

# Major Customer Connections



## Application Form Embedded Generation > 30 kW to 5 MW

AUGUST 2018

### Privacy Notice

Ergon Energy is collecting information (including personal information) on this form for the purpose of assessing your connection application. Your personal information will not be disclosed to any external third parties without your consent, unless authorised or required by law. If you wish to apply for access to this information, or make a privacy complaint, you may contact the Privacy Officer on 13 10 46 or [privacy@ergon.com.au](mailto:privacy@ergon.com.au). Ergon Energy's privacy policy may be viewed at [ergon.com.au](http://ergon.com.au). If you have provided personal information of another individual, please ensure that you advise that person about this privacy statement.

**APPLICATION TO CONNECT - MAJOR CUSTOMER NEGOTIATED  
EMBEDDED GENERATOR CONNECTION > 30 kW to 5,000 kW**



A **Major Customer Embedded Generator Connection** is where embedded generation above 30 kW will be connected to Ergon Energy’s network.

This form may be used for submitting a formal connection application to establish or modify a Major Customer connection.

When completed, please email this Application Form to [majorconnections@ergon.com.au](mailto:majorconnections@ergon.com.au)

SECTION 1 - Customer / Consultant Information	
CUSTOMER (ENTITY) DETAILS	
NAME:	
ABN:	ACN:
EMAIL: <small>(Ergon Energy will use this email as the preferred method of contact unless otherwise specified)</small>	WEBSITE:
POSTAL ADDRESS:	PHYSICAL ADDRESS:
PHONE NUMBER:	OTHER INFO: <small>(e.g. joint venture, manager / agent arrangements/authority)</small>
<p>The applicant listed above acknowledges and agrees that Ergon Energy may concurrently process competing connection applications, which may impact on the physical, technical or financial arrangements required to connect the applicant’s project to Ergon Energy’s network.</p> <p>To facilitate transparency and assist other applicants, the applicant listed above agrees that Ergon Energy may disclose the applicant’s: capacity requirements, general project location, and relevant submission dates in the connection process to third parties. If the applicant does not consent to this disclosure, please tick this box: <input type="checkbox"/></p> <p>The applicant listed above also acknowledges and agrees that information submitted as part of this Major Customer Connection Application Form may be released to contractors, sub-contractors or consultants of Ergon Energy (subject to confidentiality requirements) for the purposes of managing the connection application on Ergon Energy’s behalf, and submission of this Application Form is deemed to be consent to such release.</p> <p>This Major Customer Connection Application Form is hereby submitted to Ergon Energy by an authorised representative of the applicant listed above.</p>	
_____	_____
Signed	Position
_____	_____
	Date

<b>CUSTOMER (ENTITY) REPRESENTATIVE DETAILS</b>	
<small>(please note that you may also nominate an authorised agent on page 3)</small>	
NAME:	EMAIL:
POSTAL ADDRESS:	PHONE NUMBER:
<b>CONSULTANT DETAILS</b>	
COMPANY OR BUSINESS (TRADING) NAME: <small>(as per ASIC registration, ABN registration, as relevant)</small>	
ABN:	ACN:
CONTACT NAME:	
EMAIL: <small>(Ergon Energy will use this email as the preferred method of contact unless otherwise specified)</small>	
WEBSITE:	
POSTAL ADDRESS:	PHYSICAL ADDRESS:
PHONE NUMBER:	MOBILE NUMBER:
<b>AUTHORISED AGENT</b>	
<small>(If you complete this section and nominate an authorised agent, we will only transact with this agent and not the (or any) business (entity) representative listed above)</small>	
As Ergon Energy will only transact with an agent that has been appropriately authorised, please arrange for the applicant to sign section 1 <b>and</b> this section to grant authority for the consultant to act on their behalf.	
I/We _____ authorise _____ to act	
on our behalf in relation to this proposed project. Any information or advice provided by my/our authorised agent may be relied upon by Ergon Energy as if it were information or advice provided by the entity listed in Section 1.	
_____ Signed	_____ Position
_____ Date	

**SECTION 2 - PAYMENT DETAILS**

**INVOICING**

CUSTOMER ADDRESS  
(As per Section 1)

CONSULTANT ADDRESS  
(As above)

OTHER ADDRESS  
(As detailed below)

COMPANY NAME	ABN/ACN
POSTAL ADDRESS	PHONE NUMBER
EMAIL ADDRESS	WEBSITE

**SECTION 3 – Details of your proposed embedded generation project**

*General information regarding your proposed Embedded Generation system*

**PROJECT & SITE DETAILS**

<p><b>PROJECT / GENERATOR DESCRIPTION</b> <small>(Please provide a qualitative description of the objectives /purpose of the project)</small></p>	<p><b>NATIONAL METERING IDENTIFIER (NMI)</b></p>
<p><b>SITE ADDRESS INC GPS:</b> <small>(Please provide Google Earth Pin attachment, files or spatial data may also be sufficient)</small></p>	<p><b>LATITUDE:</b></p> <p><b>LONGITUDE:</b></p>
<p><b>REGISTERED PLAN NUMBER AND/OR LEASE NUMBER:</b></p>	<p><b>REGISTERED OWNER OF THE SITE:</b></p>

**DETAILS OF DISTURBING LOADS**

(For example: large motors, welders, thyristor drives, furnaces, VSD etc)

<p>Load Type:</p> <p>Component Size:                      kVA</p> <p>Duty Cycle:                              starts/hr or day</p>
<p>Load Type:</p> <p>Component Size:                      kVA</p> <p>Duty Cycle:                              starts/hr or day</p>

**ADDITIONAL INFORMATION** (As relevant to the proposed plant / generating system)

<p><b>ANTICIPATED POWER FACTOR</b></p>	<p><b>POWER FACTOR CORRECTION TO BE INSTALLED?</b></p> <p><input type="checkbox"/> YES    <input type="checkbox"/> NO</p>
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<b>EXISTING GENERATION ON SITE</b>	
IS THERE EXISTING GENERATION ON THE SITE? <input type="checkbox"/> YES (Please complete details below) <input type="checkbox"/> NO (Please continue to next section)	
<b>EXISTING EG CONFIGURATION:</b> <input type="checkbox"/> Non-Export    Capacity (kW)_____	<b>EXISTING TECHNOLOGY ONSITE:</b> <input type="checkbox"/> Via IES (e.g. Solar PV)
<input type="checkbox"/> Partial Export    Capacity (kW)_____	<input type="checkbox"/> Via Rotating Machine (e.g. diesel generator)
<input type="checkbox"/> Full Export    Capacity (kW)_____	<input type="checkbox"/> Battery Storage on site
<b>CURRENT EXISTING EG CAPACITY:</b> _____ kW	<b>TOTAL AUTHORISED (CONTRACTED) SIZE OF EXISTING UNIT:</b> _____ kW
<b>TOTAL CONNECTION POINT CAPACITY REQUESTED</b> (including <b>all</b> generation, both existing and proposed): _____ kW	

**SECTION 3 – Details of your proposed embedded generation project**

**AUSTRALIAN ENERGY MARKET – REGISTRATION CATEGORIES**

Please tick any relevant categories

For more information on registration requirements, please refer to [www.aemo.com.au](http://www.aemo.com.au)

Please advise your intentions / requirements (if known at this time) for AEMO Registration:

- Exempt from Registration with AEMO  
(Typically all EG Systems less than 5 MW)
- Intending to apply for an *exemption* for registration with AEMO
- Intending to apply for Registration with AEMO
- Registered / or have applied for registration with AEMO

Please advise your intentions if known at this time) for AEMO Participant Categories:

- Market (or intending to register as a market generator)
- Non-Market (or intending to register as a non-market generator)
- Non-Scheduled
- Semi-Scheduled
- Scheduled

**EMBEDDED GENERATION VIA AN INVERTER ENERGY SYSTEM (IES)**

*If you are only connecting an embedded generation unit via rotating machine (such as diesel), please disregard this section.*

**IES GENERATOR PLANT DETAILS**

<p>PROPOSED CONFIGURATION:</p> <p><input type="checkbox"/> Non-Exporting</p> <p><input type="checkbox"/> Partial Exporting</p> <p><input type="checkbox"/> Exporting</p>	<p>TYPE OF METERING REQUIRED:</p> <p><input type="checkbox"/> Low Voltage (LV)      <input type="checkbox"/> High Voltage (HV)</p> <p>INVERTER BRAND AND MODEL</p>
<p>COMBINED OUTPUT CAPACITY OF INVERTERS (kW)</p>	<p>PROPOSED ENERGY PRODUCTION</p> <p>_____ kWh per annum</p>
<p>INVERTER COMPLIANT TO IEC62116:2014?</p> <p><input type="checkbox"/> YES    <input type="checkbox"/> NO</p> <p><small>Note that installations with inverters that are not compliant may require installation of other equipment. (IEC 62116:2014 provides a test procedure to evaluate the performance of islanding prevention measures used with utility-interconnected PV systems. This standard describes a guideline for testing the performance of automatic islanding prevention measures installed in or with single or multi-phase utility interactive PV inverters connected to the distribution network.)</small></p>	<p>DETAILS OF PROTECTION DEVICE(S) IF INVERTER <b>NOT</b> COMPLIANT TO IEC62116:2014</p> <p><small>NOTE THAT THE PROTECTION DEVICE(S) MUST BE COMPLIANT WITH IEC60255</small></p>
<p>ESTIMATED (REQUESTED) COMMISSIONING DATE:</p>	<p>POWER GENERATION / OUTPUT</p> <p>Maximum Capability _____ kW</p> <p>Continuous capability _____ kW</p>
<p>PROPOSED BATTERY STORAGE AND CAPACITY</p> <p>Power _____ kW</p> <p>Energy _____ kWh</p>	<p>DETAILS OF BATTERY</p> <p>Manufacturer _____</p> <p>Model _____</p> <p>Year of Manufacture _____</p>



**EMBEDDED GENERATION VIA A ROTATING MACHINE**

*If you are only connecting an embedded generation unit via IES (such Solar PV), please disregard this section.*

**GENERATOR PLANT DETAILS**

**GENERATING UNIT DESCRIPTION (i.e. type, make, model)**

(Please attach relevant product data sheets)

**DETAILS OF PROTECTION SYSTEM**

(i.e. model, compliance details of components of the protection system – to compliment the SLD provided.)

**PROPOSED ENERGY PRODUCTION**

(estimated energy production kW per annum)

\_\_\_\_\_ kWh per annum

**PROPOSED OUTPUT CAPACITY OF RM  
GENERATING UNIT**

**PROPOSED MAXIMUM RATING OF ALL  
COMBINED RM GENERATING UNITS**

\_\_\_\_\_ kW

**OPERATING HOURS (i.e. 24hrs / 7 Days per week operation)**

**ESTIMATED (REQUESTED)  
COMMISSIONING DATE:**

**GENERATOR OPERATING TYPE**

(please see Ergon Energy's relevant connection standard for descriptions of each operating type)

Bumpless     Standby     Continuous

**TYPE OF METERING REQUIRED**

High Voltage     Low Voltage

Further technical details may be requested after initial assessment.

## **SECTION 5 – Information to be submitted with this form**

*Mandatory documents listed below must be submitted with this enquiry*

### **MAJOR CUSTOMER TECHNICAL ASSESSMENT OR VALID PLANNING REPORT**

You must provide valid technical assessment planning studies via a valid Technical Assessment or Planning Report, dependent on your proposed generating system's requirements.

If the document(s) are not submitted with this Application to Connect, you will be advised that your Application to Connect is incomplete (from a material perspective) and you will be quoted a fee for the service and provision of this information.

Any failure to provide this information with this Application to Connect will result in your Application to Connect not being processed until we receive all information required (and only then will the Application to Connect be considered to be complete).

Please be aware that Ergon Energy may request additional information to assist with the assessment of your individual connection.

Should you have any concerns with providing the requested information, please contact the Major Customer Group via [majorconnections@ergon.com.au](mailto:majorconnections@ergon.com.au)

### **SUPPORTING TECHNICAL DOCUMENTS**

The documents listed in Items 1 to 5 below must also be submitted with this Application to Connect.

1. Product/Technical Specification Sheet for any existing or proposed:
  - ❖ inverters on site, clearly showing compliance with IEC62116 and AS4777.2.2015; **and/or**
  - ❖ rotating machines on site;
2. Product/Technical Specification Sheet for any existing or proposed protection devices, clearly displaying compliance with IEC 60255 Series (where applicable);
3. Product/Technical Specification Sheet for any existing or proposed battery storage systems;
4. Detailed Electrical Single Line Diagram clearly displaying:
  - ❖ the appropriate Inverter and Grid Protection Device settings in accordance with our Standards; and
  - ❖ the Cable types and sizes with approximate distances from:
    - Transformer to the Main Switch Board
    - Main Switch Board to the Solar Distribution Boards
    - Solar Distribution Boards to the Inverters;
5. Site Plan showing the precise location of any current or proposed embedded generation and any battery storage systems e.g.: Google Earth snapshot.

The above technical specification documents are also used to confirm that system elements are compliant to with relevant industry codes and specifications.

For further information about the technical requirements for connecting an embedded generator > 30 kW, please refer to the following technical standards:

#### **For EG > 30 kW to 1500 kW (LV)**

[Standards for Connection of Embedded Generation Systems \(30 kW to 1500 kW\) to a Distributors LV Network, STNW1174](#)

#### **HV Standard**

[https://www.ergon.com.au/\\_data/assets/pdf\\_file/0007/671830/STNW1175-Connection-of-EG-Systems-to-an-HV-Network.pdf](https://www.ergon.com.au/_data/assets/pdf_file/0007/671830/STNW1175-Connection-of-EG-Systems-to-an-HV-Network.pdf)