

ENTSO-E's Demand Connection Code

in the context of ACER's framework guidelines
and the objectives of the 3rd package

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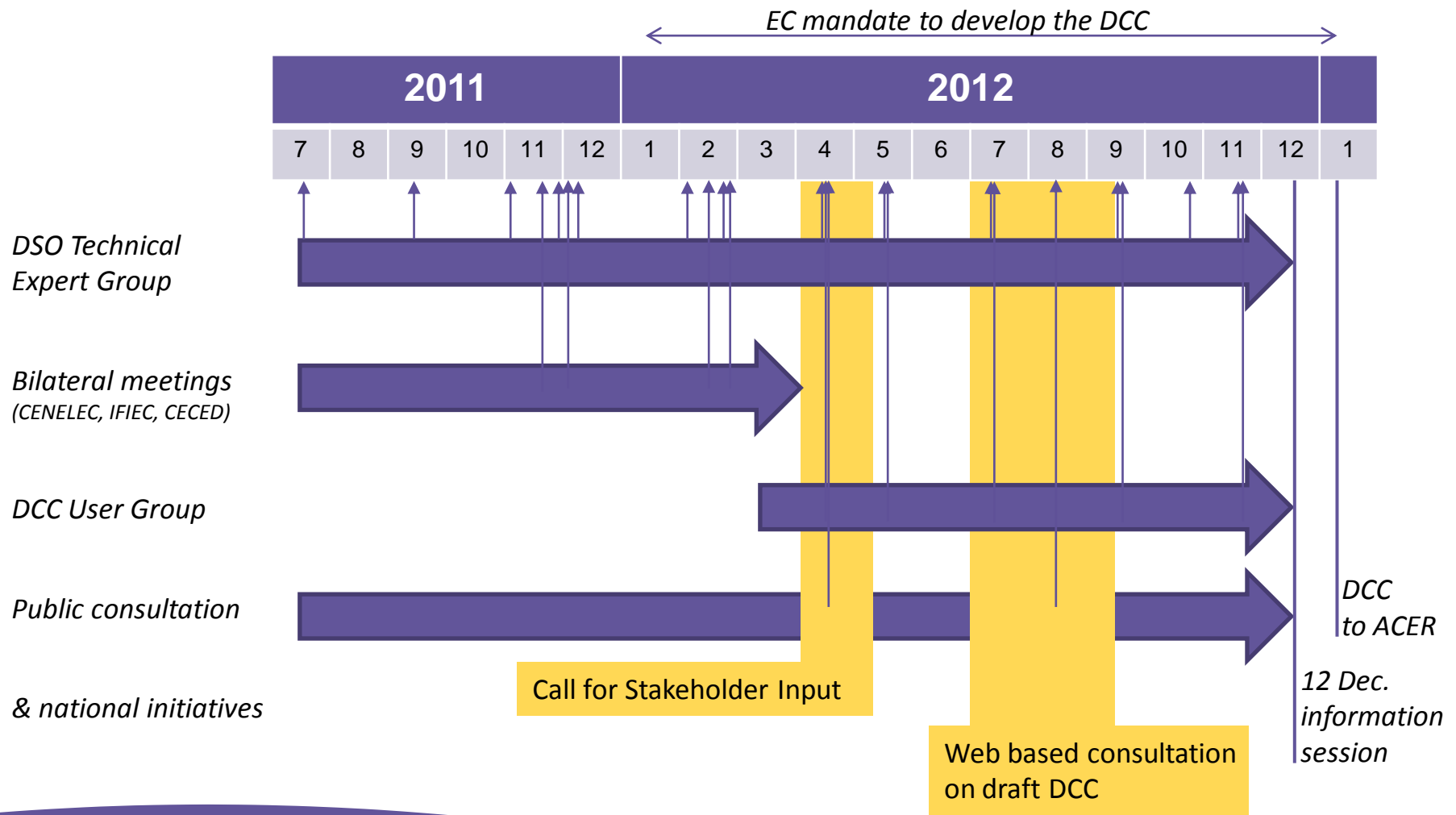


DCC development & integration of industry views

DCC requirements in the context of EC legislation and ACER's framework guideline

DCC requirements to ensure performance of equipment and cost-effective delivery of crucial system services.

DCC development & integration of industry views



DCC development & integration of industry views

DSOs

Principles

Scope

Initial draft text

Parallel track
to User Group

- Experts nominated by CEDEC, EDSO for Smartgrids, Eurelectric DSO, Geode
- Involved in an early phase of the NC development
- Crucial role in DCC (and other codes) as DSOs need to implement requirements and enforce compliance of NC requirements

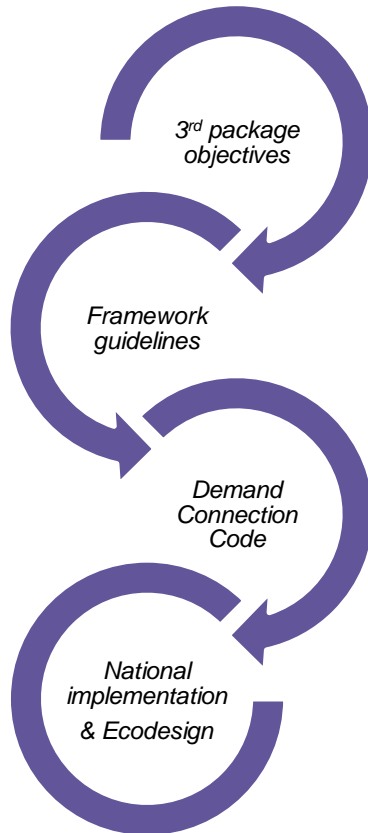
DCC User Group

Stage I
consultation

Stage II
consultation

Improvements
post-
consultation

- European-wide associations with a relevant stake in the scope of the DCC
- Main forum that was continuously involved throughout the consultation process
- 14 organizations that expressed an interest to follow-up the process



DCC general requirements

- covers all technical provisions mentioned in the framework guidelines.
- complimentary with other NCs, notably NC RfG, in requirements and procedures

Criteria for significant user ('transmission connected')

- aligned with national regulations and national processes
- aiming at coherency with how the system is developed throughout Europe

Criteria for significant user ('providing DSR')

- aligned with system needs on generation (domestic PV & domestic DSR)
- aiming at a proportional and practical approach (type testing, approach via aggregation)

Relationship with present practices

- extensively described in supporting documents
- feedback pursued in Call for Stakeholder Input - supported by CBA case studies
- further implementation is no free ticket but safeguarded by other legislation: Article 9(3) and Directive 2009/125/EC

DCC enabling European energy goals and industry ambitions



Smart Grid roadmap

Local Demand Side Response measures

3rd Energy Package objectives

Ecodesign & product standardization

Energy Efficiency Directive

Portfolio of Network Codes

Performance: Adequate performance of network equipment and reactive power capabilities are essential in a system with more embedded & large transit RES flows

Co-ordination: Dynamic demand capabilities complement controllability of dynamic generation and grid reinforcements

Market Participation: The process to make new devices DSR-ready removes market barriers and aims at facilitating DSR delivery by small-scale demand

Cost Efficiency: Mandatory DSR delivery by temperature controlled devices is proven to be cost-effective for early adoption, without locking out other existing/future models

Direction: Further product standardisation based on DCC functional requirements is needed

Delivery: Adequate connection requirements ensure that DSR can be delivered when the system needs it.

- The DCC provides needed tools for network operators to **facilitate continued connection of RES and maintain security of supply.**
- ENTSO-E wishes to thank the **extensive stakeholder feedback** received through its series consultation stages, supporting improvements in the code and preparing it for adoption as European Regulation.
- ACERs current task to assess that the Network Code complies with the **principles and objectives of the framework guidelines**, is key for the succesful further implementation of the code.



Thank you for your attention

Further background information on the development of the Demand Connection Code:

<https://www.entsoe.eu/major-projects/network-code-development/demand-connection/>

Further information on the portfolio of Network Codes:

<https://www.entsoe.eu/major-projects/network-code-development/>