



# SMALL-SCALE EMBEDDED GENERATION COMMISSIONING REPORT

**Project Name:**

Notes: (e.g. new system / existing system being expanded etc)

## Account Holder Details

Name:			
Electricity Account No:			
ERF No:			
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:	

## SSEG Details

Key equipment Manufacturer/s and Model/s:	
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:

*NOTE: The diagram is to clearly indicate point of connection to municipal network, the location of all protection devices, location of all breakers/isolators/disconnectors, measurement location for all protection and control devices, connection point of SSEG to the total system*  
(Single Line Diagram templates can be found at: <https://www.sseg.org.za/embedded-generator-single-line-diagram-templates/> )

Energy Conversion type test Certificate of Compliance according to NRS 097-2-1, issued by accredited 3<sup>rd</sup> party test house (mandatory for inverters):

(If storage inverter in parallel:) Separate NRS097-2-1 certificate for storage inverter:

Electrical installation Certificate of Compliance according to SANS 10142- 1 (and SANS10142-1-2 'The wiring of premises; Specific requirements for embedded generation installations connected to the low voltage distribution Network in South Africa' when published) issued by a registered Installation or Master Electrician.

## Compulsory Declaration, Test and Sign-Off

The SSEG installation complies with the relevant sections of NRS 097-2-1 and NRS 097-2-3:	Y/N
<p><b>Anti-Islanding and reconnection test</b> <i>From a technical point of view the NRS097-2-1 test certificate covers these issues quite thoroughly, so if this is in place there are no safety concerns that REQUIRE the municipalities to do such tests as described below. Municipalities may choose to perform such tests on a few installations for additional comfort on safety aspects, rather to have them mandatory.</i></p>	
<p><b>1. Anti-islanding test: (multi-meter required)</b> With the system running (main breaker closed and SSEG producing power), OPEN the main breaker to the SSEG installation. - Does the SSEG 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.</p>	YES/NO .....V
<p><b>2. SSEG Re-connection test: (stop watch required)</b> With the main breaker OPEN and the SSEG in island mode, reconnect the mains (close main breaker). Measure the time the SSEG takes to reconnect to the network/grid.(minimum must be 60 sec)</p>	.....S
Safety labels have been fitted in accordance with NRS 097-2-1 (distribution board and metering point):	
The SSEG complies with <b>licensing/registration</b> requirements of NERSA (if relevant)	
The SSEG installation complies with any reverse feed/export limitations in the Municipality's 'Requirements for Small Scale Embedded Generation' document (if applicable), including being set up to comply with <b>maximum export capacity</b> limits:	
If <b>storage</b> is included, the installation is set up to comply with <b>maximum charging current</b> limits:	
Comments/notes:	

**SIGN-OFF OPTION 1:**

Up to 30kVA -  
 (for PV) Industry Accredited Installer\* signoff  
 OR  
 ECSA registered professional\*\*  
 Over 30kVA –

*Note: once SANS10142-1-2 is published, a CoC in terms of this standard is all that will be needed - the Industry Accredited Installer and ECSA registered professional\*\* signoff will fall away.*

\_\_\_\_\_

Date

\_\_\_\_\_

Signature

Full Name of signatory:			
Signatory registration details (tick if applicable):	Industry Accredited Installer*		ECSA registered professional**
Registration No. (ECSA / Industry Accreditation*)			
Company Name:			
Telephone Number:	Landline:	Mobile:	
Email Address:			
Physical address:			Postal code:

\*eg PV GreenCard, P4

\*\* - ESCA registered professional category signoff limits<sup>1</sup> :

- Professional Engineer - signoff any size system
- Professional Engineering Technologist - signoff any size system
- professional Certified Engineer - signoff up to 200kW system
- professional Engineering Technician - signoff up to 12kW 1-ph

<sup>1</sup> This is based on the NRS Interim Recommendation for SSEG Sign-off (11 March 2024)

