

YOUR REF:

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17/06/2022

Callan Masters
(Acting) Manager Grid Performance & Integration
Level 10, 580 George Street, Sydney NSW 2000

Dear Callan,

RE: Power System Frequency Risk Review 2022 Draft Report Consultation

ElectraNet welcomes the opportunity to provide this submission on the Power System Frequency Risk (PSFRR) Review 2022 Draft Report Consultation.

Wide Area Protection Scheme

ElectraNet has been working collaboratively with AEMO to develop the Wide Area Protection Scheme (WAPS), which is designed to detect multiple generator loss events and provide a proportionate response to mitigate the risk of cascading failures. The Emergency Frequency Control Scheme (EFCS) Setting Schedule for the WAPS was finalised in October 2021. ElectraNet is progressing the detailed design of the scheme and construction activities have commenced with an in-service date in early 2023.

Operation of Minimum Number of Synchronous Generator Units in South Australia

The WAPS design is based on maintaining two large synchronous generator units online in South Australia to maintain system security before Project Energy Connect (PEC) is in service. This approach is consistent with the 2018 and 2020 Integrated System Plan planning assumptions. System inertia plays a critical role in the system response in the event of multiple generator loss; hence, the effectiveness of the WAPS to provide a timely and proportionate response. ElectraNet is assisting AEMO to explore whether the minimum number of synchronous generator units in South Australia could be reduced. ElectraNet notes that additional assessment of the adequacy of the WAPS settings would be required to cater for fewer synchronous generator units, which may result in WAPS setting revisions. These settings revisions would be required prior to transitioning to operation with a lower minimum number of synchronous generators online and may delay the in-service date of the WAPS to mid-2023.

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ElectraNet appreciates the opportunity to comment on the PSFRR Draft Report. ElectraNet remains committed to working closely with AEMO to deliver the WAPS. Should you have any queries, please contact Hugo Klingenberg in the first instance on 0430 475 923.

Yours sincerely,

A handwritten signature in black ink, appearing to be the initials 'HK' or a stylized representation of the name Hugo Klingenberg.

Hugo Klingenberg
Manager Network Development