

**EMBEDDED GENERATION (EG) SYSTEM
COMMISSIONING REPORT**

<u>System:</u> Quality Management System	<u>Reference No, Revision No:</u> Q-RD-RR-P-01-F-01, Rev 1	<u>Originated by:</u> Research and Renewables Engineer
<u>Revision Date:</u> 27.10.2022	<u>Page No:</u> Page 1 of 4	<u>Authorised by:</u> GM Research and Development

EMBEDDED GENERATION (EG) SYSTEM COMMISSIONING REPORT

The Commissioning Report must be completed by an ECSA registered professional or Industry Accredited Installer once the permission to install has been received and the system has been installed. The following EG/SSEG Commissioning Report must be submitted for each installation, confirming compliance with EEC's requirements.

Project Name		Application Ref.:	
Date (DD/MM/YYYY):			

Account Holder Details

Name:			
Electricity Account No:			
Township/Suburb/Farm			
Telephone Number:	Landline:	Mobile:	
Email Address:			
Physical address:			
		Postal code:	

Installer Details

Company Name:			
Contact Person:			
Telephone Number:	Landline:	Mobile:	
Email Address:			
Physical address:			
		Postal code:	

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EG System Details

Manufacturer/s and Model/s type :	
Total AC rating (kVA):	
Single or three phase:	
Serial number/s of key equipment (specify equipment e.g. inverter/s):	

Attachments Checklist ✓

Final as-built circuit diagram: <i><u>NOTE:</u> The diagram is to clearly indicate point of connection to EEC network, the location of all protection devices, location of all breakers/isolators/disconnectors and meter.</i>	
Energy Conversion type test Certificate of Compliance according to NRS 097-2-1, issued by accredited 3 rd party test house (mandatory for inverters):	
If storage inverter in parallel, a separate NRS097-2-1 certificate for storage inverter:	

Compulsory Declaration, Test and Sign-Off

Commissioning Date	
The EG system installation complies with the relevant sections of NRS 097-2-1 and NRS 097-2-3 and Eswatini Grid Code:	
ANTI-ISLANDING TEST: Anti-Islanding and reconnection test	
1. Anti-islanding test: (multi-meter required) With the system running (main breaker closed and EG system producing power), OPEN the main breaker to the EG system installation. Does the EG system activate anti-islanding mode? Measure the voltage at the AC output terminals of the SSEG or at the connection point to the AC mains board.	YES/NO V
2. EG Re-connection test: (stop watch required) With the main breaker OPEN and the EG system in island mode, reconnect the mains (close main breaker).	s

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Measure the time the EG system takes to reconnect to the network/grid.(minimum must be 60 sec)

Safety labels have been fitted in accordance with NRS 097-2-1 (distribution board and metering point):

Protection settings have been set to comply with the latest edition of NRS 097-2-1 and the approved generation capacity maximum output of the inverter has been limited by appropriate hardware or software settings.

The EG system installation complies with the relevant sections of SANS 10142-1 and SANS 10142-1-2 '*The wiring of premises; Specific requirements for embedded generation installations connected to the low voltage distribution Network in South Africa*' standard (as published):

The EG system installation complies with **licensing/registration** requirements of ESERA

The EG system installation complies with any reverse feed limitations in the EEC's 'Requirements for Embedded Generation' document (if applicable):

Comments:

SIGN-OFF

Up to 100kVA -

(for PV) Industry Accredited Installer* signoff

OR

ECSA registered Pr Eng or Pr Tech Eng

Over 100kVA –

ECSA registered Pr Eng or Pr Tech Eng

Date

Signature

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Full Name of
signatory:

Signatory registration details
(tick if applicable):

Industry
Accredited
Installer*

ECSA (e.g. PR
Eng/Tech Eng)

Registration No.
(ECSA / Industry
Accreditation*)

Company Name:

Telephone Number:

Landline:

Mobile:

Email Address:

Physical address:

Postal
code:

*e.g. PV GreenCard, P4