Compliance Reporting Form

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

Certification

CX Ref #:
Energex WR#:

Date: / /

Embedded Generation via Bumpless Transfer RM ≤ 1,500 kVA –
Project Name:
Location:
NMI:

I certify that as a Registered Professional Engineer of Queensland and by virtue of my training and experience, that the submission documentation complies with the requirements of the latest revisions of the following:

- Energex's Technical Study Report provided for the above stated project
- STNW1174 - Standard for LV Embedded Generating Connections [version]
- AS/NZS 3000 – Electrical Installations
- AS 60034.1 Rotating electrical machines, Part 1: Rating and performance
- Queensland Electricity Connection Manual [version]

In addition to the above, the following attachments have been submitted as part 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

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All questions in each applicable section must be answered.

Attachment 1 – Rotating Machine Specifications & Checklist

Installation details	**Data**
Customer Name	
Customer contact details	
Energex contact	
Installation approved capacity (kVA)	
Installation approved export (kW)	0kW
Installed capacity (kVA) (Must not exceed approved limit)	
Installed export power limit (kW) (Must not exceed approved export)	

As installed – Engine Technical Data

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

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As Installed – Alternator Technical Data

Parameters	Data
Type	
Make	
Model	
Rated Power (kVA)	
Rated Current (A)	
Rated Voltage (V)	

Manufacturer's specification data sheet/user manual attached Yes ☐ No ☐

As Installed – Generating System

Description	Tested by:
Complies with AS 60034.1	Yes ☐ No ☐

Comments
(please supply additional information for any non-compliances)

Single Line Diagram (SLD) attached Yes ☐ No ☐

Existing Onsite Embedded Generating Systems

Existing Installation details*	Data
Types	
Capacity and export	

*Prior to this application

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All questions in each applicable section must be answered.

Attachment 2 – Compliance Checklist

Compliance with Standard for LV EG Connections

Clause	Description	Complies
4.5.1	Changeover switch standards compliance (AS/NZS IEC60947.6.1)	Yes ☐ No ☐
4.7.3	Interlocking	Yes ☐ No ☐ N/A ☐
4.7.5	Re-energisation and synchronisation	Yes ☐ No ☐
4.7.6.1	Standards compliance (AS60034.1)	Yes ☐ No ☐ N/A ☐
6	Commissioning	Yes ☐ No ☐
7	Operation and maintenance	Yes ☐ No ☐

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

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 Energex's Technical Study Report issued for project	Yes ☐ No ☐	

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All questions in each applicable section must be answered.

Rotating Machine

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

Protection

System Details	Complies	Data, provide details (attach docs if required)
Tripping and control scheme logic	Yes ☐ No ☐	
Instrument transformer ratios	Yes ☐ No ☐	

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

Commissioning results attached Yes ☐ No ☐

Interlocking N/A ☐

System Details	Complies	Data, provide details (attach docs if required)
Manual (Key based) or	Yes ☐ No ☐	
Automated	Yes ☐ No ☐	

Prior approved automated design attached Yes ☐ No ☐

All questions in each applicable section must be answered.

Attachment 4 – As Commissioned Drawings

Single Line Diagram and AC Schematics should include

1. RPEQ Signature
2. NMI, Site name and address
3. Transfer switch and/or manual interlocking arrangement

Single Line Diagram (SLD) attached	Yes ☐	No ☐
AC schematics attached	Yes ☐	No ☐