



Ref. A5003496

6 October, 2022

Mr Callan Masters
Manager, Grid Performance & Integration
Australian Energy Market Operator
GPO Box 2008
MELBOURNE VIC 3001

Dear Mr Masters,

SUBMISSION ON 2023 GENERAL POWER SYSTEM RISK REVIEW APPROACH PAPER

Powerlink Queensland welcomes the opportunity to provide input on the Australian Energy Market Operator's (AEMO's) Draft 2023 General Power System Risk Review Approach Paper (the Approach Paper).

Powerlink supports AEMO's proposed approach to apply the 2022 Integrated System Plan (ISP) Step Change scenario to assess future power system risks. The Approach Paper describes a number of inputs and assumptions that Powerlink offers the following comments for AEMO's consideration.

- Based on AEMO's 2027 studies instability across Queensland New South Wales Interconnector (QNI) has been observed following non-credible contingencies in the southern states. Powerlink agrees that further investigation is required to determine the appropriate mitigation measures. Such responses should consider load and/or generation tripping in the neighbourhood of the contingency to arrest cascading failure rather than look to implement a special protection system (SPS) within Queensland (under S5.1.8 of the NER) to maintain stability of QNI.
- Sections 4.8 and 4.9 of the Approach Paper define the types of load and DER/DPV models to be used in the assessment. The inclusion of static load models (in lieu of a composite load model) with DER/DPV models may lead to overly conservative results as no complementary load tripping (other than via voltage sensitive) will occur following the large disturbances modelled.
- Table 8 in Section 4.6 refers to Powerlink upgrading the stage 2 CQ-SQ WAMPAC scheme. As AEMO rightly identifies in Section 1.3, Powerlink is first reviewing the adequacy of WAMPAC to manage increased risks due to QNI transfer increases

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following the QNI upgrade. Therefore, the stage 2 model is not currently under development and Table 8 should align with the recommendation in Section 1.3.

Powerlink looks forward to engaging with AEMO and other stakeholders to support AEMO's delivery of the 2023 GPSRR.

If you have any questions regarding this submission or would like to meet with Powerlink to discuss this matter further, please contact Cameron McLean.

Yours sincerely,

A handwritten signature in black ink, appearing to read 'P. Ascione', with a stylized flourish at the end.

Paul Ascione

GENERAL MANAGER, ASSET STRATEGIES AND PLANNING

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