

**Approved Minutes of the Ireland Grid Code Review Panel (GCRP) Meeting
EirGrid Conference Call
03 November 2020**

Member Attendance:

<u>Name</u>	<u>Present</u>	<u>Role</u>	<u>Company</u>
John Ging	Y	Ireland GCRP Chair	EirGrid
Miriam Ryan	Y	TSO Member	EirGrid
Anne Trotter	Y	TSO Member	EirGrid
Michael McCormack	Y	Grid Connected Thermal Generators	Bord na Móna
Jennifer Geraghty	Y	Grid Connected Thermal Generators	SSE
Rory Griffin	Y	Grid Connected CCGT Generators	Bord Gais Energy
Daniel Grandjean	Y	Grid Connected CCGT Generators	Tynagh Energy
Mark Coleman	Y	Grid Connected Non-Synchronous Renewable Generators	SSER
Peter King	Y	Grid Connected Non-Synchronous Renewable Generators	Ionic Consulting
William Carr	Y	Grid Connected Pumped Storage	ESB GWM
Position Open		Grid Connected Synchronous Renewable Generators	
Position Open		Grid Connected Fast Peaking Plants	
Mark Phelan	Y	ESB PES	Electric Ireland
Position open		Independent Electricity Supplier	
Cormac Fitzpatrick	Y	Transmission Asset Owner	ESB Networks TAO
Dylan Ashe alternate for Robert O'Rourke	Y	Regulator	CRU
Karl O'Keeffe	Y	Irl - Interconnector Owner	East-West Interconnector
Deirdre Hughes	Y	Market Operator	SEMO
Tony Hearne	Y	Distribution System Operator	ESB Networks
Paddy Finn	N	Grid Connected Demand Side Units	Electricity Exchange
Lisa McMullan	Y	Grid Connected Demand Side Units	Grid Beyond
Katie McArdle	Y	Grid Connected Demand Customers	Amazon
Tom Birney	Y	Battery Storage	Statkraft

Other Attendees:

<u>Name</u>	<u>Present</u>	<u>Role</u>	<u>Company</u>
Arlene Chawke	Y	GCRP Secretary	EirGrid
Niamh Daly	Y	TSO Presenter	EirGrid
Eric Lambert	Y	TSO Presenter	EirGrid
John McGuckin	Y	TSO Presenter	EirGrid
Alan Rogers	Y	TSO Presenter	EirGrid
Katia Compagnoni	Y	TSO Observer	EirGrid
Colin D'Arcy	Y	Greenlink Observer	EirGrid
Christopher Goodman	Y	TSO Observer	EirGrid
Sandra Linnane	Y	TSO Observer	EirGrid
Seamus Power	Y	TSO Observer	EirGrid

1. Introduction to Ireland GCRP Meeting & Approval of Minutes

- a) John Ging (Chair) welcomed all members, observers and presenters to the meeting. John has replaced Arthur Moynihan as Chair of the Ireland GCRP. John is the manager of the Operations, Development and Compliance department within EirGrid. The function of the Grid Code and GCRP now sits within this department. John further extended a welcome to Tom Birney (Battery Storage) from Statkraft. Tom recently joined the panel and will represent Battery Storage.
- b) Tom Birney (Battery Storage) provided an introduction to his renewable storage career to date and his role in Grid Services within Statkraft.
- c) John Ging (Chair) provided some housekeeping recommendations for the meeting and informed the participants that the meeting will be recorded for Minute taking purposes only and the recording will not be saved or archived.
- d) John Ging (Chair) reviewed the actions from the [Previous Meeting](#) (02 July 2020) and noted that no comments were received and the Minutes were deemed approved. An update was provided on the actions:
 1. Proposed Modification MPID 276(a) Update on the Incorporation of DCC non-exhaustive parameters
Action 2(c): TSO to issue a modification recommendation paper to the CRU for their review and approval.
 Closed - the TSO issued a recommendation paper to the CRU, 10 August 2020. The modification proposal was approved by the CRU, 07 October 2020.
 2. Proposed Modification MPID 281 – DCC Derogation Process
Action 3(e): TSO to issue a modification recommendation paper to the CRU for their review and approval.
 Closed - the TSO issued a recommendation paper to the CRU, 10 August 2020.

3. Proposed Modification MPID 282 - DCC Operational Notification Process
Action 4(d): TSO to issue a modification recommendation paper to the CRU for their review and approval.
Closed – the TSO issued a recommendation paper to the CRU, 10 August 2020.
Action 4(e): TSO to bring a DCC User Operational Notification business process to the panel members at the next GCRP meeting.
Open - this action remains outstanding; work is underway as to how best to progress and the TSO will revert to members as soon as possible.
4. Proposed Modification MPID 284 – PC.A8.2 and PC.A8.5 Simulation Compliance
Action 5(b): The TSO to circulate the Supplementary Document containing all modelling and simulation details with the Minutes to this meeting.
Closed – the document was circulated with the previous Minutes.
Action 5(c): Arthur Moynihan (Chair) encouraged members to provide comments to this document when they receive it with the Minutes (within ten working days of receipt of the Minutes and document).
Closed - no comments were received within the ten working days. Subsequently IWEA issued comments to the TSO and Alan Rogers (TSO Presenter) will provide an update later in this meeting, as per the agenda.
Action 5(g): TSO to issue a modification recommendation paper to the CRU for their review and approval.
Closed – the TSO issued a recommendation paper to the CRU, 10 August 2020.
Action 5(h): TSO to issue the supplementary paper on simulation compliance with the Minutes.
Closed – the document was circulated with the previous Minutes.
5. Proposed Modification MPID 279 – Correction of Connection Voltage Graphs for 110kV and 220KV Systems under PPM1.6.3.4
Action 6(c): TSO to issue a modification recommendation paper to the CRU for their review and approval.
Closed – the TSO issued a recommendation paper to the CRU, 10 August 2020.
6. Proposed Modification MPID 278 - Correction of Reactive Power Capability Requirements under CC.7.3.6.1
Action 7(c): Miriam Ryan (TSO) and Tony Hearne (DSO) to discuss a similar modification that is required to the Distribution Code.
Action 7(h): TSO to issue a modification recommendation paper to the CRU for their review and approval.
On hold - the TSO issued a recommendation paper to the CRU, 10 August 2020. Subsequently an issue with the modification proposal was raised by a GCRP member and the modification was formally withdrawn 23 October 2020. The TSO is currently reviewing and will bring an amended proposal to the panel members at a future date.
Action 7(f): Miriam Ryan (TSO) to investigate bringing an amendment to the CAT.
Closed - Miriam Ryan has highlighted the amendment to the CAT.

7. Modification Proposal MPID 280

Action 8(c): TSO to issue a modification recommendation paper to the CRU for their review and approval.

Closed - the TSO issued a recommendation paper to the CRU, 10 August 2020.

8. Modification Proposal MPID 283

Action 9(c): TSO to issue a modification recommendation paper to the CRU for their review and approval.

Closed - the TSO issued a recommendation paper to the CRU, 10 August 2020.

9. DCC Articles 27 to 30 – retaining these articles outside of the Grid Code

Action 10(c): Miriam Ryan (TSO) to follow up on the unit type for the market registration of DSUs and revert to Paddy Finn (Demand Side Units).

Closed – this query is being dealt with directly with Paddy Finn (Demand Side Units).

10. PPM FRT Update

Action 11(e): The TSO to issue a Grid Code clarification note along with guiding principles with the Minutes of this meeting.

Closed – the document was circulated with the previous Minutes.

Action 11(g): Alan Rogers (TSO) to provide a PPM FRT Update presentation at a DCRP Meeting – the date to be arranged with Tony Hearne (DSO).

Open – this will take place once the clarification notes and guiding principles have been fully agreed with IWEA.

11. Two actions under AOB

Following a request from Peter King (Non-Synchronous Renewable Generator) for a timeline on the completion of the Interpretation of the Registered Capacity piece of work, Miriam Ryan (TSO Member) agreed to bring a timeline to the GCRP members at the next meeting.

Open – the TSO is currently reviewing the options as to how best to progress this large body of work. Further updates will be provided as soon as next steps have been developed.

Members to provide feedback on the GCRP meeting conducted via conference call.

Closed – some members have recommended using Microsoft Teams. The TSO have noticed stability issues with this in the past. For the next meeting the TSO are considering combining the conference call facility and Microsoft Teams.

2. Proposed Modification MPID 285 – Correction of RfG Derogation Process Forms References

- a) Anne Trotter (TSO Member) presented slides (3 to 6 inclusive) on house-keeping modification proposal MPID 285, correction of form references for the RfG Derogation forms.
- b) No comments, questions or objections were raised by the panel members.
- c) **ACTION: The TSO to issue a modification recommendation paper to the CRU for their review and approval.**

3. Proposed Modification MPID 286 – Correction of graph in clause CC.7.3.6.5

- a) Niamh Daly (TSO Presenter) presented slides (7 to 9 inclusive) on modification proposal MPID 286, correction of graph in clause CC.7.3.6.5.
- b) No comments, questions or objections were raised by the panel members.
- c) **ACTION: The TSO to issue a modification recommendation paper to the CRU for their review and approval.**

4. Proposed Modification MPID 287 - PPM1.7.1.2.1 and PPM1.7.1.6 Wind Farm Signal List

- a) Eric Lambert (TSO Presenter) presented slides (10 to 12 inclusive) on modification proposal MPID 287, PPM1.7.1.2.1 and PPM1.7.1.6 Wind Farm Signal List.
- b) Eric noted that the TSO is not recommending to retrospectively apply these changes to existing Wind Farm Signal Lists.
- c) William Carr (Pumped Storage) suggested the specification of a timeframe for the calculation of the 97.5% accuracy in clause PPM.1.7.1.6 – over a rolling monthly or a rolling annual period.
- d) Seamus Power (TSO Observer) agreed to review this as a point of clarity and the TSO will revert to members with a response.
- e) No objections were raised by the panel members.
- f) **ACTION: The TSO to review a time frame for the calculation of the 97.5% accuracy and circulate a revised modification to the members along with the Minutes.**
- g) **ACTION: GCRP members to provide comments to the revised modification proposal within ten working days of receipt of the Minutes and the revised modification (deadline date for receipt of comments, close of business Friday, 30 November). If no comments or objections are received within that period, the TSO will issue a recommendation paper to the CRU.**
- h) **ACTION: Once the modification proposal is finalised and agreed with the GCRP members, the TSO will propose a similar change to the Distribution Code.**

5. Proposed Modification 288 – Blackstart Test Scheduling

- a) Niamh Daly (TSO Presenter) presented slides (13 to 16 inclusive) on modification proposal MPID 288, BlackStart Test Scheduling.

- b) This modification proposal captures the Grid Code changes required to be compliant with the Network Code Emergency Restoration (NCER). It was also emphasised that the NCER is retrospective.
- c) Rory Griffin (CCGT) provided a comment on experience when the TSO requested Whitegate to be at the receiving end of a Blackstart Test as a remote station. Rory recommended that the TSO provide as much notice as possible when a supplier is asked to make their transformer available for such a test.
- d) **ACTION: Niamh Daly (TSO Presenter) will pass on Rory Griffin's (CCGT) comment and recommendation to the relevant team within EirGrid.**
- e) William Carr (Pumped Storage) stated that he has no objection to the proposed modification as drafted but queried why this requirement is being included in the Grid Code and not being included in the services agreement as drawn up with the Blackstart providers.
- f) Miriam Ryan (TSO Member) pointed out that under the NCER this is a mandatory exhaustive requirement and the TSO are obligated to incorporate the requirement into the Grid Code. A service agreement (a bilateral agreement) is not a Grid Code requirement and therefore we would not be compliant with the NCER if it was included in the service agreements.
- g) No objections were raised by the panel member.
- h) **ACTION: The TSO to issue a modification recommendation paper to the CRU for their review and approval.**

6. Update on the RfG, DCC & HVDC Derogation Requests and DCC RfAs

- a) Miriam Ryan (TSO Member) provided an update on derogation requests applied for by the TSO against the RfG, DCC and HVDC Network Code (slides 17 to 19 inclusive).
- b) Full details are provided on the [CRU website](#). The TSO will update the EirGrid website and will circulate the link.
- c) William Carr (Pumped Storage) enquired as to the timeframe for implementing the corrections to the RfG.
- d) Miriam Ryan (TSO member) noted that the current version cannot be corrected. No correction process was provided for in the code itself. The corrections will be included in the next generation of the RfG code. The amendment committee have received far more amendment requests than they had initially envisaged, and a timeline has yet to be issued.
- e) **ACTION: Miriam Ryan (TSO Member) to follow up on the timeframe for the issue of the next generation of the RfG Network Code.**

7. Update on the Application of the CNCs to Existing Users

- a) Miriam Ryan (TSO Member) provided an update on the application of connection codes to existing users (slides 20 to 22 inclusive). The Connection Network codes are not retrospective and do not apply to existing users unless they undergo modernisation, refurbishment and replacement of equipment that drives a change to the connection agreement.
- b) A joint guideline document has been drafted by EirGrid and ESB Network. The CRU has reviewed the guideline. All three parties have agreed with the document. This guideline has

been circulated to EirGrid customers and to DCRP members. The TSO and DSO will both publish the guideline on their individual websites.

- c) William Carr (Pumped Storage) noted that it is a pragmatic approach to the implementation of the connection codes to existing users and it should not unintentionally stop the evolution of plant characteristics to enable our renewable targets. He agreed with the proposed approach and noted it is a well balanced step forward.

8. ESB Networks Distribution Code Update

- a) Tony Hearne (DSO Member) provided an update on the recent activity at the Distribution Code panel (slides 23 and 24).
- b) No comments were received.

9. Update on the HVDC Decision Paper

- a) Miriam Ryan (TSO Member) provided an update on the CRU decision paper on the HVDC requirements (slides 25 to 27 inclusive). EirGrid are working through reviewing the paper. The TSO are currently drafting the Grid Code modifications in order to incorporate the requirements into the Grid Code. They intend to bring the proposed modifications to the GCRP members by late December 2020/early January 2021.
- b) Members are invited to send any comments/questions to gridcode@eirgrid.com on the requirements, the decision paper or the incorporation of the requirements.
- c) Colin D'Arcy (Observer - Greenlink) noted that this is a critical document and welcomed the imminent proposed Grid Code modifications given the timing of the development of their interconnector. Greenlink are eager to engage with the TSO on specific requirements that may apply.
- d) **ACTION: Miriam Ryan (TSO Member) will discuss specific requirements off-line with Colin D'Arcy and with Paul McGoldrick, the project manager.**
- e) Cormac Fitzpatrick (TAO) queried the functional specifications for such connections in terms of the assets that must be built.
- f) **ACTION: Miriam Ryan (TSO Member) noted that these are very much site specific but will follow up with the Project Manager and will follow up off-line with Cormac.**
- g) John Ging (Chair) echoed what Miriam said, it is technology specific and dependant on the interface boundary of ownership. That said he would like for the TSO to follow up off-line with Cormac on this.

10. Derogations Update

- a) Anne Trotter (TSO Member) provided an update on Derogation applications, assessments and approvals (slides 28 to 29 inclusive). The TSO are working through the backlog of derogation applications and plan to be in a better position over the coming business year.
- b) Anne encouraged applicants to alert the TSO if a derogation request has material implications and the TSO will prioritise this application.

11. EirGrid Level 2 Organisational Update

- a) John Ging (Chair) provided a high-level update on the recent organisational changes within EirGrid, concentrating on the Chief Operations Office and Chief Innovation and Planning Office.
- b) John recommended sending in any queries to Arlene Chawke (GCRP secretary) should a member have issues in making contact with the relevant person for a particular item, send your queries to gridcode@eirgrid.com and you will be directed to the correct person.

12. CRU Update

- a) Dylan Ashe (CRU) provided further updates:
 - Modifications:
 - i. Revised MPID 276(a) has been approved by the CRU.
 - ii. MPID 278 has been withdrawn by the TSO.
 - iii. Remainder of the modification recommendations have been signed off internally and the CRU will issue the approval papers to the TSO.
 - Derogations:
 - i. The CRU will be aiming to work through the derogations in batches in order to close off the significant number.

13. Energy Storage Implementation

- a) John McGuckin (TSO Presenter) provided a presentation on a body of work that took place during the year to facilitate the connection of Battery Energy Storage, slides 35 to 48 inclusive. It is apparent that the current PPM section of the Grid Code is tailored for wind farms and it is not easily applied to Battery Energy Storage. The TSO have developed an Implementation Note for Battery Energy Storage that is available [here](#) on the EirGrid website. The TSO are encouraging stakeholders, developers and GCRP panel members to review the document and provide feedback to the TSO. This document will form the basis of the likely required amendments to the Grid Code in order to facilitate the connection of Battery Energy Storage. Work is ongoing with ESB Networks and NIE to develop the changes required to the Distribution Code. The TSO are keen to get the requirements into the Grid Code and will monitor what is going on at EU Network Code level.
- b) **ACTION: John McGuckin will ensure the link to the document is working correctly and will also update a graphic on slide 44.**
POST MEETING NOTE: These actions are closed.
- c) Tom Birney (Battery Storage) and his alternate, Bobby Smith, are actively engaged with industry to collate feedback to the Implementation Note and will issue this to the TSO as soon as it is gathered. There are a few high-level points that Tom would like to engage with the TSO on and he recommended a future workshop with the TSO.
- d) John McGuckin (TSO Presenter) welcomed the opportunity of a workshop after the feedback from industry is received and reviewed.
- e) Cormac Fitzpatrick (TAO) provided a final comment on the concept of combined characteristics of facilities i.e. battery storage and wind. This will need to be teased out.

- f) John McGuckin (TSO Presenter) confirmed that work is ongoing through the Hybrid Workstream of FlexTech.
- g) **ACTION: Members have been advised to send relevant queries/comments directly to John McGuckin or generator_testing@eirgrid.com or gridcode@eirgrid.com.**

14. FRT for PPMs Update

- a) Alan Rogers (TSO Presenter) provided an update on the FRT for PPMS, slides 49 and 50.
- b) Peter King (Non-Synchronous Renewable Generator) thanked Alan for accepting the late comments from IWEA.
- c) **ACTION: The TSO will circulate a response to the comments from IWEA, and will work towards finalising all the supplementary documents.**

15. AOB

- a) No items were raised by the members under AOB.
- b) Please provide comments to the draft Minutes withing ten working days of issue, deadline date for receipt of comments is close of business Friday, 30 November.