

Horizon Energy Small Scale Distribution Generation (SSDG) < 10kW Policy



Horizon[®]
Networks



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1 Introduction and Purpose

This policy has been prepared in accordance with the Electricity Industry Participation Code 2010. (the “Regulations”).the process for the connection of distributed generation is set out in Part 6 of the Code. On 23 February 2015, Part 6 will include a new Part 1A to Schedule 6.1 that provides for a simpler process for distributed generators seeking to connect SSDG. This document sets out the process and requirements for the connection of distributed generation of 10 kilowatts or less to Horizon Energy’s network under Part 1A of the Regulations and comes into effect from the 23 February 2015.

If you have any further questions related to this policy, please contact Horizon Energy on (07) 306 2900 or email distributed.generation@horizonenergy.net.nz.

2 Terms & Definitions

Term	Definition
SSDG	Small Scale Distribution Generation
Regulation	A rule or directive made and maintained by an authority

3 References

Reference	Description & Title
AS/NZS 3000	Electrical installations (known as the Australian/New Zealand Wiring Rules) sets out requirements to select and install electrical equipment, and design and test electrical installations, especially for the essential requirements for safety of persons and livestock from physical injury, fire, or electric shock.
AS/NZS 4777.2:2015	This standard specifies requirements and tests for low-voltage inverters for the injection of electric power through an electrical installation into the grid at low voltage. This Standard applies to inverters that have power flow in either direction between the energy source and the grid. This standard does not specify a size of inverter, as it is applicable to all inverters that connect to the installation at low voltage (e.g. 240/415V AC).



4 Connection Process for Small Scale Distribution Generation (SSDG) <10kW

4.1 Installation Codes and Standards

In the case of new generation, the installation of the distributed generation must be done by a registered electrician in accordance with plans and specifications that meet the relevant building and electrical codes and standards, including AS/NZS 3000 and AS/NZS 4777.2:2015

4.2 Application for Connection

You must complete the application form posted on our website for connection of distributed generation with capacity of 10 kilowatts or less. The application form, together with all information and supporting documentation specified in the application form must be accompanied by:

- The application fee of \$100 + GST; and
- A Certificate of Compliance signed by the registered electrician installing the distributed generation (in the case of new generation) or a registered licensed inspector (in all other cases) verifying that the installation complies with Horizon Energy's network requirements and connection and operation standards and is electrically safe.
- All fees are non-refundable.

Please forward the completed application form to distributed.generation@horizonenergy.net.nz or send it by post to:

Horizon Energy Distribution Ltd
Level 4
Commerce Plaza
52 Commerce Street
PO Box 281
Whakatane 3158
New Zealand

Horizon Energy will acknowledge receipt of the application within 2 business days of receiving it and will advise you whether the application is complete. An additional processing fee of \$80 + GST will be charged if there is any deficiency with application documentation.

Horizon Energy will advise you of whether the application has been approved or declined within 10 business days after date on which the application was submitted. However, provided you have not contributed to a delay in granting approval, if you do not receive a notice of approval within 10 business days of the date on which you submitted the application:

- (a) Horizon Energy is deemed to have approved the application (deemed approval);
- (b) You may connect the SSDG.

Horizon may inspect the SSDG for the purpose of verifying the information contained in the application or verify that the SSDG meets, or continues to meet the requirement

of Part 1A. Horizon Energy will provide at least two business days' notice for inspection.

In case of any deficiency in your SSDG application, Horizon Energy will notify you within 10 business days and would provide clear reasons for the decision along with the steps you must take to have the application reconsidered. If you wish to proceed with the application, you must:

- (a) remedy all deficiencies to the distributor's satisfaction within 10 business days of being notified;
- (b) not connect the SSDG unless final approval is given.

If you elect to remedy the deficiency at a later stage, you may need to submit new application. We will also ensure you are aware of the dispute resolution procedure under the Regulations.

If Horizon Energy approves your application, you must provide written notice to Horizon Energy of whether you intend to proceed with the connection and, if so, confirming the details of the generation to be connected. You have 10 business days from the date your application is approved to provide such notice. If you fail to do so within this time, our approval of your application will expire. You may request an extension of the 10 business day period.

4.3 Connection

If Horizon Energy approves your application and you notify us that you wish to proceed, we will negotiate a connection contract with you to cover the technical aspects of the connection of the distributed generation to our network. If an agreement cannot be reached within 30 business days from the date we receive notice that you wish to proceed, the regulated terms as specified in the Regulations will apply together with our Standard Terms and Conditions of Connection. The regulated terms and our Standard Terms and Conditions of Connection are posted on our website. If there is any conflict between our Standard Terms and Conditions of Connection and the regulated terms, the regulated terms prevail.

All other issues (including the billing and payment of charges) will be dealt with under your contract with the Retailer. Horizon Energy will advise the actual load line charge that will be payable in respect of the connection of any load at the distributed generation site to our network.

4.4 After Connection – Installation, Testing and Inspection

You must provide as-built information and drawings to Horizon Energy following connection of the distributed generation to our network.



You are required to carry out regular testing and inspection of your distributed generation. You must notify us at least 5 business days beforehand. We may send qualified personnel to the site to observe the testing and inspection. An inspection fee of \$60+GST may apply if Horizon Energy requires an inspection and will provide at least two business days' notice of the time and date of inspection.

You must provide Horizon Energy with a written test report after the testing and inspection is complete. The report should include suitable evidence that the metering installation complies with the metering standards in the Regulations.

Horizon Networks will require any inverter to disconnect if it detects the AC voltage exceeding 248 volts. This is a prudent level to prevent damage to household appliances which are typically rated to tolerate 230 volts $\pm 6\%$. This is not true of all appliances and some may be irreparably damaged by any voltage over that specified on the nameplate, possibly causing a fire. In some cases, a limit lower than 248 volts may be required. It is suggested that you obtain the professional advice of your equipment supplier and/or installer. Horizon Networks do not accept any liability for Quality of Supply issues for installations with an overvoltage setting above 244 volts.

5 Pricing for Small Scale Distribution Generation (SSDG)

For details of our charges please refer to our disclosed pricing methodology:

<http://www.horizonenergy.net.nz/disclosures/pricing-methodology-tariffs/>

Useful Links

Electricity Authority Guidelines for connection of SSDG to a local network

<http://www.ea.govt.nz/operations/distribution/distributed-generation/>

Transpower

<http://www.transpower.co.nz/?id=184>



6 Amendment Record

Page No.	Context	Date
All	Initial Release	27/01/2015
Page 3	Section 2 Terms & Definitions added, Section 3 Reference Table added.	24/3/2015
Page 4,5,6	Updated application timeframes	20/05/2015
Page 3,4	Replaced AS 4777 with AS/NZS4777.2:2015	28/9/2016
Page 4	Fee details updated Section 4.2	12/10/2017
Page 5-6	Section 4.4 After Connection – Installation, Testing and Inspection. Last paragraph inserted	12/10/2017