TasNetworks
Delivering your power

Micro Embedded generation

Application for new connection and supply of an embedded generator (incl. solar, wind & micro-hydro)

Please print and complete relevant sections of this form and return to:

Post: TasNetworks Pty Ltd
Market & Connections Team
PO Box 606
Moonah Tas 7250

Phone: 1300 137 008
Email: newsupply.applications@tasnetworks.com.au

Declaration

By completing this form you are agreeing to the details enclosed and accept liability for any costs incurred on this account. You are also agreeing to the terms and conditions of two TasNetworks contracts.

1. Connection services – terms and conditions governing the connection of your embedded generator to TasNetworks' distribution network, and

2. Supply services – terms and conditions suitable for embedded generation.

Part 1 – Residential Customer details

Title | Customer's full name

Street address

Suburb | Postcode

Postal address (if different)

Suburb | Postcode

Contact phone | Mobile

Contact email

Business Customer details

Business name | ABN

Contact name

Street address

Suburb | Postcode

Postal address (if different)

Suburb | Postcode

Contact phone | Mobile

Contact email

Part 2 – Location of connection

Street address

Suburb Postcode

National Meter Identifier (NMI) if known

Type of premises: Domestic/Residential Commercial/Business Industrial Rural production Council Other

Retailer

Part 3 – Connection details

Connection type

Embedded generation Wind Hydro Solar Other

B6 Modify existing connection – micro embedded generation **single phase** New connection with B6 B6 upgrade Date of upgrade

B7 modify existing connection – micro embedded generation **multi-phase** New connection with B7 B7 upgrade Date of upgrade

Please refer to the Requirments for Connecting Micro Embedded Generating Systems to the TasNetworks Distribution Network which is contained in the Information Pack for Micro Embedded Generators on the TasNetworks website at https://www.tasnetworks.com.au/our-network/new-connections-and-alterations/connecting-micro-embedded-generators-information-p/

Part 4 – Description of connection request and generator operation

(ie designed to reduce/offset customer consumption or dedicated generation connection).

Estimated commissioning date(s)

Other information such as amount and timing of power required during construction or any auxiliary power requirements

Part 5 – Detailed site information - new electricity connections

Distance from TasNetworks' existing electricity supply to proposed connection metres. Pole Identification No.

How much of this distance is on:

Your Property Metres Public Road Metres Neighbours Property Metres

Underground Metres Overheard Metres

Description of likely route of line and possible obstructions

No trees Some trees Heavily treed Flat Undulating Hilly

Water Rock Railway Highway Buildings Transmission Tower/Line

If new line is to cross a neighbour's property, are they likely to grant an easement? Yes No If no please provide other details

Diagram attached Yes No

Have you discussed the easement with your neighbour? Yes No

Proposed maximum demand amps

Part 5b – Detailed site information – existing electricity connections

My existing electricity connection is:

Underground | Length of your underground mains | Private mains size

Overhead | Pole Identification No. | Length of your overhead service wire

Existing maximum demand amps

Part 6 – Generator Details

Generator type Photovoltaic (solar)

Number of modules | Manufacturer

Rated output (watts per module)

Number of inverters

Inverter Manufacturer

Inverter model no | Inverter rating kW

Inverter rating kVA

Does the inverter operate at REACTIVE power factor 0.9 LAGGING OR UNDER-EXCITED? Yes | No

Inverter phase/s Single phase | 3 phase

AS4777.2:2015 Grid C Connection of Energy Systems via Inverters Certificate Number

<u>All embedded generators:</u>

-10kW and over connecting to LV supply must use a 3 phase inverter

-Under high risk of generating over-voltages (as advised by TasNetworks) should connect to the LV supply using a 3 phase connection

Wind Turbine | Gas Turbine | Diesel | Water turbine

Other (please describe)

Number of modules | Manufacturer

Rated output (watts per module) | Connection and protective equipment incorporated yes | No

Inverter Manufacturer

Inverter model no | Inverter rating kW

Inverter phase/s Single phase | 3 phase | Inverter rating kVA

Number of inverters

AS4777.2:2015 Grid Connection of Energy Systems via Inverters Certificate Number

Provide generator machine type details i.e. induction, synchronous, etc.

Preferred site location, listing any alternatives in order of preference

Maximum power generation and / or demand of whole plant

Maximum kW and / or kVA, or average over 15 minutes or similar

Expected energy production or consumption in kWh per month

Nature of any disturbing load – size of disturbing component kW/kVAr Duty cycle

Nature of power electronic plant which may produce harmonic distortion

All embedded generators:

-10kW and over connecting to LV supply must use a 3 phase inverter

-Under high risk of generating over-voltages (as advised by TasNetworks) should connect to the LV supply using a 3 phase connection

Part 6b – Energy Storage (battery) Details

Will the embedded generation system incorporate battery storage? Yes No

If Yes, please provide the following details:

Battery manufacturer:

Battery nameplate rating information:

Total energy storage output: kWh or Ah

Will you have communications installed Yes No

Other (please describe)

Please provide a single line diagram of the proposed embedded generation and battery installation.

Part 7 – Connection equipment

The generator system owner/s shall install all equipment in accordance with all relevant Australian standards and as outlined in the system details. All equipment shall be operated in a safe and reliable manner.

The generator system owner/s shall inform TasNetworks about any changes in the system details provided in the application.

Each party shall be responsible for the operation and maintenance of the equipment owned by it and must maintain such equipment in accordance with good electricity industry practice (as defined in the Tasmanian Electricity Code and Australian Standards).

The parties shall comply with all instructions, directions or powers of the System Controller (as defined in the Tasmanian Electricity Code) in relation to all connection equipment.

Part 8 – Electrical contractor details

Contact name of electrical contractor (if applicable)

Business name of contractor ABN

Postal address

Suburb Postcode

Contact phone Mobile

Contact email

Installer Details

Contact name of solar installer

Business name of installer | ABN

Postal address

Suburb | Postcode

Contact phone | Mobile

Contact email

Part 9 – Customer signature or agent authority

Customer/Signature | Date

Applicant Signature (other than customer) | Date

Full name and title

Additional Information:

Attachment – single line diagram of generator system

Example single line diagram: single phase 5kW solar PV array SLD