

MINUTES OF CQTG MEETING 4

**Held on Wednesday 17 April 2024, 10:30am – 11:30am
Online meeting**

Members present: Sheila Matthews (Chair), Graeme Ancell, Brent Duder-Findlay, Barbara Elliston, Brad Henderson, Stuart Johnston, Stuart MacDonald, Mike Moeahu, Rob Orange, Jon Spiller, Gareth Williams.

Apologies: Matt Copland.

In attendance: Neville Watson, Victor Lo, Nyuk-Min Vong (Vong), Phillip Beardmore, Nasser Usman Faarooqui.

Introduction

- 1.1 The purpose of this online meeting was to provide the Common Quality Technical Group (CQTG) members with an opportunity to provide feedback on the draft harmonics discussion paper.
- 1.2 This relates to Action Item 3.18 from the third Common Quality Technical Group (CQTG) meeting held on 3 April 2024.

Summary of the key discussion points

- 1.3 The CQTG suggested various amendments and additions to the harmonics discussion paper, for the Authority's consideration. A summary of the key suggestions is provided below:
 - (a) Add context regarding interharmonics and sidebands.
 - (b) Ensure the proposal to align with AS/NZS 61000 rather than the IEC 61000 series is clear and consistent throughout the paper, and that references to IEC 61000 specify the exact standards within the series that we are referring to.
 - (c) Add more detail to the diagram in section 6.16 which relates to the governance section.
 - (d) Grid Owner will send through clarifications regarding some references to Transpower in the discussion paper.
 - (e) Suggestion to remove the table of options to reflect the change from an options paper to a discussion paper. This would be to avoid the perception

of the Authority advocating for one option over another due to the differing levels of detail provided in each section.

- (f) Suggestion to mention the compliance aspect, and maybe include a question for submitters on whether this should be managed through standards or something more prescriptive. We need to see if there is agreement from the industry about moving away from ECP36.
- (g) Emphasis on ensuring the questions for submitters are carefully targeted to get the information that we need.
- (h) Recommendation to add more information in the management section about timeframes.
- (i) Include information on possible mitigation measures, such as phase shifting, and reducing the diversity factor.
- (j) Provide clarification on the comment about network impedance which cannot always be linked back directly to networks.
- (k) Reference the work the Network Connections Technical Group (NCTG) is doing in terms of aggregators and possible planning at that level.
- (l) Suggestion to add more detail on the net-zero approach once the grid owner supplies this information to the Authority.

1.4 The Authority agreed to consider all of the feedback, and will update the harmonics discussion paper accordingly.

1.5 The meeting closed at approximately 11:30am.

Confirming the CQTG has approved these meeting minutes are a true and correct record.

Dated this 10th day of June 2024



Sheila Matthews

Chair