

Major Customer Connections



Preliminary Enquiry Form Embedded Generation > 30 kW

MARCH 2018

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**PRELIMINARY ENQUIRY FORM - MAJOR CUSTOMER
NEGOTIATED EMBEDDED GENERATOR CONNECTION > 30 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 enquiry, or to request more information about establishing or modifying a Major Customer connection.

When completed, please email this Enquiry Form to
majorconnections@ergon.com.au

SECTION 1 - Customer Information	
CUSTOMER (ENTITY) DETAILS	
NAME:	
ABN:	ACN:
EMAIL ADDRESS: <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 enquiries, 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 applicants, the applicant listed above agrees that Ergon Energy may disclose to third parties the applicant's: capacity requirements, general project location, and relevant submission dates in the connection process. 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 Enquiry Form may be released to contractors, sub-contractors or consultants of Ergon Energy (subject to confidentiality requirements) in order to manage the Enquiry on Ergon Energy's behalf, and submission of this Enquiry Form is deemed to be consent to such release.</p> <p>This Major Customer Connection Enquiry Form is hereby submitted to Ergon Energy by an authorised representative of the applicant listed above.</p>	
Signed _____	Position _____ Date _____

CUSTOMER (ENTITY) REPRESENTATIVE DETAILS

(please note that you may also nominate an authorised agent on page 1)

NAME:	EMAIL ADDRESS:
POSTAL ADDRESS:	PHONE NUMBER:

CONSULTANT DETAILS

COMPANY OR BUSINESS (TRADING) NAME

(as per ASIC registration, ABN registration, as relevant)

ABN:	ACN:
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CONTACT NAME:

EMAIL ADDRESS:

(Ergon Energy will use this email as the preferred method of contact unless otherwise specified)

WEBSITE:

POSTAL ADDRESS:	PHYSICAL ADDRESS:
PHONE NUMBER:	MOBILE NUMBER:

AUTHORISED AGENT

(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 on page 1)

As Ergon Energy will only transact with an agent that has been appropriately authorised, please arrange for the applicant to sign section 1 **and** this section to grant authority for your 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 - Details of your Preliminary Enquiry

Please complete the relevant details below to enable us to process your request efficiently and in accordance with any relevant provisions of the National Electricity Rules (NER). Further detail on the relevant connection processes associated with EG systems can be found in Ergon Energy Network's Embedded Generator Information Pack.

<input type="checkbox"/>	<p>I / we request general information in relation to a negotiated Major Customer Embedded Generation connection.</p>	<p>By selecting this service, you are requesting general process information regarding the establishment or alteration of a Major Customer connection.</p> <p>A Major Customer Group representative will contact you to discuss your requirements within 5 business days of receiving this form.</p> <p><i>Please note there is no charge for this service.</i></p>
<input type="checkbox"/>	<p>I/we wish to submit a request for site-specific connection advice about a proposed Major Customer Embedded Generator connection</p>	<p><i>Please note that a fee will apply to this service.</i></p>
<input type="checkbox"/>	<p>I/we wish to submit a preliminary enquiry in respect of an embedded generator that is > 30 kW and < 5,000 kW</p>	<p>A preliminary enquiry under rule 5A.D.2 of the NER allows you to get certain information so that you can make an informed connection application.</p> <p><i>Please note there is no charge for this service.</i></p>
<input type="checkbox"/>	<p>I/we wish to make an enquiry in respect of an embedded generator > 5,000 kW to obtain a Preliminary Enquiry Response (PER).</p>	<p>A preliminary response to enquiry under rule 5.3A.7 of the NER gives you certain preliminary information before moving to obtain a detailed response to enquiry.</p> <p>Note that a generator > 200 kW to 5 MW may apply for this service if they wish to be processed under PART B of Ergon Energy Network's Embedded Generator Information Pack.</p> <p><i>Please note there is no charge for this service.</i></p>
<input type="checkbox"/>	<p>I/we wish to make an enquiry in respect of an embedded generator > 5,000 kW but bypass the PER and proceed directly to a Detailed Enquiry Response (DER).</p>	<p>Within 5 business days of receiving this request, we must advise you if we agree to bypass the PER.</p> <p>If we agree to go straight to the DER, we will advise what further detail may be required to proceed.</p> <p><i>Please note that if your request is approved, a fee for the provision of a DER is applicable.</i></p>
<input type="checkbox"/>	<p>I/we have received a PER and now request to proceed to a DER</p>	<p>A Major Customer Group representative will contact you to discuss your requirements and provide you with a quote within 5 business days of receiving this form.</p> <p><i>Please note that a fee will apply to this service.</i></p>

SECTION 3 – Details of your proposed embedded generation project

General information regarding your proposed Embedded Generation system

PROJECT & SITE DETAILS

PROJECT / GENERATOR DESCRIPTION <small>(Please provide a qualitative description of the objectives/purpose of the proposed project and relevant estimated commission dates)</small>	NATIONAL METERING IDENTIFIER (NMI):
	LATITUDE:
SITE ADDRESS INCL. GPS: <small>(Please provide Google Earth Pin attachment; files or spatial data may also be sufficient)</small>	LONGITUDE:
	ANTICIPATED CONNECTION DATE:
REGISTERED PLAN NUMBER AND/OR LEASE NUMBER:	REGISTERED OWNER OF THE SITE:

EXISTING GENERATION ON SITE

IS THERE EXISTING GENERATION ON THE SITE?

YES (Please complete details below)
 NO (Please continue to next section)

EXISTING EG CONFIGURATION: <input type="checkbox"/> Non-export Capacity (kW)____ <input type="checkbox"/> Partial-export Capacity (kW)____ <input type="checkbox"/> Full export Capacity (kW)____	EXISTING TECHNOLOGY ONSITE: <input type="checkbox"/> Via IES (e.g. Solar PV) <input type="checkbox"/> Via Rotating Machine (e.g. diesel generator) <input type="checkbox"/> Battery Storage on site
CURRENT EXISTING EG RATED CAPACITY: _____ kW	TOTAL AUTHORISED (CONTRACTED) SIZE OF EXISTING EG SYSTEM: _____ kW

TOTAL CONNECTION POINT CAPACITY REQUESTED

(including **all** generation, both existing and proposed): _____ kW

DETAILS OF DISTURBING LOADS	
Additional information including nature of power electronic plant which may produce harmonic distortion e.g. harmonics, large motors, welders, thyristor drives, draglines).	
Load Type:	
Component Size:	kVA
Duty Cycle:	starts/hr or day
Load Type:	
Component Size:	kVA
Duty Cycle:	starts/hr or day
ADDITIONAL INFORMATION <small>(As relevant to the proposed plant / generating system)</small>	
ANTICIPATED POWER FACTOR	POWER FACTOR CORRECTION TO BE INSTALLED? <input type="checkbox"/> YES <input type="checkbox"/> NO

SECTION 3 – Details of your proposed embedded generation project

AUSTRALIAN ENERGY MARKET – REGISTRATION CATEGORIES

<p>For more information on registration requirements, please refer to www.aemo.com.au</p> <p>Please advise your intentions / requirements (if known at this time) for AEMO Registration:</p> <p><input type="checkbox"/> Automatically exempt from registration <small>(Typically all EG Systems less than 5 MW)</small></p> <p><input type="checkbox"/> Intending to apply for a specific exemption</p> <p><input type="checkbox"/> Intending to register with AEMO <small>(typically < 5 MW)</small></p> <p><input type="checkbox"/> Have registered or applied for registration</p>	<p>Please advise your intentions (if known at this time) for registration classifications:</p> <p><input type="checkbox"/> Market</p> <p><input type="checkbox"/> Non-Market</p> <p><input type="checkbox"/> Non-Scheduled</p> <p><input type="checkbox"/> Semi-Scheduled</p> <p><input type="checkbox"/> Scheduled</p>
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EMBEDDED GENERATION VIA AN INVERTER ENERGY SYSTEM (IES)

If you are 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-export</p> <p><input type="checkbox"/> Partial-export</p> <p><input type="checkbox"/> Full export</p>	<p>TYPE OF CONNECTION REQUIRED:</p> <p><input type="checkbox"/> Low Voltage (LV) <input type="checkbox"/> High Voltage (HV)</p> <hr/> <p>INVERTER BRAND AND MODEL</p>
<p>BATTERY STORAGE?</p> <p><input type="checkbox"/> YES <input type="checkbox"/> NO Capacity _____(kW)</p>	<p>COMBINED OUTPUT CAPACITY OF INVERTERS (kW)</p>
<p>INVERTER COMPLIANT WITH IEC 62116:2014?</p> <p style="text-align: center;"><input type="checkbox"/> YES <input type="checkbox"/> NO</p> <p><small>Note that installations with inverters that are not compliant may require the 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 NOT COMPLIANT WITH IEC 62116:2014</p> <p><small>NOTE THAT THE PROTECTION DEVICE(S) MUST BE COMPLIANT WITH IEC 60255</small></p>
<p>PROPOSED ENERGY PRODUCTION</p> <p>_____ kWh per annum</p>	<p>PROPOSED POWER LIMIT</p> <p>_____ kW</p>
<p>PROPOSED MAXIMUM RATING OF ALL COMBINED IES GENERATING UNITS</p> <p>_____ kW</p>	<p>PROPOSED POWER LIMIT</p> <p>_____ kW</p>

EMBEDDED GENERATION VIA A ROTATING MACHINE

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

GENERATOR PLANT DETAILS

GENERATING UNIT DESCRIPTION (i.e. technology 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 complement 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)

GENERATOR OPERATING TYPE
(please see Ergon Energy's relevant Technical Connection Standard for descriptions of each operating type)

Bumpless Standby Continuous

TYPE OF CONNECTION REQUIRED

High Voltage Low Voltage

SECTION 4 – Information to be submitted with this form

Mandatory documents listed below must be submitted with this enquiry

Embedded Generation > 30 kW via IES or Rotating Machine

The documents listed in Items 1 to 5 below must be submitted with this Enquiry.

1. Product/Technical Specification Sheet for:
 - ❖ Any existing or proposed inverters on site, clearly showing compliance with IEC 62116 and AS 4777.2.2015; **and/or**
 - ❖ Any existing or proposed rotating device on site;
2. Product/Technical Specification Sheet for any existing or proposed protection devices on site, clearly displaying compliance with IEC60255 Series (where applicable);
3. Product/Technical Specification Sheet for any existing or proposed battery storage systems on site;
4. Detailed Electrical Single Line Diagram clearly displaying the appropriate Inverter and Grid Protection Device settings in accordance with our Standards; and
5. Site Plan showing the precise location of any current and proposed the 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 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 1,500 kW (LV)

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

For EG > 30 kW to 5 MW (HV)

[Standards for Connection of Embedded Generators, STNW1175](#)

For EG > 5 MW

[Customer Standard for Embedded Generation \(5 MW and above\), STNW1175](#)