

## Demand Connection Code - Update



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JESG – 6 December 2012

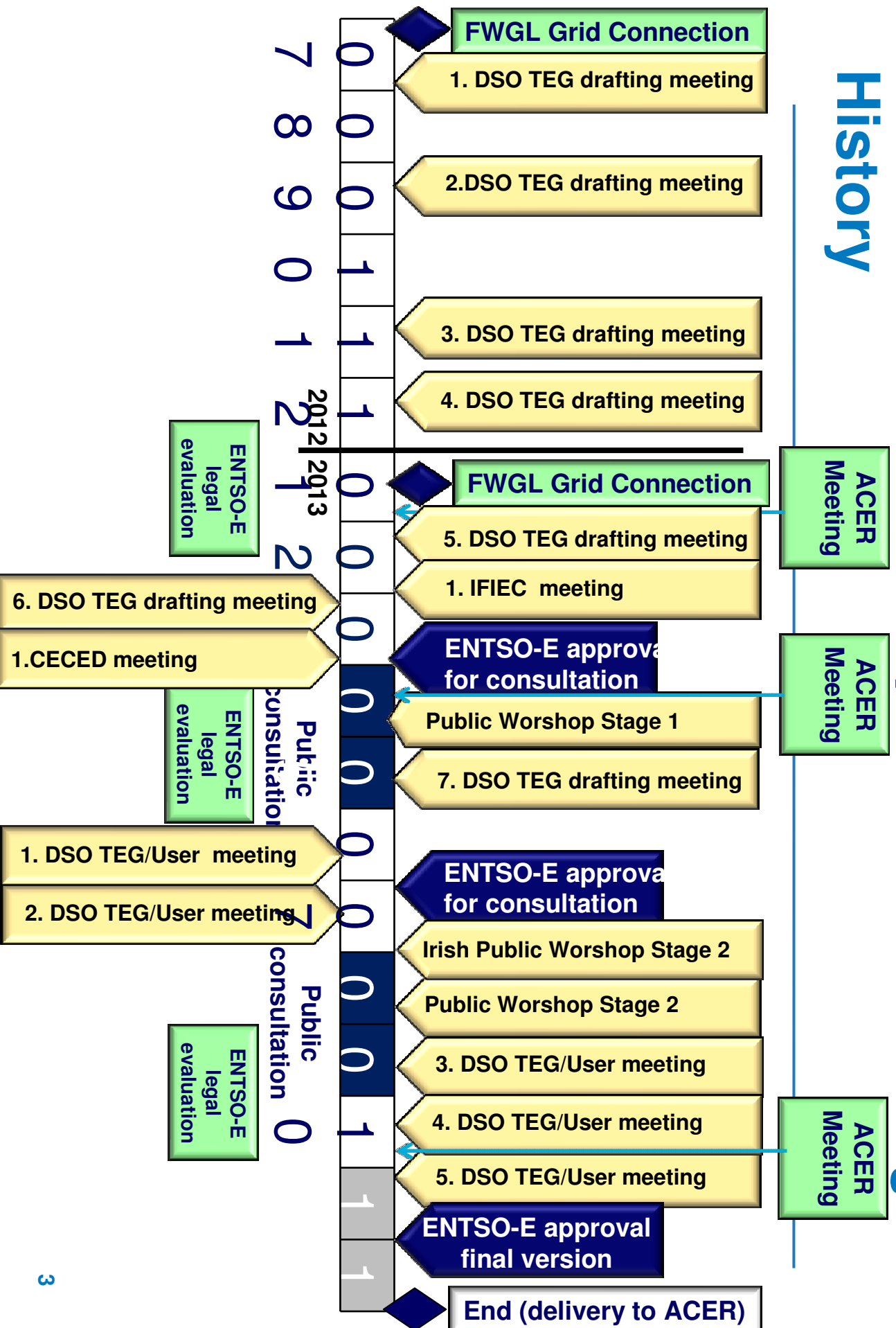
## Agenda

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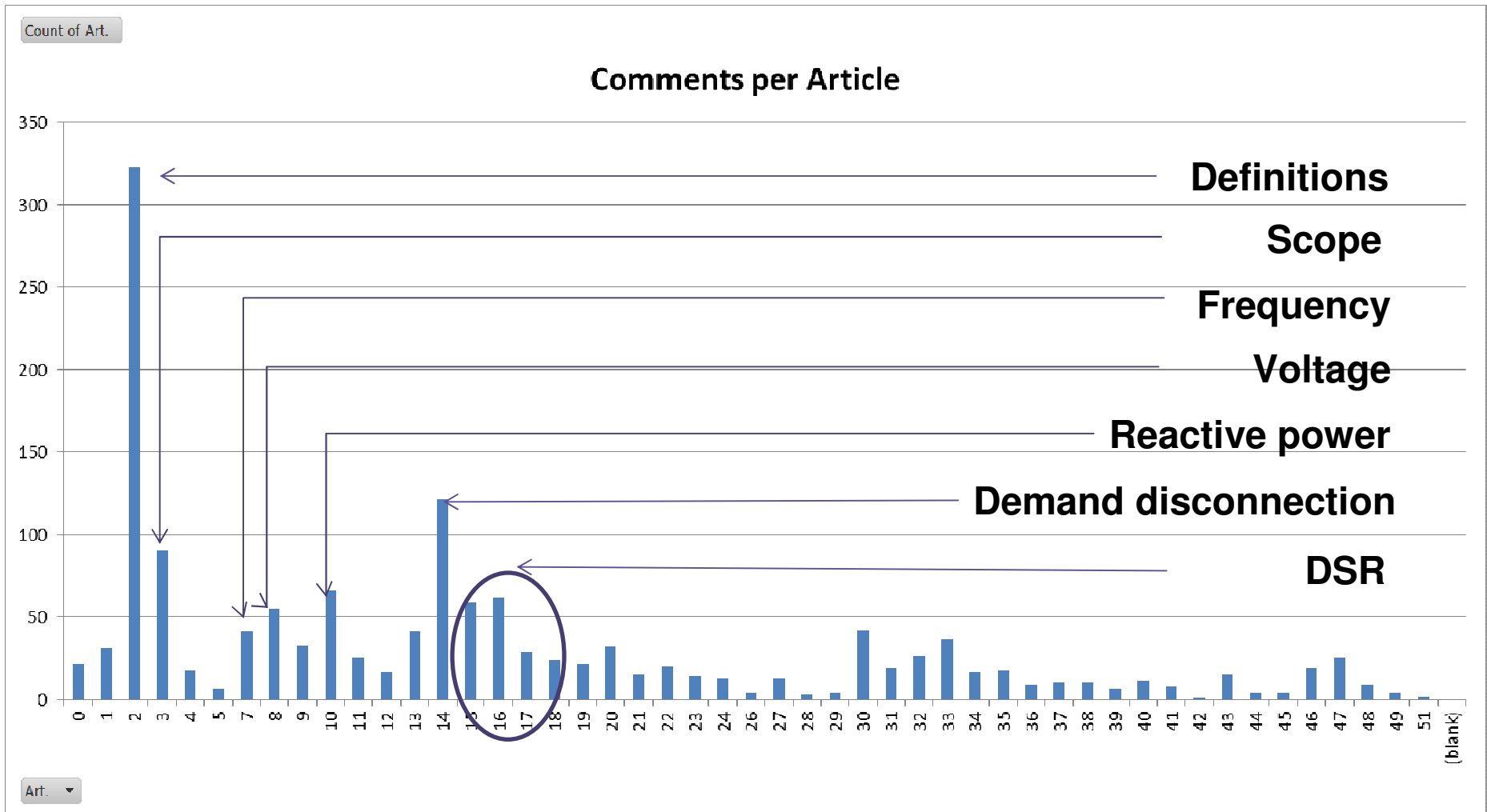
1. DCC History
2. Changes to the Code from consultation document
  - a) Consultation Comments
  - b) USER Group
  - c) EC response and interaction
3. Summary of Final Code modifications
4. DCC Overview
5. Updates & key dates

# Network Code Development – nationalgrid

## History



# High level overview of 1497 comments



# Key Observations

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First indication: +/- 1150 unique comments

People working together

- Per country/Per sector (DSOs)

Themes

- General areas – scope and definitions
  - Everyone defines a term differently
  - Scope needs more work to bring clarity
- Notably the 5 call for stakeholder input requirement topics
  - Voltage
  - Frequency
  - DSR APC/RPC/TCM
  - DSR SFC
  - Reactive support
- Demand disconnection requirement also
  - Clarity
  - Co-operation
  - Process
  - Operational aspects not capabilities

## DCC – User Group view

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### Past year

- Five meetings taken place with user group in advance of stage 1 consultation and throughout consultation process

### Main comments stated in formal consultation:

- **Impact of DSR requirements.** Comments vary from modification to complete removal
- **Mixed use sites** Inclusion of clear applicability of requirements for sites where generation and demand co-exist.
- **Industry requirements** should recognise technical and commercial implications.

### Comments last formal meeting on 13<sup>th</sup> Nov. 2012

- **Limited issues** from Users other the DSO TEG
- **SEDC issues** Comments raised in user group and subsequent meeting mainly on need for more specific role of aggregators in code and bureaucracy of Installation document , plus general opposing vision on DSR SFC

## DCC – EC view

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### Network Codes

- Appliance requirements were not expected, so easily dismissed as 'out of scope'.
- In any case, comitology discussions on DSR would be difficult
- The EC Impact Assessment would cover more aspects than ENTSO-E's CBA (e.g. privacy, customer comfort)

### Smart Grid (Mandate 490)

- Two year extension of the mandate – so far no SG standards have been delivered
- Early meeting between DT DCC and M490 agreed on the relation of high level functional NC requirements and further technology specific standards
- ENTSO-E / Cenelec MoU should enforce working relations
- At this stage, a final DCC could be a driving force for further M490 work

### Energy Efficiency Directive

- As the EED stresses national choice and socio-economic optimization, it is believed to be in line with the DCC principles
- Enters into force late 2012

### Eco Design

- Considered to be the only viable legislative route for appliance requirements, driven by DG Enterprise
- Strong focus on free movement of goods without national decisions
- Agnostic about the DSR benefit – open to discuss

## DCC – EC interactions

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- Network Code should not impede smart grid vision to be delivered in longer term
- Appropriate ‘vehicle’ for requirements should be used for example Ecodesign
- Mandating is possible but must be robustly justified
- Autonomous control not challenged as being cost efficient or optimum when considered in isolation - may be possible short term solution to be replaced in longer term
- Agreed ENTSO-E to provide a paper on the ‘options’ for DSR SFC delivery - full mandatory to full market driven solution, with pros and cons and a preferred solution



# Summary of Draft Code modifications

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- **Main changes in order of appearance in code:**
  - Reference to DSOs and not Distribution Asset Owner [DSO TEG]
  - Scope restructured [All]
  - Frequency requirements moved back to distribution networks [EC/ACER]
    - Distribution Network important to make use of embedded DSR and Generation
  - Significance test through Ecodesign directive [EC/ACER/TSO]
  - DSR-SFC I/O interface future proofed for smart grid initiatives [EC/ACER/TSO]
  - Installation document at time of DSR service – reduced bureaucracy [User/DSO TEG]
  - DSO request for dynamic reactive power control [DSO TEG]
  - TSO/DSO Joint involvement in assessing financial or technical benefit alternatives [DSO TEG]
  - FAQs changed to put more focus on the DSO TEG protection issue and align with others changes [DSO TEG]

# DCC Overview

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## ***DCC package:***

- Final Demand Connection Code
- Evaluation of Comments
- Frequently Asked Questions
- Justification Outlines
- NC Grand Design paper (covering all NCs)
- **Baseline of existing requirements**
  
- Legal Assessment – Some suggested changes, no red line issues

***Changes still to be made to align with RfG – Cost recovery, NRA involvement in decisions***

## Updates & Key Future Dates for DCC

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- SDC Approved DCC
- Published DCC updated documents on web
- ENSTSO-E Assembly Approval
  - 7 – 21 December 2012
- DCC Information session
  - 12 December, Brussels