

## Technical Rules exemption notifications: Inverter systems rated greater than 30 kVA and not greater than 1 MVA.

The combined protection functionality integral to *inverter coupled generating units* certified as complying with AS/NZS 4777 and IEC 62116 requirements enables the limits previously applying under this exemption to be revised. Together with a separate IEC 60255 compliant external generator protection relay, inverters meeting those Standards provide an acceptable level of *protection* for *inverter coupled generating units* of this size with respect to duplication of protection and earth fault protection. Accordingly, under the conditions which apply, this exemption modifies two applicable Rules requirements which would otherwise apply.

In accordance with sections 12.33 to 12.39 of the *Electricity Networks Access Code 2004* (Access Code), Western Power will automatically approve the following Technical Rules exemptions where requested by *applicants* or *Users*. The exemptions apply at the *connection point*, are granted to the *connection point* owner and remain conditional that all other applicable Rules and *connection agreement* requirements are met.

### Statement of Technical Rules exemption

“For AS/NZS 4777 compliant inverter *embedded generating units* with rated capacity greater than 30 kVA and not greater than 1 MVA connecting to the *distribution system*, and conditional that the installation cannot exceed the network or *connection point* supply capability, the following applies:

- (a) when connecting eligible inverters to the *distribution system* in combination with one IEC 60255 compliant external generator protection relay in accordance with applicable requirements of cl. 3.6.10, the installation is exempt from the requirement for duplicated *protection* to be provided at the network *connection point*; and
- (b) in addition to part (a), if the inverters:
  - i. connect to the *distribution system* with a **low voltage (LV)** network *connection point*,
  - ii. are certified compliant with the requirements of IEC 62116,
  - iii. are the sole source of embedded generation at the nominated *connection point*, and
  - iv. the external generator protection relay provides Rate of Change of Frequency (RoCoF) *protection*, with setting of 4 Hz/sec and a sampling rate of 4 cycles, at the *connection point*, then that LV installation is also exempt from cl. 3.6.10.1(g) requirements for “earth fault protection for earth faults on the distribution system”; and
- (c) *protection* functions integral to the installation must be implemented as agreed with the *Network Service Provider* (NSP). Accordingly, additional operating restrictions and any additional requirements must be specified in the relevant *connection agreement* in accordance with cl. 3.6.10.1(b), 3.1(b) and or any other Rules.”

The stated Rules exemptions commence with immediate effect and replace all previously published versions. They apply until their conditions are no longer met, or are otherwise varied or revoked under the provisions of the Access Code.