

Electricity European Network Codes & Guidelines Summary

03 November 2015

Grid Connection Codes

	Requirements for Generators (RfG)	Demand Connection Code (DCC)	High-voltage Direct Current (HVDC)
What does the Code cover	The regulation will set, or lays down a process for setting, the requirements that new generators must meet to connect to the network. It also sets some requirements for existing generators in very limited cases.	The regulation will define requirements for new demand users and distribution network connections to the network.	The regulation will provide requirements for HVDC connections and offshore DC connected generation.
Who may be impact by it	All new generators from 800W and above connected at Transmission and Distribution voltages. A generator is considered new if it connects after 2 years after entry in to force of this regulation, unless it has let contracts for major plant before that 2 year deadline. By exception, the European Network Code can be applied retrospectively to existing generators, subject to successful cost benefit analysis and Regulatory approval.	All new 'significant demand' at Transmission and Distribution voltages. Demand is considered new if it connects after 2 years after entry in to force of this regulation, unless it let contract for major plant before that 2 year deadline. Significant demand is that providing a Demand Side Response Service, or connected to the Transmission Network. The European Network Code can be applied retrospectively to existing equipment, subject to successful cost benefit analysis and Regulatory approval.	Operators of new HVDC links, and new offshore Power Park Modules connected to the onshore Network via HVDC. The European Network Code can be applied retrospectively to existing equipment, subject to successful cost benefit analysis and Regulatory approval.
Potential GB Framework Impact¹	Changes to the Grid Code and Distribution Code were confirmed by code mapping and an implementation plan has been drafted.	Code changes will be detailed through code mapping when this is completed.	Code changes will be detailed through code mapping when this is completed.
Latest Text	Member States Adopted Text. See JESG website	September 2015 Commission draft. See JESG website	August 2015 Commission draft. See JESG website
Network Code or Guideline	Network Code	Network Code	Network Code
Phase of development	Awaiting European Parliament approval and publication in Official Journal of the European Union (OJEU)	Awaiting European Parliament approval and publication in Official Journal of the European Union (OJEU)	Awaiting European Parliament approval and publication in Official Journal of the European Union (OJEU)
Status Update	RfG was adopted by Member States in Comitology on 26 June 2015 and now sits with the European Parliament and Council for approval. GB Implementation is being considered by GCRP/DCRP RfG Joint Workgroup GC0048 .	DCC was adopted by Member States in Comitology on 16 October 2015 and now sits with the European Parliament and Council for approval. GB implementation is being considered by GCRP/DCRP DCC Joint Workgroup GC0091 . First Workgroup meeting is scheduled for 20 November 2015.	HVDC was adopted by Member States in Comitology on 11 September 2015 and now sits with the European Parliament and Council for approval. GB implementation is being considered by GCRP HVDC Workgroup GC0090 . Second Workgroup meeting scheduled for 10 & 11 November 2015.
Next Milestone	Subject to approval by the European Parliament and Council Q4 2015	Subject to approval by the European Parliament and Council Q2 2016	Subject to approval by the European Parliament and Council Q2 2016
GB Stakeholder Issues	DECC and Ofgem Stakeholder workshop held 16 June 2015 collating stakeholder issues in relation the latest RfG draft text. These can be viewed on the JESG Website	DECC and Ofgem Stakeholder workshop held 12 October 2015 collating stakeholder issues in relation the latest DCC draft text ahead of the Cross Border Committee meeting in October. Stakeholder issues from previous workshops can be viewed on the JESG Website	Latest version of the code released to the member states for comments on the 27 August 2015. Stakeholder issues can be viewed on the JESG Website
Contacts	DECC	Steve Davies steve.davies@decc.gsi.gov.uk 0300 068 6088	Steve Davies steve.davies@decc.gsi.gov.uk 0300 068 6088
	Ofgem	Stephen Perry Stephen.Perry@ofgem.gov.uk	David Freed david.freed@ofgem.gov.uk 0207 901 1827
	NGET	Robert Wilson Robert.Wilson2@nationalgrid.com 01926 653398	Richard Woodward Richard.Woodward@nationalgrid.com 01926 656596
Next Stakeholder Engagement Opportunity	Stakeholders can engage in GB implementation through GCRP/DCRP RfG Joint Workgroup GC0048	Stakeholders can engage in GB implementation through GCRP/DCRP DCC Joint Workgroup GC0091	Stakeholders can engage in GB implementation through GCRP HVDC Workgroup GC0090

¹ To implement every Regulation there will need to be an initial exercise to determine which elements apply directly, which need additional action to put in place and, where this is the case, which parts of the GB framework will need to change to achieve this. Implementation will see changes being made to interconnector access rules, charging methodologies, industry codes and licences and is likely to require legislation in a limited number of cases.

Electricity European Network Codes & Guidelines Summary

03 November 2015

Market Codes

		Capacity Allocation and Congestion Management (CACM)	Forward Capacity Allocation (FCA)	Electricity Balancing (EB)
What does the Code cover		The regulation will lay down the rules for operating pan-European day ahead and intraday markets, and will set out the processes for determining how capacity is calculated, congestion is managed and the criteria and process for reviewing bidding zones.	The regulation will set the rules for calculating and buying capacity in forward markets (before day ahead). It also sets rules for hedging price risk between bidding zones in these markets.	The regulation will define the roles and responsibilities of TSOs and market participants in cross-border balancing. It will provide the rules for procurement and exchange of balancing energy, reservation of capacity for balancing purposes and greater harmonisation of settlement arrangements
Who may be impacted by it		Anyone trading or wishing to trade Interconnector capacity and cross-border energy in the day ahead or intra-day timeframes. TSOs (including Interconnectors) and power exchanges. Generators and demand to provide information on which capacity allocation decisions are made on a regional basis.	Anyone trading Interconnector capacity in the forwards markets. TSOs (Interconnectors)	TSOs, DSOs, Elexon, and providers of balancing services.
Potential GB Framework Impact ¹		An initial implementation mapping workshop was held 19 February 2014. Stakeholders will be asked to provide comments on the output of this exercise.	TBC	TBC
Latest Text		Member State Agreed Text. See JESG website	September 2015 Commission draft. See JESG website . ACER Recommendation: [link]	ENTSO-E final text. See JESG website ACER Recommendation (24 July 2015): [link]
Network Code or Guideline		Guideline	Guideline	Drafted as a Network Code
Phase of development		On 24 July 2015 CACM was published in Official Journal of the European Union (OJEU) following the European Council and Parliament Approval.	Awaiting European Parliament approval and publication in Official Journal of the European Union (OJEU)	Subject to the outcome of the proposed changes put forward within ACERs Recommendation, the network code would enter the Comitology phase.
Status Update		CACM entered into force (became law) on 21 August 2015. GB Implementation is considered under JESG Subgroup for CACM & FCA implementation. http://www2.nationalgrid.com/UK/Industry-information/Electricity-codes/European-network-code/JESG-Subgroup---other-Stakeholder-groups/	FCA was adopted by Member States in Comitology on 30 October 2015 and now sits with the European Parliament and Council for approval. GB Implementation is considered under JESG Subgroup for CACM & FCA implementation. http://www2.nationalgrid.com/UK/Industry-information/Electricity-codes/European-network-code/JESG-Subgroup---other-Stakeholder-groups/	As above.
Next Milestone		As above.	Subject to approval by the European Parliament and Council Q2 2016	Comitology Preparations
GB Stakeholder Issues		Captured in August 2014: <ul style="list-style-type: none">Governance – decision-making, consultation, approval and review processes around methodologies, amendments (across all market codes).Clarity of drafting, roles and responsibilities, etc. (across all market codes).NEMO designation and competition.Bidding Zone reviews.Capacity calculation methodology.Cost-sharing arrangements (across all market codes).	Captured in October 2013 <ul style="list-style-type: none">Firmness regime.Operation of Physical Transmission Rights (PTRs) and Financial Transmission Rights.Implementation timescales.Harmonised Allocation Rules (in development as a pilot project).Single Allocation Platform (in development as a pilot project).Nomination rulesSplitting of capacity between different timeframes	Captured in January 2015 <ul style="list-style-type: none">Change to settlement periodNature of GB implementationRole of TSO as facilitator in TSO-TSO model Captured in January 2014 <ul style="list-style-type: none">Delegation of balancing functions.Fit with the BSC panel function.Cost neutrality.Impact within GB and particularly on DSOs.Arrangement of CoBAs – particularly with regard to ICs.Relationship with DSR.Emergency arrangements.Development of standard products and other changes to GB practice.
Contacts	DECC	Elena Mylona (Code Negotiation) elena.mylona@decc.gsi.gov.uk 0300 068 5065 Phil Hicken (Code Implementation) Phil.hicken@decc.gsi.gov.uk 0300 068 6059	Elena Mylona (Code Negotiation) elena.mylona@decc.gsi.gov.uk 0300 068 5065 Phil Hicken (Code Implementation) Phil.hicken@decc.gsi.gov.uk 0300 068 6059	Elena Mylona (Code Negotiation) elena.mylona@decc.gsi.gov.uk 0300 068 5065 Phil Hicken (Code Implementation) Phil.hicken@decc.gsi.gov.uk 0300 068 6059
	Ofgem	Natasha Smith Natasha.Z.Smith@ofgem.gov.uk 0203 263 9670	Jessica Housden Jessica.Housden@ofgem.gov.uk 0207 901 7254	Grendon Thompson Grendon.Thompson@ofgem.gov.uk 0207 901 1899
	NGET	Rob Selbie Robert.Selbie@nationalgrid.com 0118 936 3508	Rob Selbie Robert.Selbie@nationalgrid.com 0118 936 3508	Chris Fox Christopher.Fox@nationalgrid.com 0118 936 3552
	Next Stakeholder Engagement Opportunity	Stakeholders will be engaged via JESG at appropriate stages during the Implementation phase	GB Stakeholders' views sought through DECC/Ofgem stakeholder workshop on 12 October	GB Balancing Stakeholder Focus Group (BSFG) is now set up and meets quarterly. Please email europencodes.electricity@nationalgrid.com should wish to be added to the distribution list for the BSFG.

Electricity European Network Codes & Guidelines Summary

03 November 2015

System Operation Codes

	Operational Security (OS)	Operational Planning and Scheduling (OPS)	Load Frequency Control & Reserves (LFCR)	Emergency & Restoration (ER)
What does the Code cover	The purpose of the regulation will be to retain (or return to) a normal grid state. It will set common rules for ensuring the operational security of the pan-European power system.	The regulation will focus on the planning phase ahead of real time. It will set requirements for assessing the adequacy and operational security of the interconnected power system and for planning outages required by TSO's and grid users when they have cross borders impacts on power flows.	The regulation will force on frequency quality criteria. It will provides for the coordination and technical specification of load frequency control processes and specifies the levels of reserves (backup) which TSOs need to hold and specifies where they need to be held.	The regulation will deal with the procedures and remedial actions to be applied in the Emergency, Blackout and Restoration states.
Who may be impact by it	All generators > 1MW Transmission Connected Demand Facilitates Significant Demand Facilities, Closed Distribution Networks and Aggregators if they provide Demand Side Response Services to the TSO according got the DCC Redispatching Aggregators and Providers of Active Power Reserves according to LFCR TSOs	A subset of those impacted by OS, who are determined as 'relevant' for the purposes of the European Network Code see Article 24. The methodology to determine relevance will be determined after the code enters in to force, and be subject to NRA approval. TSOs.	TSOs, Reserve Connecting DSOs and Reserve Providers.	All generators > 1MW Transmission Connected Demand Facilitates Significant Demand Facilities, Closed Distribution Networks and Aggregators if they provide Demand Side Response Services to the TSO according got the DCC Redispatching Aggregators and Providers of Active Power Reserves according to LFCR HVDC Systems and DC-connected Power Park Modules Type A (800W-1MW) Power Generating Modules if they qualify as a Defence Provider and/or Restoration Provider
Potential GB Framework Impact	Potential impact on the Grid Code and SQSS			Potential impact on the Grid Code
Latest Text	ENTSO-E final text. See JESG website ACER Opinion: [link] ACER Recommendation: [link]	ENTSO-E final text. See JESG website ACER Opinion: [link] ACER Recommendation: [link]	ENTSO-E final text. See JESG website ACER Opinion: [link] ACER Recommendation: [link]	ENTSO-E draft text released after public consultation (April 2015). See JESG website ACER Opinion: [link] ACER Recommendation: [link]
Network Code or Guideline	All three network codes have been redrafted to form one System Operation Guideline			Being drafted as a European Network Code, but potential to become a Guideline
Phase of development	ENTSO-E have redrafted the text which is now with the Commission			Comitology Preparations
Status Update	Draft text with Commission			Following ACERs Opinion and Recommendation, the network code is being prepared for Comitology.
Next Milestone	To be discussed at the Cross Border Committee meeting in December 2015 and will be voted on in January 2016			Comitology
GB Stakeholder Issues	Captured in April 2013: <ul style="list-style-type: none">Consistency and clarity of definitions.Resynchronisation.Data provision.National Regulatory Authority oversight.Performance indicators.	Captured in April 2013: <ul style="list-style-type: none">Outage plans and consistency of reporting requirements with REMIT and Transparency Regulation.Definition, roles and responsibilities of TSOs.Definition of 'relevant user.' (NB – latest draft no longer uses term).	Captured in July 2012: <ul style="list-style-type: none">National Regulatory Authority oversight.Retrospective application.Imbalance netting.Frequency containment reserve sharing.	Captured in April 2015: <ul style="list-style-type: none">NRA RoleComms ResilienceLack of time obligationsScope – EU Dimension A full list of the issues captured can be found on the JESG website
Contacts	DECC	Steve Davies steve.davies@decc.qsi.gov.uk 0300 068 6088	Steve Davies steve.davies@decc.qsi.gov.uk 0300 068 6088	Steve Davies steve.davies@decc.qsi.gov.uk 0300 068 6088
	Ofgem	David Freed david.freed@ofgem.gov.uk 0207 901 1827	David Freed david.freed@ofgem.gov.uk 0207 901 1827	David Freed david.freed@ofgem.gov.uk 0207 901 1827
	NGET	James Bradley James.Bradley@nationalgrid.com 0118 936 3814	Greg Heavens Greg.Heavens@nationalgrid.com 0118 936 3522	John Young john.young4@nationalgrid.com 0118 936 3280
Next Stakeholder Engagement Opportunity	Workshop was held on 3 November 2015 based on the draft text. Next workshop will be held on 3 December 2015 and it is expected that the Commission will release the draft text before that.			Stakeholders will be engaged via JESG when a revised draft is released to Member States/ further information communicated.

Electricity European Network Codes & Guidelines Summary

03 November 2015

		Coordination	
JESG Technical Secretary		Sara-Lee Kenney europencodes.electricity@nationalgrid.com	
Contacts	DECC	Sue Harrison sue.harrison@decc.gsi.gov.uk	Elena Mylona elena.mylona@decc.gsi.gov.uk +44 (0)3000685065
	Ofgem	Mark Copley Mark.Copley@ofgem.gov.uk 0203 263 9662	Natasha Smith Natasha.Z.Smith@ofgem.gov.uk 0203 263 9670
	NGET	Bec Thornton bec.thornton@nationalgrid.com 01926 656386	Sara-Lee Kenney Saralee.kenney@nationalgrid.com 01926 655883