

SMALL-SCALE EMBEDDED GENERATION COMMISSIONING REPORT



Knysna

Municipality || Munisipaliteit || uMasipala

inclusive || innovative || inspired

Project Name:

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

Account Holder Details (Customer)

Name:			
Electricity Account No: Or Meter number if Prepayment			
ERF No:			
Telephone Number:	Landline:	Mobile:	
Email Address:			
Physical address:			
		Postal code:	

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

Energy Conversion type test Certificate of Compliance according to NRS 097-2-1, issued by accredited 3rd 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
ANTI-ISLANDING TEST OPTION 1: Standard Anti-Islanding test	<i>Tick chosen option</i>
The loss of mains protection (anti-islanding) has been checked to be functional in test carried out on-site – i.e. a momentary disconnection of the mains supply to the site:	Y/N
ANTI-ISLANDING TEST OPTION 2: Anti-Islanding and reconnection test <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>	<i>Tick chosen option</i>
1. Anti-islanding test: (multi-meter required) 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.	YES/NOV
2. SSEG Re-connection test: (stop watch required) 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)S
ANTI-ISLANDING TEST OPTION 3:	
(Own text)	<i>Tick chosen option</i>
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 licensing/registration 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 maximum export capacity limits:	
If storage is included, the installation is set up to comply with maximum charging current limits:	
Comments/notes:	



SIGN-OFF OPTION 1:

Up to 30kVA -
ECSA* registered Pr Technician Eng

*Tick
chosen
option*

SIGN-OFF OPTION 2:

Over 30VA -
ECSA registered Pr Technologist Eng or Pr Engineer

*Tick
chosen
option*

Date

Signature

Full Name of signatory:					
Signatory registration details (tick the appropriate box):	Pr Techni Eng.	<input type="checkbox"/>	Pr Tech Eng.	<input type="checkbox"/>	Pr Eng.
Registration No. (ECSA*)					
Company Name:					
Telephone Number:	Landline:			Mobile:	
Email Address:					
Physical address:				Postal code:	

*ECSA – Engineering Council of South Africa

