

EREC G99 Small Generation Installation Process

**Proposed Replacement of the existing EREC G99 Integrated
Microgeneration and Storage process.**

Introduction

This document describes three processes to allow the rapid connection of small generation equipment in customers' installations. The process that applies depends on the type, size and quantity of generation that is to be connected and the generation that is already installed.

These processes apply when:

- All existing and new generation and/or storage equipment is type tested to meet the requirements of G83, G59, G98 or G99;
- All of the generation and/or storage equipment is located in a single customer's premises;
- The basic design of each device is such that its maximum rating is 32A (per phase) or less.

Generation equipment can now be supplied by manufacturers where the output can be limited, for example, by software. This allows equipment that otherwise might be too large to be connected, if running at full power, to have its output power limited such that it can be connected. This is especially useful if the limit is expected to be temporary whilst an investigation is undertaken to confirm whether the restriction can be removed and the equipment run at full power.

Electric vehicles are considered as storage equipment if, and only if, they operate in vehicle to grid mode.

Customers can also take advantage of G100 Customer Limitations Schemes where the export of power to the distribution network is limited by a system that measures the current at the connection point. Such systems/schemes have to comply with G100. Two of the three Small Generation Installation processes use G100 schemes.

The existing G98 and three G99 Small Generation Installation Processes can be summarised as follows:

G98	All generation/storage devices are each rated at no more than 16A and the total of all ratings is also no more than 16A. ⁺
G99 SGI-1	All generation/storage devices are each rated* at no more than 16A and the total of all the ratings* is also no more than 16A. ⁺
G99 SGI-2	All generation/storage devices are each rated* at no more than 16A and the total of all the ratings* is no more than 32A. A G100 scheme limits the export to the distribution network to no more than 16A.
G99 SGI-3	All generation/storage devices are each of rated* at no more than 32A and the total of all the ratings is no more than 60A. A G100 scheme limits the export to the distribution network to no more than 32A.

+ Note that the difference between the G98 process and G99 SGI-1 process is that in the G99 SGI-1 process the rating can be limited by the manufacture to less than the basis design capacity, which is not permitted in the G98 process. Both process are, however both 'install and notify' processes.

* For Small Generation Installation purposes the rating can be less than the basic design capacity if the manufacturer has limited the output to the lower rating. This is not allowable for connections under G98.

Small Generation Installation – Procedure 1

- (a) This process applies if all these conditions are met:
1. All of the generation and/or storage equipment is located in a single installation, ie in a single customer's premises;
 2. All existing and new generation and/or storage equipment is type tested to G83, G59, G98 or G99;
 3. The basic design capacity of each piece of equipment is 32 A (per phase) or less;
 4. Any equipment that has a basic design capacity of greater than 16 A is making use of the manufacturer's facility to limit its output to 16 A; and
 5. The sum of all the ratings of all the equipment is no more than 16 A per phase.
- (b) If all the conditions in (a) are met, the equipment can be connected and Form A3-3 (attached) submitted to the DNO. Where the DNO provides an on-line application tool for SGI-1, this can be used instead of Form A3-3.
- (c) Before any restriction on output can be removed, a formal application must be made to the DNO using either Form A1-1 or Form A1-2 as appropriate (attached). Again, where the DNO provides an on-line application tool, this can be used instead of Forms A1-1 or A1-2.

Small Generation Installation – Procedure 2

Note - this process is the existing Integrated Microgeneration and Storage process, sometimes called the fast track process. It has been retained so as not to apply any new requirements to installations that meet the requirements of this existing process.

- (a) This process applies if all these conditions are met:
1. All of the generation and/or storage equipment is located in a single installation, ie in a single customer's premises;
 2. All existing and new generation and/or storage equipment is type tested to G83, G59, G98 or G99;
 3. The basic design capacity of each piece of equipment is 32A (per phase) or less;
 4. Any equipment that has a basic design capacity of greater than 16 A is making use of the manufacturer's facility to limit its output to 16 A;
 5. The sum of all the ratings of all the equipment is no more than 32 A per phase; and

6. A G100 export limitation scheme limits the export to the distribution network to be no more than 16 A.
- (b) If all the conditions in (a) are met the customer should apply to connect the equipment using form A1-2 (attached). Where the DNO provides an on-line application tool for SGI-2, this can be used instead of Form A1-2.
- (c) The DNO will confirm whether the installation and commissioning can go ahead within ten days.
- (d) The planned commissioning date stated on the application form must be between 10 working days and 3 months from the date that the application is submitted to the network operator.
- (d) If the DNO confirms in (c) above that commissioning can go ahead, confirmation of the commissioning of the equipment must be made no later than 28 days after commissioning. Confirmation shall be provided in a format as shown in Form A3-2 (attached). In addition to Form A3-2, an EREC G100 export limitation scheme Installation and Commissioning Tests form (attached) must be submitted along with the commissioning confirmation form. Again, where the DNO provides an on-line application tool, this can be used instead of the forms listed in this paragraph.
- (e) If the DNO needs to undertake further analysis, the DNO will confirm this at (c) above. This effectively ends the SGI-2 process and the application will be progressed by the DNO in the normal way.

Small Generation Installation – Procedure 3

- (a) This process applies if all these conditions are met:
 1. All of the generation and/or storage equipment is located in a single installation, ie in a single customer's premises;
 2. All existing and new generation and/or storage equipment is type tested to meet the requirements of G83, G59, G98 or G99;
 3. The basic design capacity of each piece of equipment is such that its maximum rating is 32A (per phase) or less;
 4. The sum of all the ratings of all the equipment is no more than 60 A per phase; and
 5. A G100 export limitation scheme limits the export to the distribution network to be no more than 32 A.
- (b) If all the conditions in (a) are met the customer should apply to connect the equipment using Form A1-2 (attached). Where the DNO provides an on-line application tool for SGI-3, this can be used instead of Form A1-2.
- (c) The DNO will confirm within 10 working days of the submission whether it is necessary for a site specific analysis of the application, taking into account the basic design of each piece of equipment, the overall effect of all the equipment and the local network conditions. Where the network operator identifies there is a need for further analysis, no further submission of information is required, but commissioning must not proceed until the network operator has established if it is necessary to upgrade the network, and whether such work may be chargeable.

- (d) The planned commissioning date stated on the application form must be between 10 working days and 3 months from the date that the application is submitted to the network operator.
- (e) If the DNO confirms in (c) above that commissioning can go ahead, confirmation of the commissioning of the equipment must be made no later than 28 days after commissioning. Confirmation shall be provided in a format as shown in Form A3-2 (attached). In addition to Form A3-2, an EREC G100 export limitation scheme Installation and Commissioning Tests form (attached) must be submitted along with the commissioning confirmation form. Again, where the DNO provides an on-line method, this can be used instead of the forms listed in this paragraph.

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It is proposed to replace Form A1-2 with the form shown below

Form A1-2 : Application for connection of Fully Type Tested Generation under the Small Generation Installation Procedure	
<p>For Small Generation Installation Procedures 2 or 3, this simplified application form can be used where all of the following eligibility conditions are met:</p> <ul style="list-style-type: none"> • The new and existing Generating Units are located in a single Generator's Installation; • The Intrinsic Design Capacity of each new and existing Generating Unit is no more than 32 A; • All of the Generating Units (including Electricity Storage devices) are connected via EREC G98 or EREC G99 Fully Type Tested inverters;¹ • The total aggregate Registered Capacities of all the Generating Units (including Electricity Storage devices) is less than 60 A per phase; and • Where required by the relevant Small Generation Installation procedure SGI-2 or SGI-3, an EREC G100 compliant export limitation scheme is present that limits the export from the Generator's Installation to the Distribution Network; <p>DNOs may have their own forms; refer to the DNO's websites and online application tools. The application should include the Manufacturer's reference number (the system reference) from the ENA Type Test Verification Report Register.</p> <p>If all the eligibility conditions apply the DNO will confirm that the installation can proceed. The planned commissioning date stated on the application shall be between 10 working days and 3 months from the date the application is submitted.</p> <p>On completion of the installation the Installer shall submit the commissioning sheets, as required in EREC G100 alongside the EREC G99 forms.</p>	
<p>To ABC electricity distribution 99 West St, Imaginary Town, ZZ99 9AA</p>	<p>DNO abcd@wxyz.com</p>
Generator Details:	
Generator (name)	
Address	
Post Code	
Contact person (if different from Generator)	
Telephone number	
E-mail address	
MPAN(s)	

¹ Or **Type Tested** to EREC G83 or G59 where the **Generating Unit** was connected prior to 27 April 2019.

Installer Details:								
Installer								
Accreditation / Qualification								
Address								
Post Code								
Contact person								
Telephone Number								
E-mail address								
Installation details:								
Address								
Post Code								
MPAN(s)								
Details of Existing Generating Units – where applicable:								
Manufacturer	Approximate Date of Installation	Energy source and energy conversion technology (enter codes from tables 1 and 2 below form)	Manufacturer's Ref No. where available	Generating Unit Intrinsic Design Capacity & Registered Capacity (kW)*				Energy storage capacity for Electricity Storage devices (kWh)
				3-phase units		Single Phase Units		
				IDC	RC	IDC	RC	
Details of Proposed Additional Generating Unit(s):								
Manufacturer	Approximate Date of Installation	Energy source and energy conversion technology (enter	Manufacturer's Ref No. where available	Generating Unit Intrinsic Design Capacity & Registered Capacity (kW)*				Energy storage capacity for Electricity Storage
				3-phase units		Single Phase Units		

		codes from tables 1 and 2 below)		IDC	RC	IDC	RC	devices (kWh)
Details of Export Limitation Scheme								
Where an export limitation scheme is required by SGI-2 or SGI-3 please state export limit setting in amps.								
Please confirm all of the statements below are true by ticking each box:								
The Generating Unit(s) is located in a single Generator's Installation .								
The Intrinsic Design Capacity of each new and existing Generating Unit is no more than 32 A.								
All of the Generating Units (including Electricity Storage devices) are connected via EREC G99 or G98 Type Tested Inverters (or EREC G59 or G83 Type Tested Inverters , where the Power Generating Unit was installed prior to 27 April 2019)								
The total aggregate Registered Capacity of the Generating Units (including Electricity Storage devices) is no more than 60 A per phase.								
An EREC G100 compliant export limitation scheme is present that limits the export from the Generator's installation to the Distribution Network if required by SGI-2 or SGI-3.								
The following information should be submitted with the application:								
Copy of single line diagram of export limitation scheme.								
<p>Explanation / description of the EREC G100 export limitation scheme operation including a description of the fail-safe functionality, ie the response of the scheme following failure of any component or device of the fail-safe system, or following any loss of communication between the components and devices of the scheme.</p> <p>Note, fail-safe tests are not required at installations where all Generating Units are EREC G83 or EREC G98 Type Tested, aggregated capacity is not more than 32 A per phase and export is limited to 16 A per phase.</p>								
Additional details:								
Target date for provision of connection / commissioning of new Generating Units :**								
EREC G100 compliance declaration / EREC G100 Type Test reference as applicable:								

Form G99 Form A1-2

Signed :	Date :
<p>Use continuation sheet where required.</p> <p>* Record Power Generating Module Registered Capacity kW at 230 AC, to one decimal place,.</p> <p>** The planned commissioning date shall be between 10 working days and 3 months from the date of application but not more than 3 months in advance (connection offers are only valid for 3 months).</p>	

It is proposed to replace Form A3-2 with the form shown below

Form A3-2: Installation Notification Form for Small Generation Installation Procedures 2 and 3	
Please complete and provide this document for each installation.	
Part 1 should be completed for the overall installation.	
Part 2 should be completed for each of the Generating Units (ie for the Electricity Storage devices and non- Electricity Storage Generating Unit inverters) being commissioned. Where the installation is phased the form should be completed on a per Generating Unit basis as each part of the installation is completed in accordance with EREC G99 paragraph 15.3.3. For phased installations reference to PGM in this form should be read as reference to Generating Units .	
Form A3-2 Part 1	
To ABC electricity distribution DNO 99 West St, Imaginary Town, ZZ99 9AA abcd@wxyz.com	
Generator details:	
Generator (name)	
Address	
Post Code	
Contact person (if different from Generator)	
Telephone number	
E-mail address	
MPAN(s)	
Generator signature	
Installer details:	
Installer	
Accreditation / Qualification	
Address	

Post Code									
Contact person									
Telephone Number									
E-mail address									
Installer signature									
Installation details:									
Address									
Post code									
Location within Generator's Installation									
Location of Lockable Isolation Switch									
Summary details of Generating Units - where multiple Generating Units will exist within one Generator's Installation									
Manufacturer / Reference	Date of Installation	Energy source and energy conversion technology (enter codes from tables 1 and 2 below)	Manufacturers Ref No. (system reference) or Reference to Form A2-3	Generating Unit Registered Capacity in kW				Power Factor	
				3-Phase Units	Single Phase Units				
					PH 1	PH 2	PH 3		
Emerging technology classification (if applicable)									
Commissioning Checks									
Description						Confirmation			
Generator's Installation satisfies the requirements of BS7671 (IET Wiring Regulations).						Yes / No*			

Suitable lockable points of isolation have been provided between the PGM(s) and the rest of the Generator's Installation .	Yes / No*
Labels have been installed at all points of isolation in accordance with EREC G99.	Yes / No*
Interlocking that prevents the PGM(s) being connected in parallel with the DNO's Distribution Network (without synchronising) is in place and operates correctly.	Yes / No*
Balance of Multiple Single Phase Generating Units . Confirm that design of the Generator's Installation has been carried out to limit output power imbalance to below 16 A per phase, as required by EREC G99.	Yes / No*
The PGM complies with cyber security requirements	Yes / No*
Export limitation scheme meets the requirements of EREC G100 and has been commissioned in accordance with EREC G100.	Yes / No*
Information to be enclosed	
Description	Confirmation *
As installed Standard Application Form data, unless already provided.	Yes / No*
Final copy of circuit diagram	Yes / No*
EREC G100 Export limitation scheme installation and commissioning test form.	Yes / No*

Form A3-2 Part 2	
Power Generating Module reference or name	
Information to be enclosed	
Description	Confirmation *
Schedule of protection settings (may be included in circuit diagram)	Yes / No*
Commissioning checks	
The Interface Protection settings have been checked and comply with EREC G99.	Yes / No*
The PGM successfully synchronises with the DNO's Distribution Network without causing significant voltage disturbance.	Yes / No*
The PGM successfully runs in parallel with the DNO's Distribution Network without tripping and without causing significant voltage disturbances.	Yes / No*
The PGM successfully disconnects without causing a significant voltage disturbance, when it is shut down.	Yes / No*
Interface Protection operates and disconnects the DNO's Distribution Network quickly (within 1 s) when a suitably rated switch, located between the PGM and the DNO's incoming connection, is opened.	Yes / No*
The PGM remains disconnected for at least 20 s after switch is reclosed.	Yes / No*
Loss of tripping and auxiliary supplies. Where applicable, loss of supplies to tripping and protection relays results in either the forced trip of the PGM (or relevant Generating Unit) or an alarm to a 24 hour manned control centre.	Yes / No*
*Circle as appropriate. If "No" is selected the Power Generating Facility is deemed to have failed the commissioning tests and the PGM shall not be put in service.	
Additional comments / observations:	

Declaration – to be completed by **Generator** or **Generator's** Appointed Technical Representative

I declare that for the **Power Generating Module** within the scope of this EREC G99, and the installation:

1. Compliance with the requirements of EREC G99 and EREC G100 is achieved.
2. The **Power Generating Module** is **Fully Type Tested**.
3. The commissioning checks detailed in this Form A3-2 Part 2 have been successfully completed.

Name:

Signature:

Company Name:

Position:

Date:

It is proposed to add a new Form A3-3 into G99 as shown below:

Form A3-3 – Installation Notification Form for Small Generation Installation Procedure 1

This form is to be used for the notification to the **DNO** of **Generating Units** installed and commissioned under **Small Generation Installation Procedure 1** and where the eligibility conditions are met:

- The new and existing **Generating Units** are located in a single **Generator's Installation**;
- The **Intrinsic Design Capacity** of each new and existing **Generating Unit** is no more than 32 A per phase;
- The **Registered Capacity** of each new or existing **Generating Unit** is no more than 16A per phase;
- All of the **Generating Units** (including **Electricity Storage** devices) are connected via EREC G98 or EREC G99 **Fully Type Tested** Inverters;²
- The total aggregate **Registered Capacities** of all the **Generating Units** (including **Electricity Storage** devices) is less than 16 A per phase; and

DNOs may have their own forms; refer to the **DNO's** websites and online application tools. The application should include the **Manufacturer's** reference number (the system reference) from the ENA Type Test Verification Report Register.

On completion of the installation the **Installer** shall submit this form A3-3, alongside an application for the removal of the limitation on the appropriate EREC G99 forms (if permission is being sought for the removal of the limitation at the same time as submitting this notification).

Please complete and provide this document for each premises, once the installation is complete.

To ABC electricity distribution	DNO
99 West St, Imaginary Town, ZZ99 9AA	abcd@wxyz.com

Customer details:

Customer (name)	
Address	
Post Code	
Contact person (if different from Customer)	
Telephone number	
E-mail address	
Customer signature	

² Or **Type Tested** to EREC G83 or G59 where the **Generating Unit** was connected prior to 27 April 2019.

Installer details:							
Installer							
Accreditation / Qualification							
Address							
Post Code							
Contact person							
Telephone Number							
E-mail address							
Installer signature							
Installation details							
Address							
Post Code							
MPAN(s)							
Location within Customer's Installation							
Location of Lockable Isolation Switch							
Details of Generating Units. Use a separate line for new and existing installations and for different technology types. Use PH 1 column for single phase supply.							
Manufacturer	Date of Installation	Energy source and energy conversion technology (enter codes from tables 1 and 2 below)	Manufacturer's Ref No (this number should be registered on the ENA Type Test Verification Report Register as the system reference)	Generating Unit capacities in kW			Energy storage capacity for Electricity Storage devices (kWh)
				3-Phase Units	Single Phase Units		
				PH1	PH2	PH3	
				Intrinsic Design Capacity (kW)*			
				Registered Capacity (kW)*			
				Intrinsic Design Capacity (kW)			

				Registered Capacity (kW)				
				Intrinsic Design Capacity (kW)				
				Registered Capacity (kW)				
				Intrinsic Design Capacity (kW)				
				Registered Capacity (kW)				
Declaration – to be completed by Installer for Generating Units tested to EREC G98 or EREC G99.								
I declare that the relevant Generating Units and the installation which together form a Power Generating Module at the above address, conform to the requirements of EREC G99.								
Signature:				Date:				

* **Intrinsic Design Capacity** is the basic design capacity of the **Generating Unit** (and will be the value of **Registered Capacity** in the ENA's Type Test Register). For SGI-1, where the **Registered Capacity** is limited and is less than the **Intrinsic Design Capacity**, both values should be recorded here.

Table 1

	Energy Source
A	Advanced Fuel (produced via gasification or pyrolysis of biofuel or waste)
B	Biofuel - Biogas from anaerobic digestion (excluding landfill & sewage)
C	Biofuel - Landfill gas
D	Biofuel - Sewage gas
E	Biofuel - Other
F	Biomass
G	Fossil - Brown coal/lignite
H	Fossil - Coal gas
I	Fossil - Gas
J	Fossil - Hard coal
K	Fossil - Oil
L	Fossil - Oil shale

	Energy Source
M	Fossil - Peat
N	Fossil - Other
O	Geothermal
P	Hydrogen
Q	Nuclear
R	Solar
S	Stored Energy (all stored energy irrespective of the original energy source)
T	Waste
U	Water (flowing water or head of water)
V	Wind
W	Other

Table 2

	Energy Conversion Technology
1	Engine (combustion / reciprocating)
2	Fuel Cell
3	Gas turbine (OCGT)
4	Geothermal power plant
5	Hydro - Reservoir (not pumped)
6	Hydro - Run of river
7	Hydro - Other
8	Interconnector
9	Offshore wind turbines
10	Onshore wind turbines
11	Photovoltaic
12	Steam turbine (thermal power plant)
13	Steam-gas turbine (CCGT)
14	Tidal lagoons
15	Tidal stream devices
16	Wave devices
17	Storage - Chemical - Ammonia
18	Storage - Chemical - Hydrogen
19	Storage - Chemical - Synthetic Fuels
20	Storage - Chemical - Drop-in Fuels
21	Storage - Chemical - Methanol
22	Storage - Chemical - Synthetic Natural Gas

	Energy Conversion Technology
23	Storage - Electrical - Supercapacitors
24	Storage - Electrical - Superconducting Magnetic ES (SMES)
25	Storage - Mechanical - Adiabatic Compressed Air
26	Storage - Mechanical - Diabatic Compressed Air
27	Storage - Mechanical - Liquid Air Energy Storage
28	Storage - Mechanical - Pumped Hydro
29	Storage - Mechanical - Flywheels
30	Storage - Thermal - Latent Heat Storage
31	Storage - Thermal - Thermochemical Storage
32	Storage - Thermal - Sensible Heat Storage
33	Storage - Electrochemical Classic Batteries -Lead Acid
34	Storage - Electrochemical Classic Batteries -Lithium Polymer (Li-Polymer)
35	Storage - Electrochemical Classic Batteries -Metal Air
36	Storage - Electrochemical Classic Batteries -Nickel Cadmium (Ni-Cd)
37	Storage - Electrochemical Classic Batteries -Sodium Nickel Chloride (Na-NiCl ₂)
38	Storage - Electrochemical Classic Batteries -Lithium Ion (Li-ion)
39	Storage - Electrochemical Classic Batteries -Sodium Ion (Na-ion)
40	Storage - Electrochemical Classic Batteries -Lithium Sulphur (Li-S)
41	Storage - Electrochemical Classic Batteries -Sodium Sulphur (Na-S)
42	Storage - Electrochemical Classic Batteries -Nickel –Metal Hydride (Ni-MH)
43	Storage - Electrochemical Flow Batteries - Vanadium Red-Oxide
44	Storage - Electrochemical Flow Batteries - Zinc – Iron (Zn –Fe)
45	Storage - Electrochemical Flow Batteries - Zinc – Bromine (Zn –Br)
46	Storage - Other
47	Other

G100 Form B – Export Limitation Scheme Installation and Commissioning Tests

Commissioning test requirements for **Export Limitation Schemes**, in addition to those required by EREC G83 or G59.

DNO Ref. No.: _____	MPAN¹ (21/13-digits): _____
Customer Name
Address of ELS (where equipment will be used)
Installer
Installer Address
Information to be Provided	
Description	Confirmation
Final copy of Single Line Diagram of Export Limitation Scheme	Yes / No*
Copy of Manufacturers G100 Product Declaration (Appendix C)	Yes / No*
Explanation of Export Limitation Scheme operation	Yes / No*
Description of the fail-safe functionality (Interruption of sensor signals, disconnection of load, loss of power, internal fault detection etc.) “Fail safe tests are not required at installations where all of the Generating Units are Type Tested SSEGs , with a Power Station Capacity of not more than 7.36kW per phase (i.e. 32A per phase at 230V) and an Export Capacity of not more than 3.68kW per phase (i.e. 16A per phase at 230V).	Yes / No*
Agreed Export Capacity as provided by the DNO	_____kW
Export Limitation Scheme export setting	_____kW
The Export Limitation Scheme has secure communication links between the various component parts of the Export Limitation Scheme as specified in section 5.1.3	Yes / No*

Commissioning Checks	
The Export Limitation Scheme is fail-safe and limits export if any of the discrete units or communication links that comprise the Export Limitation Scheme fail or lose their source of power. All components have been tested in line with section 7.	Yes / No*
When the Export Limitation Scheme operates it reduces the exported Active Power to a value that is equal to, or less than, the Agreed Export Capacity within 5s.	Yes / No*
A reverse power relay is fitted which will disconnect the generation if the export goes 5% above the Agreed Export Capacity for longer than 5s (not required for fail-safe LV metered connections).	Yes / N/A Setting _____kW Time _____Sec
On completion of commissioning, all settings are restored to normal operating values and password protected or sealed to prevent Customer access. A description of the scheme, its settings, and a single line diagram is displayed on site.	Yes / No*

* Circle as appropriate. If "No" is selected the **Power Station** is deemed to have failed the commissioning tests and the **Generating Units** shall not be put in service.

Additional Comments / Observations:

Insert here any additional tests which have been carried out

Declaration – to be completed by Generator or Generators Appointed Technical Representative.	
I declare that the Export Limiting Scheme and the installation comply with the requirements of this document and the additional commissioning checks noted above have been successfully completed in addition to those required by EREC G83 or G59	
Signature:	Date:
Position:	
Declaration – to be completed by DNO Witnessing Representative	
I confirm that I have witnessed the tests specified in this document on behalf of _____ and that the results are an accurate record of the tests.	
Signature:	Date:

This form should be appended to those provided in appendix 3 of EREC G83 or appendix 13.2 and 13.3 in EREC G59.

Description of the terms Power Generating Facility, Power Generating Module and Generating Unit.

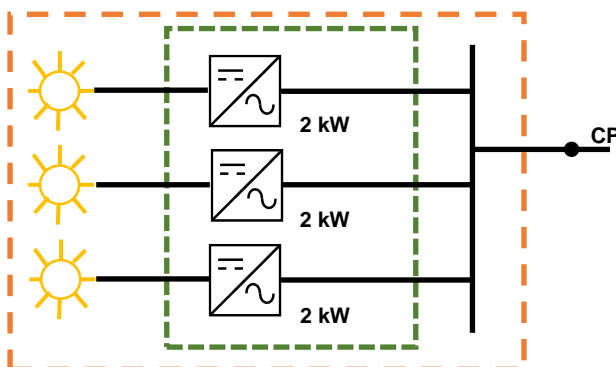
EREC G99 (and G98) uses the terms Power Generating Facility, Power Generating Module, and Generating Unit.

A Power Generating Facility is the formal legal term for whole installation. In general in the SGI processes we refer to Customer's Installation instead (mainly for compatibility with historic terminology in Great Britain).

A Generating Unit is the key component of a Power Generating Module. A Power Generating Module might consist of one or many Generating Units. A Power Generating Module is defined by the number and types of the Generating Units it is composed of. G99 requires compliance of the Power Generating Module, not of individual Generating Units. G99 does not specify how a Power Generating Module should be built up of Generating Units – just how the overall Power Generating Module behaves.

Therefore a Power Generating Module cannot really exist on its own – it only has legal meaning when commissioned and in service. If a new Generating Unit is added to an existing Power Generating Module, the old Power Generating Module ceases to exist and the new Power Generating Module is made up of the old and new Generating Units.

A single Generating Module cannot exist on its own in a Customer's Installation. Once it is commissioned it has become a Power Generating Module.



CP = Connection Point



Generating Unit

