG on grid connection ⁴	[Orange bar, Q1-Q2 2011]															
NC on grid connection ⁵	[Dark blue bar, Q1-Q4 2011]				[Dark blue bar, Q1-Q4 2012]				[Green bar, Q1-Q4 2013]							
NC on DSO and industrial load connection	[Pink bar, Q1-Q4 2011]				[Dark blue bar, Q1-Q4 2012]				[Green bar, Q1-Q4 2013]							
FG on system operation ⁶	[Orange bar, Q1-Q2 2011]															
NC on operational security	[Dark blue bar, Q1-Q4 2011]				[Dark blue bar, Q1-Q4 2012]				[Green bar, Q1-Q4 2013]							
NC on operational planning and scheduling	[Dark blue bar, Q1-Q4 2011]				[Dark blue bar, Q1-Q4 2012]				[Green bar, Q1-Q4 2013]							
NC on load-frequency control and reserves	[Pink bar, Q1-Q4 2011]				[Dark blue bar, Q1-Q4 2012]				[Green bar, Q1-Q4 2013]							
NC on operational training																
NC on requirements and operational procedures in emergency																
FG on balancing	[Pink bar, Q1-Q4 2011]				[Orange bar, Q1-Q2 2012]											
NC on balancing ⁷	[Pink bar, Q1-Q4 2011]				[Dark blue bar, Q1-Q4 2012]				[Green bar, Q1-Q4 2013]							
EC comitology guideline on transparency					[Green bar, Q1-Q2 2012]											



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

