



## SWARTLAND MUNICIPALITY SMALL-SCALE EMBEDDED GENERATION COMMISSIONING REPORT

<b>Project Name:</b>	
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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: <i>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</i>	
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 when published):	

## 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></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?</p> <p>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 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), and an installation Certificate of Compliance is attached:	
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 REQUIREMENTS**

Up to 30kVA -  
 (for PV) Industry Accredited Installer\* signoff  
 OR  
 ECSA registered Pr Eng or Pr Tech Eng  
 Over 30kVA –  
 ECSA registered Pr Eng or Pr Tech Eng  
 \* - such as PV Green Card

Note that a registered electrical contractor is required to oversee all installations, and issue a CoC accordingly.

*Note: once SANS10142-1-2 is published and electricians are qualified to issue CoCs according to this, such a CoC is all that will be needed - the Industry Accredited Installer and PR Eng etc signoff will fall away.*

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Date Signature

Full Name of signatory:			
Signatory registration details (tick if applicable):	Industry Accredited Installer*	<input type="checkbox"/>	ECSA (e.g.Pr Eng/Tech Eng)
Registration No. (ECSA / Industry Accreditation*)			
Company Name:			
Telephone Number:	Landline:	Mobile:	
Email Address:			
Physical address:			Postal code:

\*eg PV GreenCard, P4