



System Strength Impact Assessment Guidelines

Minor Amendments Proposal
for the National Electricity Market

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New South Wales | Queensland | South Australia | Victoria | Australian Capital Territory | Tasmania | Western Australia

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Notice of proposal for minor rules consultation procedure

AEMO proposes to make minor amendments to the **System Strength Impact Assessment Guidelines (SSIAG)** under the National Electricity Rules (NER) 4.6.6, in accordance with the minor rules consultation procedure under NER 8.9.4.

AEMO has published, with this notice, its proposed amendments to the **SSIAG** in marked-up form, intended to take effect on 1 June 2023. All documents for this consultation will be published on AEMO's website at [SSRM and SSIAG amendments consultation](#)¹.

The reasons for making the proposed amendments are as follows:

- AEMO has identified that applying the system strength quantity (SSQ) formula as drafted in NER 6A.23.5, without adjustment, could significantly overstate the quantity of system strength required to support a relevant connection to a transmission or distribution network in the National Electricity Market (NEM).
- In the “[Calculating system strength quantities in the NEM](#)”² guidance paper, AEMO proposes a methodology for calculating the SSQ for a relevant NEM connection that, in AEMO's view, better aligns with the intended outcomes expressed in the final determination of the *National Electricity Amendment (Efficient management of system strength on the power system) Rule 2021*³. This methodology accounts for minimum system requirements for stable network operation, represented by a fixed value stability coefficient of 1.2.
- The formula for determining the reduction in available fault level (Δ AFL) caused by a connection is set out in section 3.4.2 of the SSIAG and accounts for the same coefficient. However, the first equation in that Δ AFL formula refers to ‘SSQ’, which could cause ambiguity in applying AEMO's proposed methodology for determining SSQ.
- To facilitate the application of this methodology, AEMO considers it prudent to replace the ‘SSQ’ term in order to remove any potential to interpret the formula as requiring the coefficient to be deducted twice, where a network service provider applies the SSQ methodology in AEMO's position paper.

AEMO's proposed minor amendment removes the term ‘SSQ’ and instead refers to the component elements of SSQ, as expressed in NER 6A.23.5(j). AEMO considers that the proposed amendments to the SSIAG are minor because removing the reference to SSQ does not change the effect of the Δ AFL formula.

It is noted that in parallel with this consultation, AEMO will initiate a rule change proposal with the AER to remove the SSQ formula from the NER and instead include the adjusted formula in the SSIAG.

¹ At <https://aemo.com.au/consultations/current-and-closed-consultations/ssrmiag>

² At https://aemo.com.au/-/media/files/stakeholder_consultation/consultations/nem-consultations/2022/ssrmiag/amendment/guidance---calculating-system-strength-quantities-in-the-nem.pdf

³ AEMC, Efficient management of system strength on the power system, Rule determination, 21 October 2021: <https://aemc.gov.au/rule-changes/efficient-management-system-strength-power-system>

Consultation notice

In accordance with NER 8.9.4(a)(3), AEMO invites comments on the proposed amendments from any interested person within 10 business days after publication of this notice, that is, by 5:00 pm (AEST) on 25 May 2023. Comments should be sent by email to ssiag@aemo.com.au.

Please note that all comments received will be published on AEMO's website, subject to our consultation submission guidelines⁴. AEMO is not obliged to consider comments received after the closing date.

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⁴ AEMO's consultation submission guidelines can be found at: <https://aemo.com.au/consultations/>