

Grid Code Modification Proposal Form

Email to gridcode@eirgrid.com



Title of Modification Proposal: Incorporation of Battery ESPS Grid Code Implementation Note

MPID (EirGrid Use Only): 304

Date:	25 April 2023
Company Name:	EirGrid PLC
Applicant Name:	Aaron Keogh
Email Address:	Gridcode@EirGrid.com
Grid Code Version:	Version 11
Grid Code Section(s) Impacted by Modification Proposal:	PPM1.4.1, PPM1.5.2.1, PPM1.5.2.2, PPM1.5.3.1, PPM1.5.3.2, PPM1.5.3.3, PPM1.5.3.4, PPM1.5.3.5, PPM1.5.3.6, PPM1.5.3.7, PPM1.5.3.10, PPM1.5.3.15, PPM1.5.4.1, PPM1.5.4.2, PPM1.6.1, PPM1.6.3.1, PPM1.7.1, PPM1.7.1.1, PPM1.7.1.3.5, PPM1.7.1.5, PPM1.7.2.3, PPM1.7.2.5, Definitions

Modification Proposal Justification:

This is a revised version of the modification brought to the GCRP on 9 November 2022. Details of all revisions can be found below.

The purpose of this modification proposal is to incorporate all relevant Grid Code elements from version 3 of EirGrid's [Battery ESPS Grid Code Implementation Note](#) into the Grid Code. This modification is limited in scope to the contents of that implementation note. This modification does not include a review of the entire Grid Code in relation to Battery ESPS incorporation.

Background:

Version 1 of the Battery ESPS Grid Code Implementation Note was first published in June 2019. Industry feedback was collected and used to develop version 2 in June 2020 and version 3 published in December 2021. All versions of the Battery ESPS Implementation Note were published online and have been visible to stakeholders.

Battery Energy Storage Power Stations (ESPS) are classified as Power Park Modules (PPM) in the Grid Code. ESPSs with a registered capacity greater than 1 MW must be controllable and dispatchable.

The Battery ESPS Grid Code Implementation Note reviewed only the PPM and Definition sections of the Grid Code and stated whether each clause applied, did not apply or required variations in order to apply. For clauses that required variation, those variations were described in detail. This modification proposal will incorporate those requirements directly into the Grid Code, therefore formalising arrangements that are already in practice. Once approved and incorporated into the Grid Code, the Grid Code elements of the Battery ESPS Grid Code Implementation Note will no longer be required, and the note will be removed from the EirGrid website. Non-Grid Code elements will be published in an alternative document.

MPID 304 was presented to the GCRP on 9 November 2022. The Energy Storage representative asked for additional time to review the proposed modification and a period of 2 weeks was agreed. On 29 November 2022 Energy Storage Ireland (ESI) submitted a list of comments to EirGrid regarding MPID 304. Through a series of discussions, PPM1.5.4.1 Capacity Limited Ramp Rate of 1% to 100% of Registered Capacity per minute was identified as the most significant concern for ESI. Since then, EirGrid and ESI have collaboratively developed a revised Capacity Limited Ramp Rate range which forms part of this revised version of

MPID 304. It was also agreed that this requirement would be reviewed 6 months after MPID 304 is approved by the CRU if requested by the TSO or Industry.

All other changes included in this revision are minor and are intended for the purpose of clarification.

Exclusions from Implementation Note Version 3:

The scope of this modification is limited to the contents of the Battery ESPS Grid Code Implementation Note, Grid Code PPM section and Grid Code Definitions section only.

The Battery ESPS Grid Code Implementation Note version 3 gives a description of “Pre-Agreed Charging”. Pre-Agreed Charging was not deemed appropriate for inclusion in this modification. Pre-Agreed Charging is a temporary operational measure that was included in V3 to give guidance to industry, not necessarily to advise on Grid Code alterations. Also, the Pre-Agreed charging criteria may undergo amendments before an enduring TSO operational solution is available.

Red-line Version of Impacted Grid Code Section(s) - show proposed changes to text:

Deleted text in ~~strike-through red font~~ and new text highlighted in [blue font](#)

See document entitled “**MPID304_GC11_RedLineVersion_Revision May 23**” attached to the GCRP invitation email.

Green-line Version of Impacted Grid Code Section(s) - show proposed final text:

See document entitled “**MPID304_GC11_Green Line Version_Revision May 23**” attached to the GCRP invitation email.