



Customer's Obligations

Small Inverter Based Systems

(up to 10kVA per phase)

Jemena Electricity Networks (Vic) Ltd

INTRODUCTION

This document details the customer's obligations in respect of the grid connection of a small generator such as a photovoltaic system (PVS) or any other embedded generator via an Inverter energy system with ratings up to 10kVA per phase ("Inverter Installation") to the Jemena Electricity Networks (Vic) Ltd ("JEN").

It is recommended you read this document through with your solar installer and registered electrical contractor (REC) to understand your obligations. Please arrange for your solar installer and REC to complete and sign the relevant sections of the attached Schedule 1 Form, then return the original signed form, including your personal details (name, address, phone contacts, etc.) with your signature to New Connections (refer to the Notices section).

OBLIGATIONS

Compliance

You and your Agent must ensure your Inverter Installation complies with the relevant requirements of the following Standards, Code and Regulations:

- Victorian Electricity Supply Industry (VESI) Service & Installation Rules 2005 (SIR);
- Electricity Distribution Code;
- Australian Standards and in particular, requirements of the Wiring Rules AS 3000;
- AS 4777
 - Part 1 "Grid Connection of Energy Systems via Inverters, Installation Requirements"
 - Part 2 "Grid Connection of Energy Systems via Inverters, Inverter Requirements"
 - Part 3 "Grid Protection Requirements"; and
- Electricity Safety Act 1998 and the associated Safety Regulations.

Customer Obligations

You must understand the installation and how to maintain and operate the electrical equipment at your Inverter Installation so as not to cause, or be likely to cause any damage or loss to the JEN or any Third Party, and only allow appropriately qualified people to perform work on your Inverter Installation. In addition to this, you must ensure that:

- Your generator Installed Capacity does not exceed 10kVA per phase.
- The operation of the installation does not compromise the safe operation of the JEN under normal or abnormal conditions and does not interfere with the continuity or quality of the electricity supply provided by JEN.
- Prior to the initial connection your Inverter must have a Certificate of Electrical Safety (CES) that ensures your Inverter Installation has been inspected by an appropriately trained licensed electrical inspector and is compliant with the Electricity Safety Act and associated safety Regulations.
- You must notify JEN of any major modifications to your existing generator e.g. installation of additional solar panels or replacement of the Inverter with a different size or type. (Refer to Notices section below.)

Distributors Right to disconnect your Inverter Installation

JEN may disconnect your Inverter Installation from the JEN, or instruct you to do so, in any circumstance in which JEN is entitled or obliged to interrupt the supply of electricity. You must promptly comply with any instruction given by JEN or its authorised representative.

Notices

If you have any enquires in relations to your Obligations or if you have any questions, please direct your correspondence to one of the contacts below. .

New Connections
Jemena Asset Management Pty Ltd
Locked Bag 7000
Mount Waverley Vic 3149

Fax: 9351 2223

Ph: 1300 131 871

Email: new.connections@jemena.com.au

Definitions

Capitalised terms used in this document are described in Schedule 2.

Schedule 1 - Installation and Technical Specification

This schedule must be returned to New Connections prior to metering installation.

Customer Details *(to be completed and signed by the customer)*

Customer Name and ABN		
Customer NMI		
Address of Inverter Installation		
Customer Mailing Address		
Phone Number	Business Hours:	After Hours:
Email Address		
Fax Number		

Customer Name: _____ Customer Signature: _____ Date: _____

Installation Details *(to be completed and signed by the installer)*

Installation Company Name		
Contact Name		
Installation Company Address		
Installation Company Phone Number		
Fuel Source (e.g. solar, wind, micro generation, etc.)		
Inverter Make/Model		
Inverter Rating (kVA)		
INVERTER INSTALLED CAPACITY		
Inverter – Number of Phases	<input type="checkbox"/> Single phase 240V <input type="checkbox"/> Two phase 240/415V	<input type="checkbox"/> Three phase 415V <input type="checkbox"/> Two phase 240/480V
Metering Configuration	<input type="checkbox"/> GROSS INTERVAL METER	<input type="checkbox"/> NETT INTERVAL METER
Load – Number of Phases	<input type="checkbox"/> Single phase 240V <input type="checkbox"/> Two phase 240/415V	<input type="checkbox"/> Three phase 415V <input type="checkbox"/> Two phase 240/480V

Please refer to the JEN website, www.jemena.com.au, for diagrams of approved metering configurations.

Installer Name: _____ Installer Signature: _____ Date: _____

Connection Compliance *(to be completed and signed by the Registered Electrical Contractor)*

If the answer is "NO" to any of the following checklist items, connection to the UED network will be refused.

Inverter complies with AS4777?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Inverter connected to a dedicated circuit complete with lockable isolating switch?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Labelling of main switchboard?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Labelling of isolating fuse/switch/circuit breaker?	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Certificate of Electrical Safety – Prescribed (CES)?	<input type="checkbox"/> Yes	<input type="checkbox"/> No

REC Name: _____ REC Signature: _____ Date: _____

Schedule 2

Definitions

JEN	Jemena Electricity Networks (Vic) Ltd (The Distributor)
INVERTER	An electronic device that converts direct current (DC) into alternating current (AC). Inverters compliant with AS4777 are specifically designed to convert energy produced from a DC source (such as a photovoltaic array) into AC and to inject this power into the distribution network.
kVA	Kilovolt Amps
INVERTER INSTALLED CAPACITY	Exported power (kW) to the JEN network at any time. (Sum of all installed solar panel ratings).
NMI	National Meter Identifier – it is a unique supply point Id located on the back of your retail bill.
NETT INTERVAL METERING	An energy metering configuration that measures the energy flow between the distribution network and the customer's installation every 30 minutes of every day. Energy produced by the generator and consumed by customer load is combined. It is not possible to measure generator output independently. Measures energy imported from the JEN network and exported from the JEN network but reports the net value of both.
GROSS INTERVAL METERING	An energy metering configuration that measures the energy flow between the distribution network and the customer load and between the distribution network and the customer's generator independently every 30 minutes of every day. Measures and reports energy imported from the JEN network and exported from the JEN network separately.
THIRD PARTY	Persons other than JEN or the Customer.
CES	Certificate of Electrical Safety
AGENT	Inverter installer and Registered Electrical Contractor