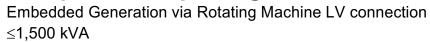




Certification	
Ergon Energy WR#:	
Date: / /	
Embedded Generation via RM > 30 kVA and ≤ 1,500 kVA – Project Name: Location: NMI:	
I certify that as a Registered Professional Engineer of Queensland and by virtu that the submission documentation complies with the requirements of the late	
<ul> <li>Ergon Energy's Technical Study Report provided for the above state</li> <li>STNW1174 - Standard for LV Embedded Generating Connections [</li> <li>AS/NZS 3000 - Electrical Installations</li> <li>AS 60034.1 Rotating electrical machines, Part 1: Rating and perform</li> <li>Queensland Electricity Connection Manual [version ]</li> </ul>	version ]
In addition to the above, the following attachments have been submitted as pa	art of the application:
<ul> <li>Attachment 1 – Engine/Turbine/Alternator Specifications &amp; Checklis</li> <li>Attachment 2 – Compliance Checklist</li> <li>Attachment 3 – Commissioning Test Results</li> <li>Attachment 4 – As Commissioned Drawings</li> </ul>	t
Signature:	
	RPEQ Engineer Name
	Registration Number
	Professional Title
	Company Name

Company Address

**Contact Details** 





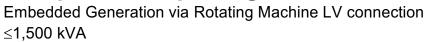
All questions in each applicable section must be answered.

### **Attachment 1 – Rotating Machine Specifications & Checklist**

Installation details	Data
Customer Name	
Customer contact details	
Ergon Energy contact	
Installation approved capacity (kVA)	
Installation approved export (kW)	
Installed capacity (kVA) (Must not exceed approved limit)	
Installed export power limit (kW) (Must not exceed approved export)	
Subject description (plant information) e.g. stand-by generator at shopping village	

#### As installed – Engine/Turbine Technical Data

Parameters	Data
Engine/Turbine type	
Make	
Model	
Rated Power (kWe/kWm)	
Rated Voltage (V)	
Rated Current (A)	

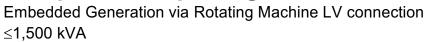




All questions in each applicable section must be answered.

#### As Installed – Alternator Technical Data

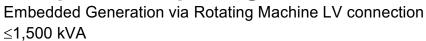
Parameters	Data				
Make					
Model					
Rated Power (kVA)					
Rated Current (A)					
Rated Voltage (V)					
Peak Short Circuit Current (kA)					
Manufacturer's specification data sheet/user manual attached  As Installed – Generating System	Yes No No				
		Deta musuida dataila			
System Details	Complies	Data, provide details (attach docs if required)			
Complies with AS 60034.1	Yes No No				
Comments (please supply additional information for any non-compliances and settings as required)					
Single Line Diagram (SLD) attached  Yes  No  Existing Onsite Embedded Generating Systems					
Existing Installation details	Data				
(prior to this application)					
Types					





All questions in each applicable section must be answered.

Capacity and export	
Changes made to legacy systems?	Yes No No
Details of change	



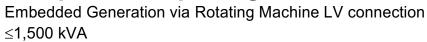


All questions in each applicable section must be answered.

### **Attachment 2 – Compliance Checklist**

Description	Comments
Voltage Fluctuation and Flicker	
Export Requirements	
Special Instructions	
Fluctuation and Harmonic Allocations	
Power Factor Limits	

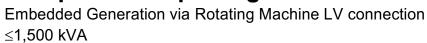
Clause	Description		Complies	
4.3	Stand-by hours limit compliance (if applicable)	Yes 🗌	No 🗌	N/A 🗌
4.3.1.3	Power limiting (for partial-export and non-export systems only)	Yes 🗌	No 🗌	N/A 🗌
4.7.2,	Protection device compliance, IPR functionality and settings	Yes 🗌	No 🗌	N/A 🗌
4.7.6.2	Loss of mains, NVD and backup anti-islanding protection		No 🗌	N/A 🗌
4.7.3	Interlocking (if applicable)		No 🗌	N/A 🗌
4.7.5	Re-energisation and synchronisation		No 🗌	N/A 🗌
4.7.6.1	Standards compliance		No 🗌	N/A 🗌
4.7.6.2	Exemptions (please list relevant exemptions authorised for this installation)		No 🗌	N/A 🗌
4.10.1.1 - 4.10.1.5	Power Quality		No 🗌	N/A 🗌
4.10.3	Power Control Mode settings		No 🗌	N/A 🗌
6	Commissioning		No 🗌	
7	Operation and maintenance	Yes 🗌	No 🗌	





All questions in each applicable section must be answered.

Comments	
(please supply additional information for any non-compliances and settings as required)	





All questions in each applicable section must be answered.

#### **Attachment 3 – Compliance Report – Commissioning**

Commissioning shall include the following information and test certificates are recommended for further evidence:

**Compliance with Standard for LV EG Connections** 

System Details	Complies	Data, provide details (attach docs if required)
Installed system meets all criteria outlined in the Ergon Energy's Technical Study Report issued for project	Yes  No	

#### **Rotating Machine**

System Details	Complies	Data, provide details (attach docs if required)
AC Output Voltage from inverter on commissioning	Yes No No	
Input and Output power from rotating machine on commissioning	Yes No No	
Re-energisation and synchronisation as per standard	Yes 🗌 No 🗌	
Rotating machine performed as per approved Operating type (Clause 4.3)	Yes No No	Operating Type:

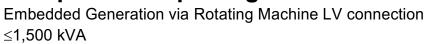
Embedded Generation via Rotating Machine LV connection ≤1,500 kVA



All questions in each applicable section must be answered.

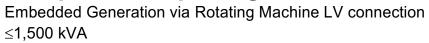
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	Complies		Data, provide details (attach docs if required)			
	Yes 🗌	No 🗌				
	Yes 🗌	No 🗌				
	Yes 🗌	No 🗌				
	Yes 🗌	No 🗌				
	Yes 🗌	No 🗌				
	Yes 🗌	No 🗌	N/A	N/A 🗌		
	Yes 🗌	No 🗌	N/A	. 🗆		
	Yes 🗌	No 🗌	N/A 🗌			
Data						
Data						
and settings	as required	)				
		Yes		No 🗌		
DNSD		Voc		No $\square$		
Power quality test results required to be provided to DNSP		168		NO 🗀		
		Yes		No 🗌	N/A 🗌	
•	DNSP or a Retai	Yes	Yes No   Yes	Yes   No	Yes   No	





All questions in each applicable section must be answered.						
Power quality raw data provided (.xlsx or .csv format)			Yes No No			
System Details		Complies			rovide details docs if required)	
Flicker		Yes 🗌	No 🗌			
Harmonics emissions levels (Testing not required if no power electronic converter present)		Yes 🗌	No 🗌			
Voltage Unbalance (%)		Yes 🗌	No 🗌			
Power Factor		Yes 🗌	No 🗌			
Copy of Test Certificates attached				Yes 🗌	No 🗌	
Interlocking N/A						
System Details	C	Complies			provide details docs if required)	
Manual (Key based) or	Yes 🗌 🗈 1	No 🗌				
Automated	Yes 🗌 🗈 1	No 🗌				
Prior approved automated design attached	Yes 🗌 🗈	No 🗌 N/	′A 🗌			





All questions in each applicable section must be answered.

### **Attachment 4 – As Commissioned Drawings**

Single Line Diagram and AC Schematics should include

RPEQ Signature	
NMI, Site name and address	
3. IPR settings	
Single Line Diagram (SLD) attached	Yes No No
AC schematics attached	Yes No No