

Network Code for Requirements for Grid Connection applicable to all Generators (RfG)

JESG Update – 6 December 2012

Rob Wilson

ENC Development

Network Code	Content
Requirements for Generators	Sets functional requirements which new generators connecting to the network (both distribution and transmission) will need to meet, as well as responsibilities on TSOs and DSOs .
Demand Connection	Sets functional requirements for new demand users and distribution network connections to the transmission system, basic Demand Side Response capabilities, as well as responsibilities on TSOs and DSOs.
HVDC	Sets functional requirements for HVDC connections and offshore DC connected generation.
Operational Security	Sets common rules for ensuring the operational security of the pan European power system.
Operational Planning & Scheduling	Explains how TSOs will work with generators to plan the transmission system in everything from the year ahead to real time.
Load Frequency Control & Reserves	Provides for the coordination and technical specification of load frequency control processes and specifies the levels of reserves (back-up) which TSOs need to hold and specifies where they need to be held.
Capacity Allocation & Congestion Management	Creates the rules for operating pan-European Day Ahead and Intraday markets, explains how capacity is calculated and explains how bidding zones will be defined.
Balancing	Sets out the rules to allow TSOs to balance the system close to real time and to allow parties to participate in those markets.
Forward Capacity Allocation	Sets out rules for buying capacity in timescales before Day Ahead and for hedging risks.

From ENTSO-E website:

- ‘The Network Code on Requirements for Generators is seen as one of the main drivers for creating harmonized solutions and products necessary for an efficient pan-European (and global) market in generator technology. The purpose of this network code is to bring forward a set of coherent requirements in order to meet these challenges of the future.’

Issues & Implementation

- As the first Code, definitions from RFG are expected to be used in other Network Codes.
- Significant complications for application within GB, especially regarding new categorisation of users.
- In discussion with DECC/Ofgem to define implementation approach. Initial options for implementation of RfG provisions being drafted by NG.

Latest Progress

- Final code submitted to ACER 13 July 2012.
- GB stakeholder workshop held 2&3 August 2012.
- ACER workshop held 3 September 2012.
- ACER review of code published 13 October 2012 (opinion of how code meets Framework Guidelines):
 - Generally positive opinion with 4 areas identified for improvement.
 - Two meetings held (22 Nov) with Pan-European Stakeholders regarding the issues raised in ACER's opinion.
 - User group meeting with all pan European organisations registered re RfG re the 4 issues. ACER and EC present.
 - Meeting with DSO EG to examine practicality of ACER's opinion related to transfer of FRT requirement for Type B generators to DSOs at T-D interface.
 - Minutes from these two meetings should be published on ENTSO-Es website soon. Awaiting sign-off of the drafts.
- Delayed comitology likely to commence (once ENTSO-E have progressed issues and resubmitted code) in April 2013.

ACER Opinion 13 Oct 2012

ACER issues with Network Code:

- Significance test for small scale units
- Insufficient justification for:
 - Deviation from existing practice with regards to Fault Ride Through requirements;
 - Exemption of CHP units (proposal that the exemption should be extended to cover heat as well as steam);
- Amendments required to national scrutiny for those elements to be determined on a national level (to ensure appropriate oversight and clarity of requirements);
- Recovery of costs incurred by TSOs and DSOs (not required in the Network Code and should be deleted).