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Code Administrator Meeting Summary

Workgroup Meeting 3: Metering Polarity

Date: 25 November 2025

Contact Details

Chair: Prisca Evans, Prisca.Evans@neso.energy

Proposer: Thomas Goss, Thomas.Goss2@neso.energy

Key areas of discussion

Action Log Review

The Chair led a review of the Action Log.

Actions 1, 8 and 10 were to remain open with further work required.

Action 5, 6, 7, and 9 were closed following the below updates during the Proposer presentation to the Workgroup.

New Actions 11-22 were opened and have been detailed below in the action log.

Proposers Presentation

NESO clarified that for existing sites, changes to operational metering would only require compliance with the new standard if the metering was replaced or upgraded after the Grid Code change, and that the SCADA team and operational metering team would be involved in testing and verification.

NESO confirmed that Legal Text updates, including references to operational notifications, had been made and would be detailed in the implementation plan, while The Proposer noted that the STC panel member would join GC0182 as a Workgroup observer to ensure alignment between related modifications, though the representative was not yet confirmed.

Proposed Implementation Plan

The Proposer outlined a plan where, in stage one, the new requirements would begin immediately for new offers, with the Appendix F5 schedule being updated and added to new connection agreements, and in stage two, following Ofgem approval, the new standard would be formalised as an Electrical Standard and referenced in the Grid Code, with connection agreements updated to refer to the Grid Code.

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Several Workgroup Members raised concerns over modifying agreements and questioned the appropriateness of introducing a new standard into connection agreements before Grid Code approval, highlighting the need for proper governance and the risk of creating confusion or inconsistency, especially if the standard is considered a CUSC exhibit.

NESO provided context for the interim use of Bilateral Connection Agreement (BCAs) in past cases, such as during the first storage and wind farm connections to the system, explaining that such measures were sometimes necessary due to lengthy Grid Code modification processes, but acknowledged the associated risks and the need for consensus. One Workgroup member highlighted that if Ofgem were to reject GC0182, that any interim requirements added to BCA's during Phase 1 would need to be removed from all affected contracts, this was confirmed by NESO. The Workgroup agreed that the preferred approach was to proceed via a Grid Code modification, with any interim arrangements requiring careful consideration and possibly further consultation with the panel and industry stakeholders.

One Workgroup member highlighted that if Ofgem were to reject the modification, that any interim requirements added to BCA's during Phase 1 would need to be removed from all affected contracts. Antony confirmed that in such a scenario, the obligations would have to be reversed out of the bilateral agreements. ¹

This was highlighted as a risk of the two-stage approach, with concerns raised about the potential for wasted effort and confusion for generators if requirements are implemented and then withdrawn.

The Workgroup discussed the distinctions between operational and settlement metering, the application of the standard to various user types (including Network Operators, Licence Exemptible Embedded Medium Power Station (LEEMPS) and Interconnectors), and the technical processes for compliance and data flows.

NESO explained that settlement metering is used for energy payments and is of high accuracy, while operational metering is for system control and is of lower accuracy, with some signals derived from settlement meters to avoid duplication; the requirements for each are specified in different sections of the Grid Code and bilateral agreements.

The Workgroup clarified that the standard would apply to Generators, LEEMPS and, depending on contractual arrangements, certain Embedded Generators and Network Operators, with obligations passed through the Distribution Code and bilateral agreements as appropriate.

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NESO described the technical steps and costs involved in changing metering polarity, including wiring changes, software reconfiguration, and, in rare cases, full meter replacement, with costs potentially reaching £21,000 per meter box if replacement is required.

The Proposer detailed the process for compliance checks, including SCADA team involvement, operational metering testing, and the use of compliance checklists, one Workgroup Member highlighted the need to clarify obligations for Network Operators and the handling of data via ICCP links.

Workgroup Consultation Document Review

The Chair led a detailed review of the Workgroup Consultation document.

The Proposer agreed to revise the Workgroup Consultation document to clearly list all affected parties, including Generators, LEEMPS, Network Operators, and others, ensuring that users can easily determine whether the GC0182 applies to them.

The Workgroup requested that the Workgroup Consultation document be reworded to accurately reflect the operational challenges, such as the need for manual corrections during commissioning, rather than overstating the risk of billing errors or system operation issues.

The Workgroup agreed that the draft relevant electrical standard and explanatory notes would be included as an annex to the Workgroup Consultation document and made available on the collaboration space, rather than embedded in the main text of the Workgroup Consultation document.

AOB

One Workgroup Member raised concerns that external participants could not access documents in the Microsoft Word app via the NESO collaboration for document review. The Chair agreed to email documents to those Workgroup members unable to use the collaboration space and to transfer comments to the master copy, while also committing to raise the access issue internally for a long-term solution.

Next Steps

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The Workgroup agreed to schedule an additional meeting in December and move the Workgroup consultation to January to allow time for further review and clarification.

Actions

For the full action log, click [here](#).

Action Number Raised	Workgroup	Owner	Action	Due by	Status
4	WG2	TG/PP	Propose a clear and consistent implementation date for the new requirements, ensuring alignment across all relevant documents.	WG3	Open
5	WG2	TG/PP	Review and suggest a streamlined approach for implementing compliance via the BCA, considering whether to use only the electrical standards and BCA or also include CCs/ECCs.	WG3	Closed
6	WG2	HG	Update the Legal Text as discussed, including clarifying references to operational notifications	WG3	Closed

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7	WG2	AG/HG	Confirm the relevant section of the ECC refers specifically to limited operation notification (LON) or applies more broadly, to ensure the legal text aligns with the correct operational notification sequence (EON, ION, LON).	WG3	Closed
8	WG2	TG	Confirm in what capacity STC Panel member joining the Workgroup	WG3	Closed
9	WG2	TG	Find out the technical difficulty of implementing the changes, i.e. is it a matter of connecting 2 wires one way or the other upon installing a meter.	WG3	Closed
10	WG2	PP	Obtain and provide feedback, on the need for a guidance note on the installation of operational metering for non-participants.	WG3	Open
11	WG3	TG/HG	Review the GC0103 Legal text and determine if it can be built on for GC0182 and identify any Legal text changes needed to GC0182 to ensure alignment with GC0103.	WG4	New
12	WG3	GV & TG	Check Legal text to confirm that obligations for Licence Exemptible Embedded	WG4	New

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			Medium Power Station (LEEMPS) are correctly passed via the Distribution Code and update references if needed		
13	WG3	PP	Clarify whether changes to Appendix F5 templates (or other BCA appendices) sit outside of the CUSC governance process before embedding new standards.	WG4	New
14	WG3	PP	Clarify whether the new metering polarity standard will apply to all connection offers reissued as part of the connections reform process, or only to new offers.	WG4	New
15	WG3	HG/PE	Upload the draft the new Electrical Standard to the collaboration space and add it as an annex in the Workgroup Consultation document.	WG4	New
16	WG3	HG/PP	Update the Workgroup Consultation document to clearly list all affected parties, referencing GB code users, EU code users, LEEMPS, and Embedded Generators as appropriate.	WG4	New
17	WG3	HG/RC	Clarify in the Workgroup Consultation document the practical application of the standard for new and existing	WG4	New

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			connections, including completion date and upgrade scenarios.		
18	WG3	TG	Reword the “What is the issue” and “Why change” sections in the Workgroup Consultation document to accurately reflect the operational challenges and avoid overstating the issue.	WG4	New
19	WG3	PP/HG	Clarify the impact of the Modification on Interconnectors in the Workgroup Consultation document, specifying whether and how they benefit or are affected.	WG4	New
20	WG3	PP	Reference and clarify in the Workgroup consultation document how forecasting inaccuracies are a defect being addressed by the Modification.	WG4	New
21	WG3	TG	Elaborate in the Workgroup Consultation document why engagement with Network Operators was or was not required, given reliance on their data.	WG4	New
22	WG3	PP/HG	Add examples in the Workgroup Consultation document of operational metering data flows from	WG4	New

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network operators to NESO, especially where Network Operators are involved.

Attendees

Name	Initial	Company	Role
Prisca Evans	PE	NESO	Chair
Andrew Hemus	AH	NESO	Technical Secretary
Thomas Gross	TG	NESO	Proposer
Pritesh Patel	PP	NESO	Proposer Alternate
Aggie Gwozdz	AG	NESO	Observer
Alan Creighton	AC	Northern Powergrid	Workgroup Member
Andrew Urquhart	AU	SSE	Workgroup Member
Anthony Johnson	AJ	NESO	NESO Representative
Elena Fry	EF	NESO	Observer
Graeme Vincent	GV	SP Transmission	Workgroup Member Alternate
Hao Guo	HG	NESO	NESO Representative
Harry Burns	HB	EDF	Workgroup Member
Nina Sanghera	NS	DRAX	Workgroup Member Alternate
Paul Drew	PD	Ofgem	Authority Representative
Paul Youngman	PY	DRAX	Workgroup Member
Rebecca Coan	RC	NESO	Observer
Tim Ellingham	TE	RWE	Workgroup Member Alternate