

27/09/2023

EirGrid GCRP Meeting

27 September 2023



EirGrid GCRP Agenda

INTRODUCTION: 10 mins

- a. Welcome to Members.
- b. Minutes and Actions from [Previous Meeting](#) (25 June 2023).

PROPOSAL: 65 mins

- a. MPID 313 House-keeping OC Clauses.
- b. MPID 314 PPM RfG Reference Correction.
- c. MPID 315 House-keeping PPM Clauses.
- d. MPID 317 Digital Interface Clarification for Controllable PPMs.
- e. MPID 305 Incorporation of Offshore PPM Requirements.

UPDATES: 10 mins

- a. Grid Code Derogations.
- b. CRU.

AOB. 5 mins



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MPID 313

House-keeping OC Clauses

Melissa Dunne



MPID 313 House-keeping OC Clauses

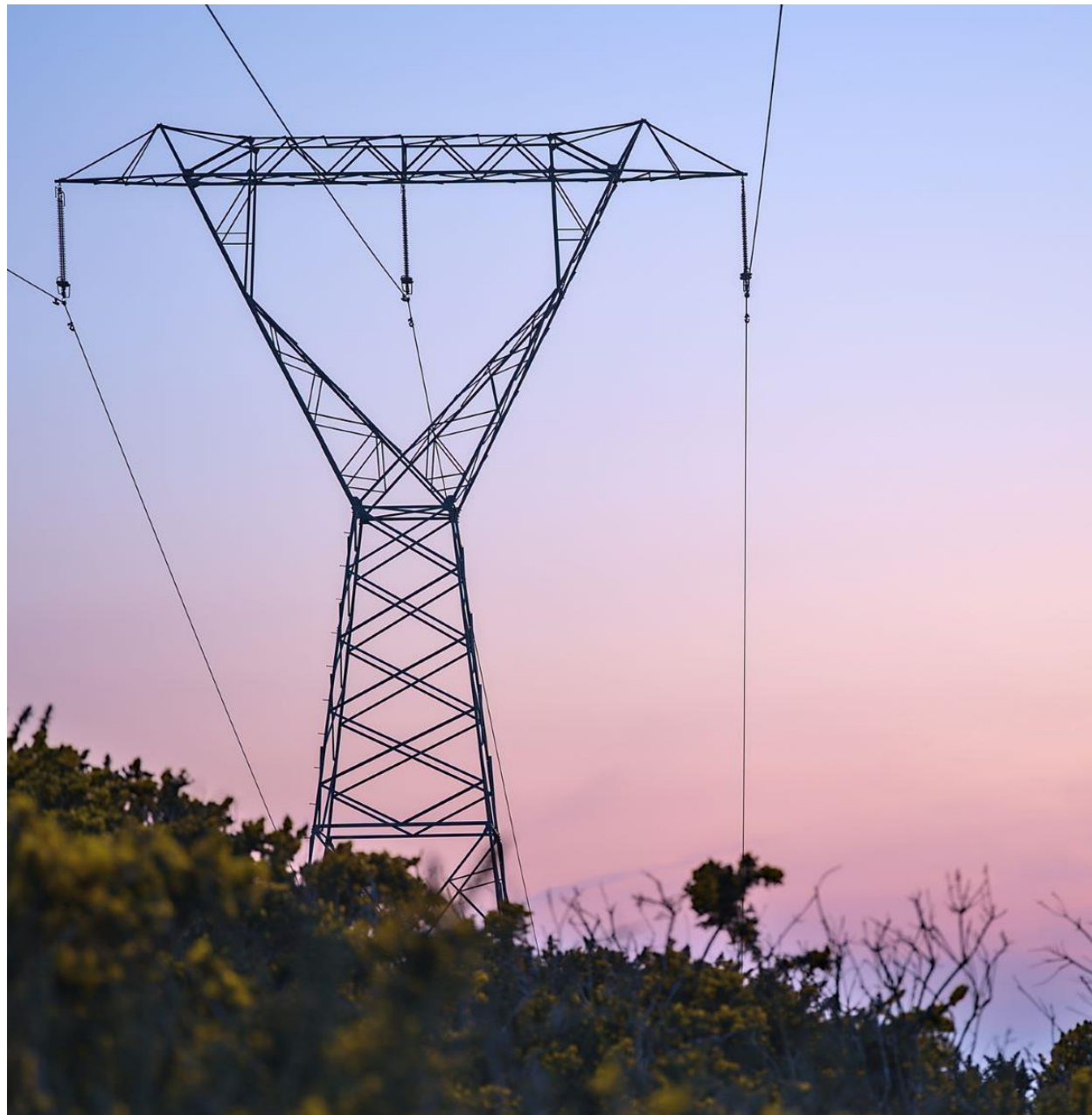
- Several housekeeping style errors have come to our attention in Grid Code version 12.
- The TSO propose to fix those errors that span various clauses within the Operating Conditions (OC).
- Link to the modification proposal paper [MPID 313](#) (*this link is available on the day of the meeting, otherwise please see email document attachment MPID 313*).

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MPID 314

PPM RfG Reference Correction

Niamh Daly



MPID 314 - PPM RfG Reference Correction

The purpose of this modification is to clarify a reference to the frequency response deadband in PPM1.5.3.3.

Rather than referring back to PPM1.5.3.2 (which includes multiple values), we propose removing the reference and explicitly stating the deadband requirement of +/-15mHz within PPM1.5.3.3.

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MPID 315

House-keeping PPM Clauses

Melissa Dunne



MPID 315 House-keeping PPM Clauses

- Several housekeeping style errors have come to our attention in Grid Code version 12.
- The TSO propose to fix those errors that span various clauses within the PPM and Acronyms sections.
- Link to the modification proposal paper [MPID 315](#) (*this link is available on the day of the meeting, otherwise please see email document attachment MPID 315*).

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MPID 317

Digital Interface Clarification for Controllable PPMs

Melissa Dunne



MPID 317- Digital Interface Clarification for Controllable PPMs

This modification proposal provides additional text for clause PPM1.7.1.1, clarifying that:

- Controllable PPMs with an analogue interface are required to make potential free auxiliary contacts available at the designated TSO Telecommunication Interface Cabinet
- Controllable PPMs with a digital interface are not required to make potential free auxiliary contacts available at the designated TSO Telecommunication Interface Cabinet

MPID 305

Incorporation of Offshore PPM Requirements

Miriam Ryan



MPID 305 - Offshore PPM Requirements

The Government of Ireland is committed to achieving 80% of Ireland's electricity being produced by renewable sources by 2030.

In order to achieve this, 5 GW of offshore wind-powered generation is planned over several phases.

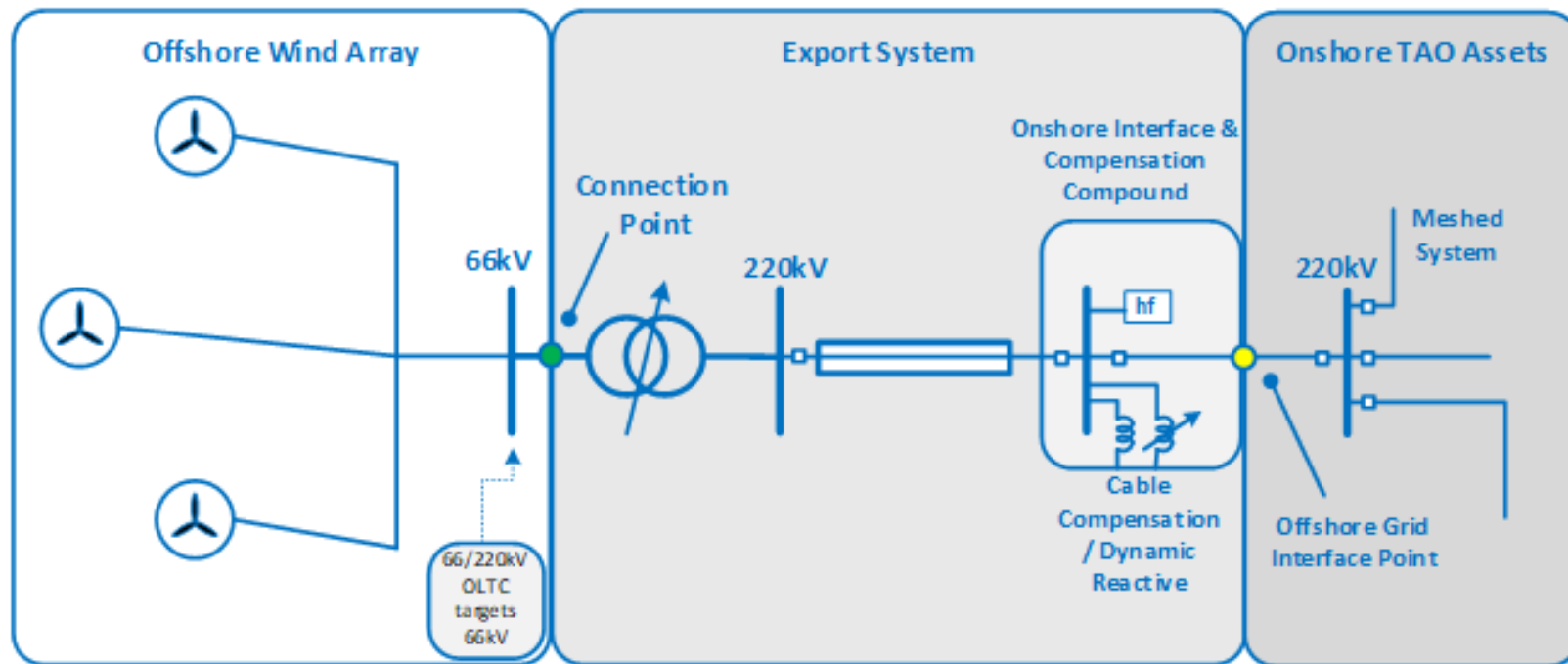
The purpose of this Grid Code Proposal is to bring forward the Grid Code Modifications for Phase 1 of offshore PPM projects.

The Phase 1 Projects will be developer lead with the offshore PPM developer constructing:

- the offshore PPMs;
- the 220 kV offshore Transmission System up to the Grid interface point with the onshore Transmission System.



MPID 305 - Offshore PPM Requirements



MPID 305 - Offshore PPM Requirements

This proposal details the requirements which the Offshore PPMs will need to comply with at their offshore Connection Point.

The proposal was based on but not limited to:

- the expertise of both internal and external subject matter experts;
- the existing Grid Code and RfG requirements for PPMs; and
- the Offshore PPM Design and Operation Philosophy document.



MPID 305 - Offshore PPM Requirements

Over 80 comments were received in relation to the original draft proposal.

All but two have been closed:

- **Harmonic Voltage Distortion:**

EirGrid is carrying out a review of the existing harmonic policy. The received comment will be addressed as part of this review. EirGrid will engage with the Phase 1 offshore PPM Developers as part of the review.

- **Multiple configuration for the Offshore PPM array:**

This comment has been placed on hold pending the outcome of the ongoing consultation on the Connection Point for the offshore PPMs.



MPID 305 - Offshore PPM Requirements

Key Points of this proposal:

- The requirements that the Offshore PPMs must meet at their offshore Connection Point;
- The Active Power requirements for onshore and offshore wind powered PPMs are the same;
- Offshore PPMs must operate at unit power factor during the normal 66 kV Voltage range but can deviate from unity power factor during the disturbed 66 kV Voltage range.
- Fault clearance times:
 - 400 ms for a single phase fault;
 - 100 ms for 2 and 3 phase faults.



MPID 305 - Offshore PPM Requirements

The Proposal does not detail any of the requirements for:

- the onshore compensation compound; and
- the grid interface point.

From a Grid Code viewpoint, the onshore compensation compound and the grid interface point are:

- part of the normal Transmission System; and
- covered by the normal Grid Code Planning requirements.



MPID 305 - Offshore PPM Requirements

Correction to proposal CC7.3.1.1(x):

Remain synchronised to the **Transmission System** and operate within the ranges of the **Transmission System Voltage** at the connection point, ~~for an unlimited time period~~, as specified below:

- i. 400 kV system: 360 kV to 420 kV (0.9 p.u. – 1.05 p.u.) *for an unlimited time period*
- ii. 220 kV system: 198 kV to 245 kV (0.9 p.u. – 1.114 p.u.) *for an unlimited time period*
- iii. 110 kV system: 99 kV to 123 kV (0.9 p.u. – 1.118 p.u.) *for an unlimited time period*
- iv. 66 kV system (for offshore PPMs):
 - a) 63 kV to 69 kV (0.95 p.u. to 1.05p.u.) *for an unlimited time period*
 - b) 60 kV to 63 kV (0.909 p.u. to 0.95 p.u.) *for a period of 15 minutes*
 - c) 69 kV to 72 kV (1.05 p.u. to 1.09 p.u.) *for a period of 15 minutes.*



MPID 305 - Offshore PPM Requirements

Comments from ESB in relation to:

- OC11.4 Safety Rules
- The interaction between the ESB Networks Electrical Safety Rules and the EirGrid Safety Rules at the interface between the ESB owned transmission Assets and the EirGrid owned Transmission Assets.



MPID 305 - Offshore PPM Requirements

Questions?



Derogations Update

Ciaran Maguire



Derogations

Under TSO Assessment	179
With CRU	150
With CRU not Expired	124
Approved	470
Approved not Expired	35

Derogations Under TSO Assessment

Total	179
Battery	18
Windfarm/Hybrid	88
CCGT	16
OCGT	14
DSU	22
Category	
Active Power	73
Reactive Power	35

CRU Update



AOB

Meeting Minutes will be issued by COB 10 October 2023