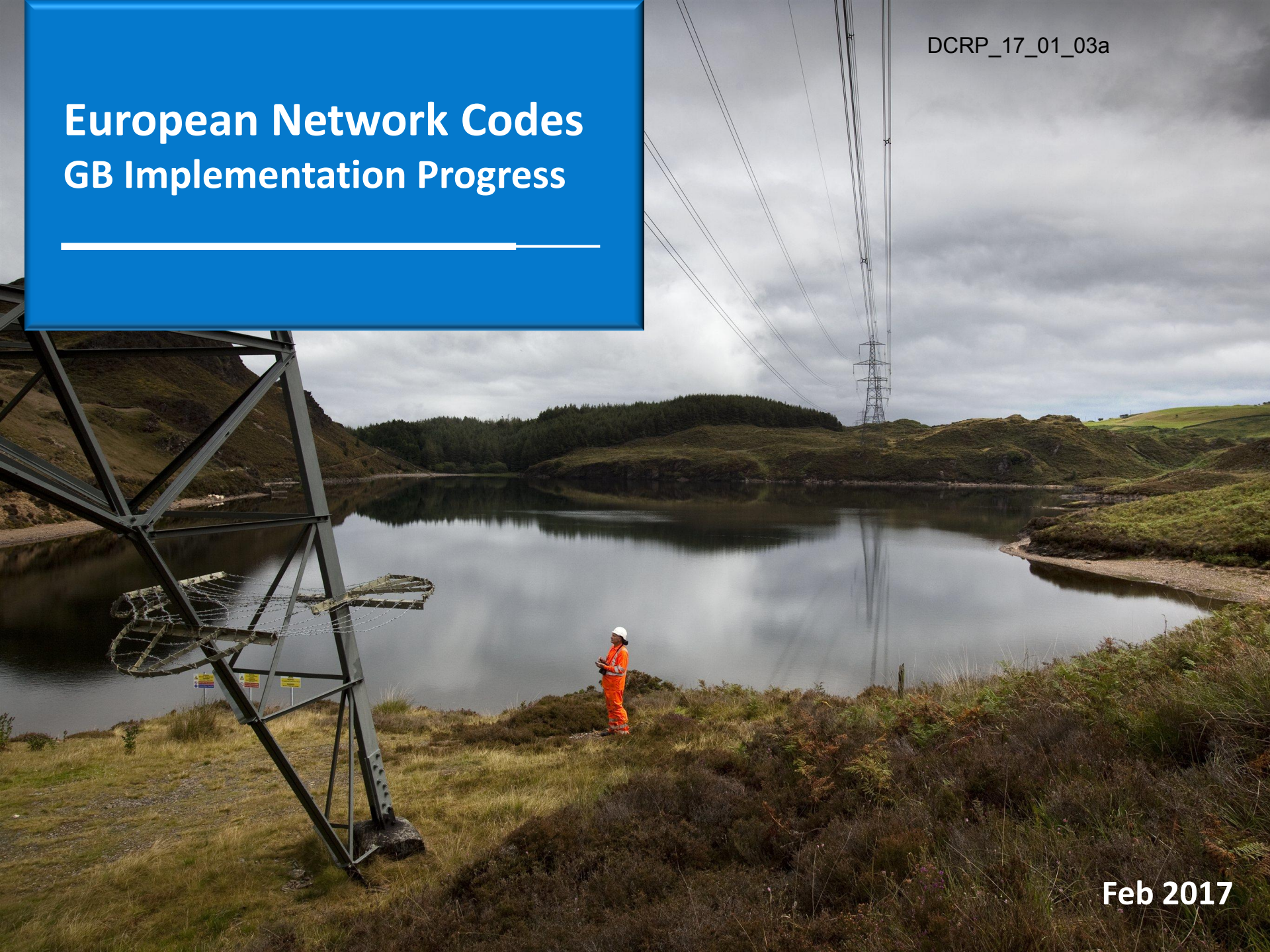


European Network Codes GB Implementation Progress



Feb 2017

European Network Codes Implementation

Purpose of today

- Initial draft code modification plan shown in Nov 2016
- Opportunity today to:
 - Provide update on progress of modification plan
 - Show rationale for changes including:
 - Reduction in modifications
 - Merging of modifications
- Further discussions to be held with code administrators to finalise plan including timescales

European Network Codes Implementation

November 2016: Initial Plan for code modifications

- Built on basis of workgroup progress and code mapping
 - Dependent on status of codes - first point where all have either entered into force or text is reasonably stable
- Presented at stakeholder forums in Nov/Dec 2016
- Significant number of modifications identified
 - Feedback that number was high

European Network Codes Implementation

February 2017: Updated plan for code modifications

- Greater level of understanding of all modification packages
- Reassessed on a rolling basis looking at:
 - Whether a modification was actually required
 - Where there are dependencies
 - Where the areas of code affected/timescales facilitated merging together
- Timescales also been considered, will continue to be worked on in conjunction with code administrators

European Network Codes Implementation

February 2017: Updated plan for code modifications

- Examples of modifications removed:
 - Work being done outside codes (eg through legislation or methodologies)
 - Consequential changes to I/C access rules – will be revised separately
 - C16 – covered by normal review process
- Examples of initial modifications being merged:
 - RfG banding and fault ride through – a dependency identified where neither could be approved without knowing the result of the other
 - TSOG – coordinated security analysis and regional outage coordination – similar themes and timescales
 - E&R – system defence plan and restoration plan – interdependencies
 - E&R – market suspension and total/partial shutdown – any change to latter dependent on development of suspension plan

European Network Codes Implementation

Next Steps

- Continue discussions with Code Administrators
- Modifications to then be 'raised' at respective code panels.
- Implementation of Grid Code Open Governance provides opportunity to revisit some existing work which is currently in progress e.g. GC0048

EU Code Family	Ref	Modification Description	Which GB Code To be Applied	Code Administrator	Modification Reference	Required Compliance Date	Dependencies
Connection Codes	Requirements for Generators (EIF - 17/05/2016) & HVDC (EIF - 29/09/2016)						
	1	Grid Code - RfG Banding and Fast Fault Current Injection, RfG and HVDC Fault Ride Through	Grid Code	National Grid	GC0048	17/05/2018	
	2	Distribution Code - RfG Banding and Fast Fault Current Injection, RfG and HVDC Fault Ride Through	Distribution Code	ENA	TBC	17/05/2018	
	3	Grid Code - RfG and HVDC Voltage/Reactive and Frequency Response requirements	Grid Code	National Grid	GC0048	17/05/2018	
	4	Distribution Code - RfG and HVDC Voltage/Reactive and Frequency Response requirements	Distribution Code	ENA	TBC	17/05/2018	
	5	Grid Code - Compliance and System Management	Grid Code	National Grid	GC0048	17/05/2018	
	6	Distribution Code - Compliance and System Management	Distribution Code	ENA	TBC	17/05/2018	
	DCC (EIF - 07/09/2016)						
Market Codes	7	Grid Code - DCC Technical & Demand Side Response Requirements	Grid Code	National Grid	GC0091	07/09/2018	
	8	Distribution Code - DCC Technical & Demand Side Response Requirements	Distribution Code	ENA	TBC	07/08/2018	
	CACM (EIF - 14/08/2015)						
	9	Grid Code – to enable data provision between NGET and other TSOs	Grid Code	National Grid	TBC	Q2 2018	Common Grid Model Project
	10	Grid Code – to enable interconnector data provision to NGET after GB gate closure	Grid Code	ENA	TBC	Q1 2019 (TBC)	
	EB GL (EIF - Q3 2017 Expected)						
	11	EB GL - General Compliance (BSC)	BSC	Elxon	TBC	Q3 2018	
	12	EB GL - General Compliance (Grid Code)	Grid Code	National Grid	TBC	Q3 2018	
	13	EB GL - General Compliance (Distribution Code)	Distribution Code	ENA	TBC	Q3 2018	
	14	BSC - Publication of information	BSC	Elxon	TBC	Q4 2018	Project TERRE
	15	BSC - Assignment Elxon Tasks	BSC	Elxon	TBC	Q3 2017	
	16	BSC - Replacement Reserves	BSC	Elxon	P344	Q4 2018	Project TERRE
	17	Grid Code - Replacement Reserves	Grid Code	National Grid	GC0097	Q4 2018	Project TERRE
	18	CUSC - Replacement Reserves	CUSC	National Grid	TBC	Q4 2018	Project TERRE
	19	Grid Code - manual Frequency Restoration Reserves	Grid Code	National Grid	TBC	Q3 2021	mFRR Project
	20	BSC - manual Frequency Restoration Reserves	BSC	Elxon	TBC	Q3 2021	mFRR Project
	21	CUSC - manual Frequency Restoration Reserves	CUSC	National Grid	TBC	Q3 2021	mFRR Project
	22	BSC - Imbalance Settlement Harmonisation	BSC	Elxon	TBC	Q3 2020	
Operational Codes	TSOG (EIF - 01/07/2017 Expected)						
	23	STC - Multi TSO Training Cooperation	STC	National Grid	TBC	Q3 2018	
	24	SQSS - Determination of Minimum required Inertia	SQSS	National Grid	TBC	Q3 2019	
	25	Grid Code - TSO requirements for data exchange	Grid Code	National Grid	TBC	Q3 2018	
	26	D-Code - TSO requirements for data exchange	Distribution Code	ENA	TBC	Q3 2018	
	27	STC - TSO requirements for data exchange	STC	National Grid	TBC	Q3 2018	
	28	Grid Code - Regional Outage Coordination and Security Analysis	Grid Code	National Grid	TBC	Q4 2018	
	29	D-Code - Regional Outage Coordination and Security Analysis	Distribution Code	ENA	TBC	Q4 2018	
	30	SQSS - Regional Outage Coordination and Security Analysis	SQSS	National Grid	TBC	Q4 2018	
	31	STC - Regional Outage Coordination and Security Analysis	STC	National Grid	TBC	Q4 2018	
	32	Grid Code - TSO requirements in relation to reserve providers and operational agreements	Grid Code	National Grid	TBC	Q4 2018	
	33	SQSS - TSO requirements in relation to reserve providers and operational agreements	SQSS	National Grid	TBC	Q4 2018	
	E&R (EIF - Q3 2017 Expected)						
	34	Grid Code - System Defence & Restoration Plans	Grid Code	National Grid	TBC	Q3 2018	
	35	BSC - Market Suspension	BSC	National Grid	TBC	Q3 2018	
	36	Grid Code - Market Suspension	Grid Code	National Grid	TBC	Q3 2018	

Distribution Code Modifications

Forward Work plan 2017 - 2019

