

Grid Code Alternative and Workgroup Vote

GC0141: Compliance Processes and Modelling amendments following 9th August Power Disruption

Please note: To participate in any votes, Workgroup members need to have attended at least 50% of meetings.

Stage 2 - Workgroup Vote

2a) Assess the Original and WAGCMs (if there are any) against the Grid Code objectives compared to the baseline (the current Grid Code).

2b) Vote on which of the options is best.

Terms used in this document

Term	Meaning
Baseline	The current Grid Code (if voting for the Baseline, you believe no modification should be made)
Original	The solution which was firstly proposed by the Proposer of the modification
WAGCM	Workgroup Alternative Grid Code Modification (an Alternative Solution which has been developed by the Workgroup)

The Applicable Grid Code Objectives:

- a) To permit the development, maintenance and operation of an efficient, coordinated and economical system for the transmission of electricity
- b) Facilitating effective competition in the generation and supply of electricity (and without limiting the foregoing, to facilitate the national electricity transmission system being made available to persons authorised to supply or generate electricity on terms which neither prevent nor restrict competition in the supply or generation of electricity);
- c) Subject to sub-paragraphs (i) and (ii), to promote the security and efficiency of the electricity generation, transmission and distribution systems in the national electricity transmission system operator area taken as a whole;
- d) To efficiently discharge the obligations imposed upon the licensee by this license and to comply with the Electricity Regulation and any relevant legally binding decisions of the European Commission and/or the Agency; and
- e) To promote efficiency in the implementation and administration of the Grid Code arrangements

Workgroup Vote

Stage 2a – Assessment against objectives

To assess the Original and WAGCMs against the Grid Code objectives compared to the baseline (the current Grid Code).

You will also be asked to provide a statement to be added to the Workgroup Report alongside your vote to assist the reader in understanding the rationale for your vote.

AGCO = Applicable Grid Code Objective

Workgroup Member	Better facilitates AGCO (a)	Better facilitates AGCO (b)	Better facilitates AGCO (c)	Better facilitates AGCO (d)	Better facilitates AGCO (e)	Overall (Y/N)
	Afshin Pashaei, NGET					
Original	Y	Y	Y	Y	Y	Y
WAGCM4	N	N	N	N	N	N
WAGCM6	N	N	N	N	N	N
WAGCM7	N	N	N	N	N	N
Voting Statement: Original proposal provides the most clear path to share the models and facilitate studies with clear accountability. WAGCM4, WAGCM6 and WAGCM7 can complicate the process, maintenance of the model can be costly and an ongoing burden on the ESO or TOs and accountability will not be clear in all three alternatives mentioned above.						

Workgroup Member	Better facilitates AGCO (a)	Better facilitates AGCO (b)	Better facilitates AGCO (c)	Better facilitates AGCO (d)	Better facilitates AGCO (e)	Overall (Y/N)
	Alastair Frew, Drax Generation Enterprise Ltd					
Original	Y	Y	Y	Neutral	Neutral	Y
WAGCM4	Y	Y	Y	Neutral	Neutral	Y
WAGCM6	Y	Y	Y	Neutral	Neutral	Y
WAGCM7	Y	Y	Y	Neutral	Neutral	Y
Voting Statement: To ensure safe and stable system development more modelling is required and there has to be a simpler arrangement to allow all parties to share their individual plant models. Given the ESO is running the system and has contractually agreements with all the other parties it would most appropriate that they had this role as per the Original Proposal.						

Workgroup Member	Better facilitates AGCO (a)	Better facilitates AGCO (b)	Better facilitates AGCO (c)	Better facilitates AGCO (d)	Better facilitates AGCO (e)	Overall (Y/N)
	Ben Marshall, HVDC Centre					
Original	Y	Y	Y	Y	Y	N
WAGCM4	N	N	N	N	N	N
WAGCM6	Y	Y	Y	Y	Y	Y
WAGCM7	N	N	N	N	N	N
Voting Statement: Based on experience across both Centre and TO, the IP associated with EMT model exchange, and the detail of network, user data and operation will not be practically provided outside of the TO or ESO provision of a hosted environment- the original approach as modified has a workable approach in principle but not one we believe in practice will lead to the practical exchange of data at a pace and level necessary to better support CC6.3.17 objectives.						

Workgroup Member	Better facilitates AGCO (a)	Better facilitates AGCO (b)	Better facilitates AGCO (c)	Better facilitates AGCO (d)	Better facilitates AGCO (e)	Overall (Y/N)
	Christopher Smith, National Grid Ventures/National Grid Interconnector Holdings Ltd					
Original	Y	Neutral	Y	Neutral	Neutral	Y
WAGCM4	Y	Neutral	Y	Neutral	Neutral	Y
WAGCM6	N	Neutral	N	Neutral	Neutral	N
WAGCM7	Y	Neutral	Y	Neutral	Neutral	Y
Voting Statement: WAGCM4 provides the most efficient method of achieving the aim without onerous commercial implications						

Workgroup Member	Better facilitates AGCO (a)	Better facilitates AGCO (b)	Better facilitates AGCO (c)	Better facilitates AGCO (d)	Better facilitates AGCO (e)	Overall (Y/N)
	Colin Foote, SP Energy Networks					
Original	Y	Y	Y	Y	Y	Y
WAGCM4	Y	Y	N	N	N	N
WAGCM6	Y	Y	N	N	N	N
WAGCM7	Y	Y	N	N	N	N
Voting Statement: All options would deliver benefits but the Original would be most efficient.						

Workgroup Member	Better facilitates AGCO (a)	Better facilitates AGCO (b)	Better facilitates AGCO (c)	Better facilitates AGCO (d)	Better facilitates AGCO (e)	Overall (Y/N)
	Isaac Gutierrez, Scottish Power Renewables (UK) Limited					

Original	Y	Y	Y	Y	Y	Y
WAGCM4	N	N	N	N	N	N
WAGCM6	N	N	N	N	N	N
WAGCM7	N	N	N	N	N	N

Voting Statement:

SPR agrees that the ESO/TO share models as required for SSCI_SSTI studies

Workgroup Member	Better facilitates AGCO (a)	Better facilitates AGCO (b)	Better facilitates AGCO (c)	Better facilitates AGCO (d)	Better facilitates AGCO (e)	Overall (Y/N)
Mark Horley, National Grid ESO						
Original	Y	Y	Y	Y	Y	Y
WAGCM4	Y	Y	N	Y	Y	N
WAGCM6	Y	Y	N	Y	Y	N
WAGCM7	Y	Y	N	Y	Y	N

Voting Statement: The WAGCM4 and WAGCM6 are all less efficient than the Original in terms of facilitating efficient completion of the required studies as there is a separation between the User who has the equipment parameters and the Consultants who carry out studies. This creates a back and forth of proposed equipment set up and how it behaves. WAGCM7 is a technological solution that is not available now to solve the current problems and is not ruled out as a solution by the Original.

Workgroup Member	Better facilitates AGCO (a)	Better facilitates AGCO (b)	Better facilitates AGCO (c)	Better facilitates AGCO (d)	Better facilitates AGCO (e)	Overall (Y/N)
Marko Grizelj, Siemens Energy Ltd						
Original	Y	Y	Y	Y	Y	Y
WAGCM4	Y	Y	Y	N	N	N
WAGCM6	Y	Y	Y	N	N	N
WAGCM7	Y	Y	Y	N	N	N

Voting Statement:

Original better facilitates the AGCOs.

Workgroup Member	Better facilitates AGCO (a)	Better facilitates AGCO (b)	Better facilitates AGCO (c)	Better facilitates AGCO (d)	Better facilitates AGCO (e)	Overall (Y/N)
Martin Aten, Uniper Technologies Limited						
Original	Y	Y	Y	Y	Y	Y
WAGCM4	N	N	N	N	N	N
WAGCM6	N	N	N	N	N	N
WAGCM7	N	N	N	N	N	N

Voting Statement:

Workgroup Member	Better facilitates AGCO (a)	Better facilitates AGCO (b)	Better facilitates AGCO (c)	Better facilitates AGCO (d)	Better facilitates AGCO (e)	Overall (Y/N)
	Michael Smailes, Offshore Renewable Energy Catapult					
Original	Neutral	Neutral	Neutral	Neutral	Neutral	Y
WAGCM4	Neutral	Neutral	Neutral	Neutral	Neutral	N
WAGCM6	Neutral	Neutral	Neutral	Neutral	Neutral	N
WAGCM7	Neutral	Neutral	Neutral	Neutral	Neutral	N
Voting Statement:						

Workgroup Member	Better facilitates AGCO (a)	Better facilitates AGCO (b)	Better facilitates AGCO (c)	Better facilitates AGCO (d)	Better facilitates AGCO (e)	Overall (Y/N)
	Nicola Barberis Negra, Orsted Hornsea Project Three Uk Ltd					
Original	N	Y	Y	N	Y	N
WAGCM4	N	Y	Y	N	Y	N
WAGCM6	N	Y	Y	N	Y	N
WAGCM7	N	Y	Y	N	Y	N
<p>Voting Statement: I have a concern that the current proposal and alternatives for SSTI and CI studies are discharging the SO and TOs of their responsibility to maintain and operate safely the transmission network. By asking Users that have no or limited visibility of the entire network and of its operability, the SO and TO is effectively asking others the take charge of their Licencee's requirements. This is standard practise in many other countries and we see no reasons why this approach could not be applied in the UK. Hence my vote here.</p> <p>Users should maintain the flexibility of doing the studies themselves or employ a consultant on a project-by-project basis based on the User's choice, if the overall responsibility for system stability is transferred from the SO to the Users. So, if this solution is brought forward, then my preferred solution is the original proposal. If models cannot be directly shared with the Users, then a remote access to an environment managed by SO/TO would be my preferred second choice (WAGCM6).</p>						

Workgroup Member	Better facilitates AGCO (a)	Better facilitates AGCO (b)	Better facilitates AGCO (c)	Better facilitates AGCO (d)	Better facilitates AGCO (e)	Overall (Y/N)
	Pukar Mahat, Siemens Gamesa Renewables					
Original	Y	N	N	N	N	N
WAGCM4	Y	N	N	N	N	N
WAGCM6	Y	Y	Y	Y	Y	Y
WAGCM7	Y	Y	Y	Y	Y	Y

Voting Statement:

Having a host study environment with remote access will remove the need of supplier having an NDA with various parties

Workgroup Member	Better facilitates AGCO (a)	Better facilitates AGCO (b)	Better facilitates AGCO (c)	Better facilitates AGCO (d)	Better facilitates AGCO (e)	Overall (Y/N)
	Sigrid Bolik, Siemens Plc					
Original	N	Y	N	Neutral	Neutral	N
WAGCM4	Y	Y	Y	Neutral	Neutral	Y
WAGCM6	Y	Y	Y	Neutral	Neutral	Y
WAGCM7	Y	Neutral	Y	Neutral	Neutral	Y

Voting Statement:

All alternatives protect IP and therefore improve the quality of investigation.

Workgroup Member	Better facilitates AGCO (a)	Better facilitates AGCO (b)	Better facilitates AGCO (c)	Better facilitates AGCO (d)	Better facilitates AGCO (e)	Overall (Y/N)
	Tim Ellingham, RWE Supply and Trading					
Original	Y	Y	Y	N	Y	N
WAGCM4	Y	Y	Y	N	Y	Y
WAGCM6	Y	Y	Y	N	Y	Y
WAGCM7	Y	Y	Y	N	Y	N

Voting Statement:

Stage 2b – Workgroup Vote

Which option is the best? (Baseline, Proposer solution (Original Proposal), or WAGCMs 4, 6, 7)

Workgroup Member	Company	BEST Option? (Original, Baseline, WAGCMs)	Which objective(s) does the change better facilitate? (if baseline not applicable)
Afshin Pashaei	NGET	Original	All
Alastair Frew	Drax Generation Enterprise Ltd	Original	a, b, c
Ben Marshall	HVDC Centre	WAGCM6	All
Christopher Smith	NG Ventures/NG Interconnector Holdings Ltd	WAGCM4	a, c
Colin Foote	SP Energy Networks	Original	All

Isaac Gutierrez	Scottish Power Renewables (UK) Limited	Original	All
Mark Horley	NGESO	Original	All
Marko Grizelj	Siemens Energy Ltd	Original	All
Martin Aten	Uniper Technologies Limited	Original	All
Michael Smailes	Offshore Renewable Energy Catapult	Original	N/A
Nicola Barberis Negra	Orsted Hornsea Project Three Uk Ltd	Baseline	N/A
Pukar Mahat	Siemens Gamesa Renewables	WAGCM7	All
Sigrid Bolik	Siemens Plc	WAGCM7	a, c
Tim Ellingham	RWE Supply and Trading	WAGCM6	a, b, c, e

Of the 14 votes, how many voters said this option was best.

Option	Number of voters that voted this option as better than the Baseline
Original	8
Baseline	1
WAGCM4	1
WAGCM6	2
WAGCM7	2