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Code Administrator Meeting

Summary

Workgroup Meeting 10: GC0182 Standardisation of Power Flow Metering Polarity

Date: 11 September 2026

Contact Details

Chair: Ren Walker, Lurrentia.Walker@neso.energy

Proposer: Thomas Goss, Thomas.goss2@neso.energy

Key areas of discussion

The Workgroup finalised the Legal text and Workgroup Report, confirmed that all remaining actions were closed, and completed its final vote before submission of the Workgroup Report to the Grid Code Review Panel.

Actions Log Review

- **Action 51 | Closed:** The Workgroup Report had been updated to explain that the proposal was forward-looking and that the £100 million figure was hypothetical and illustrative.
- **Action 52 | Closed:** The Workgroup reviewed the revised Legal text covering applicable GB Code User and EU Code User scenarios and mutual agreement arrangements.
- **Action 53 | Closed:** The Workgroup confirmed completion of the terminology review concerning operational metering equipment.
- **Action 56 | Closed:** The revised Legal text removed the need to distinguish substantial or material modifications for the applicability test.
- **Action 57 | Closed:** The Proposer confirmed that a Network Operator classed as a GB Code User would remain a GB Code User when entering a new or amended Bilateral Connection Agreement after 2019. The revised Connection Conditions addressed new Plant and Apparatus for relevant Network Operators.
- **Action 58 | Closed:** The Workgroup Report recorded the consideration of Terms of Reference G and the application of the convention to Active Power and Reactive Power.
- **Action 59 | Closed:** The Workgroup Report clarified that the previously cited cost figures were illustrative, that the expected scale was hundreds of thousands rather than hundreds of millions, and that the proposal was forward-looking.

Outcome: All remaining actions were closed. No new actions were raised.

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Legal Text Review

Applicability and 540-day cut-off

The Proposer confirmed that the Modification would apply to Network Operators classed as GB Code Users and that a new or amended Bilateral Connection Agreement after 2019 would not, by itself, change that classification. The NESO SME presented revised drafting for GB Code Users and EU Code Users using Completion Date, rather than the Bilateral Agreement date, as the cut-off for new Plant and Apparatus. Operational metering equipment installed or subject to a Modification on or after the same cut-off would also be within scope. A 540-day period was retained to align with the stated timing of the compliance process and to capture relevant connections already in the queue.

The Workgroup retained the two applicability limbs in the Connection Conditions and the corresponding drafting in the European Connection Conditions. In other situations, the drafting provided for mutual agreement with the relevant Code User. It was clarified that compliance could be achieved through a software change where this delivered the required signal polarity to NESO.

Outcome: Agreed. The Legal text was retained subject to the final drafting amendments recorded during the meeting.

Electrical Standard and related dependencies

The Workgroup reviewed the draft Electrical Standard. A member reported that diagrams were difficult to read when the document was opened in a browser. The NESO SME agreed that a clear version should be provided and would confirm whether an approved template existed. The Workgroup also discussed the proposed General Conditions reference and the interaction with GC0103. The proposed reference was retained, with the GC0103 alignment to be checked if required.

The NESO SME explained that the draft Electrical Standard would accompany the Workgroup Report to the Grid Code Review Panel. The Grid Code and related STC changes were intended to progress in coordination, with the Electrical Standard becoming live when the relevant modifications were approved.

Outcome: For final drafting and presentation checks before submission.

Workgroup Report Review

The Workgroup reviewed unresolved comments in the draft Workgroup Report. It agreed to use “convention” consistently, retain the explanation supporting the 540-day period, add the scenario diagrams, clarify that software changes could be used to correct polarity, and revise wording on pre-energisation polarity validation. The report would also retain the GC0103 dependency, distinguish the illustrative £100 million figure from the more realistic scale of hundreds of thousands, and refer to consumer benefit.

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The Workgroup reviewed its Terms of Reference and confirmed that the report recorded how they had been addressed, including that the Electrical Standard applied to both Active Power and Reactive Power. A small number of drafting changes were left for completion before the final circulation.

Outcome: Agreed subject to the identified final drafting amendments and member verification.

Workgroup Vote

The Workgroup completed the assessment of the Original solution against the Applicable Grid Code Objectives. Six eligible members voted. The outcome was unanimous that the Original solution was preferable to the baseline and was the best option. Voting statements and the detailed recording of votes were to be checked in the circulated Workgroup Report.

Outcome: Agreed. The Proposer's Original solution was the preferred and best option.

AOB

The Code Administrator invited participants to complete the 2026 CACoP Stakeholder Survey. No other business affecting GC0182 was raised.

Next Steps

The Workgroup phase was complete. Voting statements were to be provided by close of play on 11 September 2026. The updated Workgroup Report and recorded votes were to be circulated for checking by close of play on 14 September 2026. The Workgroup Report and annexes were to be submitted to the Grid Code Review Panel on 16 September 2026 for consideration at its meeting on 24 September 2026.

Actions

Action Number	Workgroup Raised	Owner	Action	Due by	Status
51	WG8	All	Clarification of Prospective vs Retrospective Application and Media Figures: Ensure the Workgroup Report and wider publication clearly state that the proposal is prospective only, not retrospective, and clarify the	WG10	Closed

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illustrative nature of the £100 million figure in light of recent media reports.

52	WG8	TG/HG	Legal Text Review and Mutual Agreement Scenarios: Review and update the legal text to clarify scenarios requiring mutual agreement, including the use of terms such as "modification" and "upgrade", and ensure alignment with the correct definitions and obligations for GB and EC code users.	WG9	Closed
56	WG9	HG	Clarify how substantial or material modifications are determined for network operators and ensure the distinction and trigger are expressed consistently in the legal text, supported by appropriate examples.	WG10	Closed
57	WG9	HG	Confirm whether network operators remain GB code users or transition to EU code users when entering a new bilateral connection agreement and determine the resulting obligations for the metering polarity standard.	WG10	Closed
58	WG9	RW	Record in the Workgroup Report that Terms of Reference G was considered and explain the conclusion	WG10	Closed

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regarding active and reactive power-flow clarity.

59	WG9	RW	Capture in the Workgroup Report that the previously cited cost figures were illustrative, that actual costs are in the hundreds of thousands rather than hundreds of millions, and that the modification is forward-looking rather than retrospective.	WG10	Closed
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Name	Initial	Company	Role
Ren Walker	RW	NESO	Chair
Ayo Bammeke	AB	NESO	Technical Secretary
Thomas Goss	TG	NESO	Proposer
Andrew Hood	AH	NGED	Workgroup Member
Andrew Urquhart	AU	SSE Generation	Workgroup member
Elena Fry	EF	NESO	Observer
Graeme Vincent	GV	SP Transmission	Workgroup member
Hao Guo	HG	NESO	NESO Representative
Paul Youngman	PY	DRAX	Workgroup member
Roger Carter	RC	Transmission Investment	Workgroup member
Ross Strachan	RS	EDF	Workgroup member
Rui Zhang	RZ	NESO	Observer

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Tim Ellingham

TE

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Workgroup
member
alternate