

Grid Code Alternative and Workgroup Vote

GC0182: Standardisation of Power Flow Metering Polarity

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

Stage 1 – Alternative Vote

If Workgroup Alternative Requests have been made, vote on whether they should become Workgroup Alternative Grid Code Modifications (WAGCMs).

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)

For reference the Applicable Grid Code Objectives are:

- i. To permit the development, maintenance and operation of an efficient, coordinated and economical system for the transmission of electricity

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- ii. *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);*
- iii. *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;*
- iv. *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*
- v. *To promote efficiency in the implementation and administration of the Grid Code arrangements*

* See Electricity System Operator Licence

Workgroup Vote

Stage 1 – Alternative Vote

N/A

Stage 2a – Assessment against objectives

To assess the Original 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 (i)	Better facilitates AGCO (ii)	Better facilitates AGCO (iii)	Better facilitates AGCO (iv)	Better facilitates AGCO (v)	Overall (Y/N)
	Thomas Goss – NESO					
Original	Y	Y	Y	Y	Y	Y
Voting Statement: I believe that this Modification achieves broad improvements to the overall efficient management of the system and allows NESO to better manage the data and provide accurate forecasting and reporting.'						

Workgroup Member	Better facilitates AGCO (i)	Better facilitates AGCO (ii)	Better facilitates AGCO (iii)	Better facilitates AGCO (iv)	Better facilitates AGCO (v)	Overall (Y/N)
	Andrew Urquhart– SSE					
Original	Y	Neutral	Neutral	Neutral	Y	Y
Voting Statement: SSE supports approval and implementation of GC0182. We previously raised concerns regarding the implementation approach and the mechanisms available to correct polarity issues. We welcome NESO's amendments, including the 540-day implementation period and the provision of both software and hardware solutions to correct incorrect polarity. Our sole remaining concern is the inclusion of guidance within connection agreements on matters that are not legal obligations. This could be construed as creating a compliance obligation before the modification takes effect, whereas the information would otherwise have been guidance only and not a mandatory requirement. While this issue is not significant enough to affect our support for GC0182, we would caution against a similar approach being adopted in future						

modifications, as it could create unnecessary ambiguity regarding the distinction between guidance and formal compliance obligations.

Workgroup Member	Better facilitates AGCO (i)	Better facilitates AGCO (ii)	Better facilitates AGCO (iii)	Better facilitates AGCO (iv)	Better facilitates AGCO (v)	Overall (Y/N)
	Tim Ellingham – RWE					
Original	Y	Neutral	Y	Neutral	Y	Y

Voting Statement:

We feel this is a logical modification to clear up a widespread issue going forwards. We would like to request that the proposed standard is applied in a pragmatic way to older plant with low load factors who are just maintaining operational metering, where significant replacement costs are unwarranted.

Workgroup Member	Better facilitates AGCO (i)	Better facilitates AGCO (ii)	Better facilitates AGCO (iii)	Better facilitates AGCO (iv)	Better facilitates AGCO (v)	Overall (Y/N)
	Ross Strachan – EDF					
Original	Y	Neutral	Y	Neutral	Y	Y

Voting Statement:

EDF support the adoption of an Electrical Standard to ensure metering polarity is consistent across the network. EDF expects that any future revisions of this Electrical Standard are made with the appropriate governance and are notified to the wider industry to avoid CUSC parties failing to work to latest standards.

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Workgroup Member	Better facilitates AGCO (i)	Better facilitates AGCO (ii)	Better facilitates AGCO (iii)	Better facilitates AGCO (iv)	Better facilitates AGCO (v)	Overall (Y/N)
	Graeme Vincent – SP Transmission					
Original	Y	Neutral	Y	Y	Neutral	Y
Voting Statement: By ensuring a common understanding and alignment of the metering polarity convention for power flow data should improve the operational understanding of the transmission system and therefore contribute to a more efficient, co-ordinated and economic operation.						

Workgroup Member	Better facilitates AGCO (i)	Better facilitates AGCO (ii)	Better facilitates AGCO (iii)	Better facilitates AGCO (iv)	Better facilitates AGCO (v)	Overall (Y/N)
	Roger Carter – Transmission Investment					
Original	Y	Neutral	Y	Neutral	Y	Y
Voting Statement: The proposal introduces a common convention that should improve connection compliance, commissioning activities and the consistency of operational data provided to NESO, supporting more efficient and secure system operation. Whilst the practical application of the convention to reactive power flows in particular will become clearer as it is applied across the range of assets and configurations, the overall approach should reduce the need for polarity corrections and operational workarounds. The forward-looking implementation approach should help limit additional costs to users.						

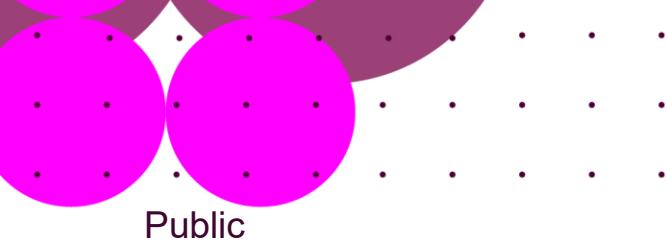
Of the 6 votes, how many voters said this option was better than the Baseline.

Option	Number of voters that voted this option as better than the Baseline
Original	6

Stage 2b – Workgroup Vote

Which option is the best? (Baseline, Proposer solution (Original Proposal))

Workgroup Member	Company	Industry Sector	BEST Option?	Which objective(s) does the change better facilitate? (if baseline not applicable)
Thomas Goss	NESO	System Operator	Original	i), ii), iii), iv) and v)
Andrew Urquhart	SSE	Generator	Original	i) and v)
Tim Ellingham	RWE	Generator	Original	i), iii) and v)
Ross Strachan	EDF	Generator	Original	i), iii) and v)
Graeme Vincent	SP Transmission	Onshore Transmission Licensee	Original	i), iii) and iv)



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Roger Carter	Transmission Investment	Onshore Transmission Licensee	Original	i), iii) and v)
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