Energy Network Australia Guideline Alignment

Seeking feedback on draft standards for Connection of Embedded Generation – ENA Guideline Alignment

The new draft standards will take effect on 1 December to align with the Distributed Energy Resource (DER) Register Customer changes. We are currently seeking feedback on drafts of the following standards:

- Draft Standard for Micro EG Connections (STNW1170)
- Draft Standard for LV EG Connections (STNW1174)

Energy Networks Australia (ENA) published the National Grid Connection Guidelines this year. These guidelines target the safe, consistent and efficient connection of solar, battery and other generation technologies to the grid within Australia.

Energy Queensland has been supportive of the initiative and the effort to have national alignment. We are aiming to achieve compliance to the Guidelines as well as consider the challenges and further opportunities as we increase Distributed Energy Resource (DER) connections in Queensland.

Major Changes:

- Document structure changed to align with ENA guidelines.
- Power quality response modes alignment with industry best practice.
- Format, terminology and standards references aligning with ENA guidelines, where relevant.

The draft standards can be found at https://www.talkingenergy.com.au/egcstandards

Please feel free to provide feedback by taking the questionnaires in the above website or by emailing a written submission or any enquiries through to tech.enquiries@ergon.com.au.

Feedback for this draft review closes **Wednesday, 30 October 2019**.

Power Quality Response Mode Change

From 1 December, Queensland will be aligning with the ENA Guidelines and many other Distribution Network Service Providers (DNSP) in Australia by requiring a change to our power quality response mode settings.

All inverters regardless of the size or network type, covered by our standards STNW1170 Standard for Micro EG Connections and STNW1174 Standard for LV EG Connections will have a requirement to set the power quality response mode both to volt-var and volt-watt. This change will make knowing what settings are required easy for installers throughout Queensland and aligns with industry best practice. It will improve inverter interaction on the network and allow for higher uptake of distributed energy resources.

Grid Protection Relay Requirements Update

In STNW1174 Standard for LV EG Connections, we have removed the requirement for IEC 60255-132 "*Functional requirements for over/under power protection"* from the Standard and added an additional requirement for 60255-181:2019 *"Functional requirements for frequency protection"*.

To enable the industry a smooth transition towards demonstrating compliance to the new standard 60255-181:2019 *"Functional requirements for frequency protection"*, we propose a period of 6 months from the 1 December 2019 until 1 June 2020.

From 1 June 2020 all listed Grid Protection Relay (GPR) will need to have certified compliance with IEC 60255-181. Only listed GPRs can be used in design and installations of embedded generating systems.

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