

**Grid Code
Modification Recommendation Form**



Title of Recommended Proposal: Current Definition

MPID (EirGrid Use Only): 335

Date:	12/08/2025
Recommended at GCRP Meeting No.:	26 th June 2025
Grid Code Version:	14.3
Grid Code Section(s) Impacted by Recommended Proposal:	• Definitions • See "MPID335_Featured Locations within Grid Code" for each use case of Current proposed to be bolded and capitalised as part of this modification

The Reason for the Recommended Modification:

While **Voltage** is a defined term within the **Grid Code**, the absence of a definition for electrical "current" creates a gap in the document's comprehensiveness. Electrical current is a fundamental concept in power systems, essential for understanding the flow of electricity through the grid. Therefore, it is imperative to add "current" as a defined term to ensure clarity and precision in technical discussions and documentation.

Additionally, reviewing and appropriately bolding each relevant instance of "current" based on its context will enhance the document's readability and accuracy, preventing any potential ambiguities or misinterpretations. Please view the document '*MPID335_Featured Locations within Grid Code*' to view the additional changes that will be made to the Grid Code.

History of Progression through GCRPs, Working Group and/or Consultation:

This proposed modification was first presented to the Grid Code Review Panel (GCRP) on 27th of March 2025. During the meeting, a query was raised regarding the scope of the proposed definition of "Current," specifically whether it could be expanded to include a reference to Direct Current (DC) in addition to the existing coverage of Alternating Current (AC). It was noted that the revised proposal, incorporating this expanded definition, would be appended to the minutes of the June GCRP meeting. Provided no objections are received, the modification will be formally recommended to the Commission for Regulation of Utilities (CRU).

Summary Note of any Objections to the Recommended Change from GCRP Members or Consultation Responses:

No objections were raised by GCRP members or through consultation responses. A recommendation was made by a member of the GCRP panel to expand the proposed definition to explicitly include Direct Current (DC), which was incorporated into the revised modification.

Outcome of any GCRP Meeting Actions Relating to the Recommended Modification:

The Grid Code team incorporated the recommended change to include Direct Current (DC) in the definition and circulated the updated modification to GCRP members with the minutes of the June meeting.

A Table Outlining the Proposed Changes:

Definition	Red Line Version Text <i>Deleted text in strike-through red font and new text highlighted in blue font</i>	Green Line Version Text
Current	The rate at which electric charge flows. • Alternating Current (AC) is measured as the root-mean-square (RMS) value of the positive sequence of the phase current at the fundamental frequency. • Direct Current (DC) is measured as the average value of the unidirectional current over a defined time interval under steady-state operating conditions. This term shall be applied as appropriate within the Grid Code.	The rate at which electric charge flows. • Alternating Current (AC) is measured as the root-mean-square (RMS) value of the positive sequence of the phase current at the fundamental frequency. • Direct Current (DC) is measured as the average value of the unidirectional current over a defined time interval under steady-state operating conditions. This term shall be applied as appropriate within the Grid Code.