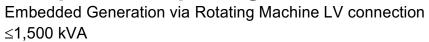




Certification			
Ergon Energy WR#:			
Date: / /			
Embedded Generation via RM > 30 kVA and ≤ 1,500 kVA – Project Name: Location: NMI:			
I certify that as a Registered Professional Engineer of Queensland and by virtue that the submission documentation complies with the requirements of the later			
 Ergon Energy's Technical Study Report provided for the above state STNW1174 - Standard for LV Embedded Generating Connections [AS/NZS 3000 - Electrical Installations AS 60034.1 Rotating electrical machines, Part 1: Rating and perform Queensland Electricity Connection Manual [version] 	version]		
In addition to the above, the following attachments have been submitted as p	art of the application:		
 Attachment 1 – Engine/Turbine/Alternator Specifications & Checklist Attachment 2 – Compliance Checklist Attachment 3– Commissioning Test Results Attachment 4 – As Commissioned Drawings 			
Signature:			
	RPEQ Engineer Name		
	Registration Number		
	Professional Title		
	Company Name		

Company Address

Contact Details





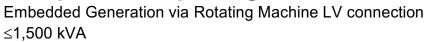
All questions in each applicable section must beanswered.

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_notexceed approved limit)	
Installed export power limit(kW) (Must notexceed approved export)	
Subject description (plant information) e.g. stand-by generator atshopping village	

As installed – Engine/Turbine Technical Data

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

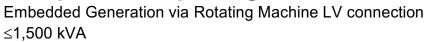




All questions in each applicable section must beanswered.

As	Installed	Alternato	r Technical	Data
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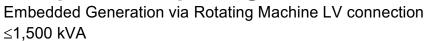
Parameters	Data		
Make			
Model			
Rated Power (kVA)			
Rated Current (A)			
Rated Voltage (V)			
Peak Short Circuit Current (kA)			
Manufacturer's specification data sheet/user manual attached	Yes	□ No □	
As Installed – Generating System			
System Details	Complies	Data, provide details (attach docs if required)	
Complies with AS 60034.1	Yes No No		
Comments (please supply additional information for anynon-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 beanswered.

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



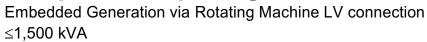


All questions in each applicable section must be answered.

Attachment 2 – Compliance Checklist

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

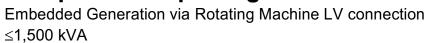
Clause	Description	Complies		
4.3	Stand-by hours limit compliance (if applicable)	Yes 🗌	No 🗌	N/A 🗌
4.3.1.3	Power limiting (for partial-export and non-export systems only)	Yes 🗌	No 🗌	N/A 🗌
4.7.2,	Protection device compliance, IPR functionality and settings	Yes 🗌	No 🗌	N/A 🗌
4.7.6.2	Loss of mains, NVD and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





All questions in each applicable section must be answered.

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





All questions in each applicable section must beanswered.

Attachment 3 – Compliance Report – Commissioning

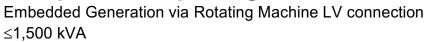
Commissioning shall include the following information and test certificates are recommended for further evidence:

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	
Re-energisation and synchronisation as per standard	Yes No No	
Rotating machine performed as per approved Operating type (Clause 4.3)	Yes No No	Operating Type:

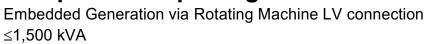




All questions in each applicable section must beanswered.

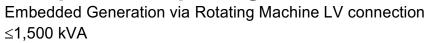
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System Details		Complies		Data, provide details (attach docs if required)		
Tripping and control scheme logic		Yes 🗌	No 🗌			
Instrument transformer ratios		Yes 🗌	No 🗌			
Relay settings as per STNW1174 Table 10		Yes 🗌	No 🗌			
Relay pickup tests		Yes 🗌	No 🗌			
IPR – ROCOF (setting)		Yes 🗌	No 🗌			
IPR – directional power (setting)		Yes 🗌	No 🗌	N/A		
IPR – negative sequence voltage (setting)		Yes 🗌	No 🗌	N/A		
IPR – negative sequence current (setting)		Yes 🗌	No 🗌	N/A		
IPR Details	Data					
Make						
Model						
Serial Number						
Comments (please supply additional information for anynon-compliance	s and settings	s as required)			
Commissioning results attached			Yes		No 🗌	
Power quality			V		No 🗆	
Power quality test results required to be provided to DNSP Where more than one Connection Point is present for a Retail Customer, testing has been completed for each Connection Poin			Yes Yes		No 🗌	N/A 🗌





All questions in each applicable section must beanswered.							
Power quality raw data provided (.xlsx or.csv format)				Yes 🗌	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		Complies			provide details docs if required)		
Manual (Key based) or	Yes 🗌	No 🗌					
Automated	Yes 🗌	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	
2. NMI, Site name and address	
3. IPR settings	
Single Line Diagram (SLD) attached	Yes 🗌 No 🗌
AC schematics attached	Yes 🗌 No 🗌