

Stage 1 G98/NI micro-generation

Information and Commissioning pack for Single Installations

Version 1.2 April 2019

Introduction to Micro-generation

Micro-generation technologies such as solar panels, hydro, wind turbines and electricity storage devices can be used to generate your own electricity and export some of that electricity to the grid - commonly referred to as Micro-Generators. These micro-generators typically connect to the Northern Ireland Electricity Networks' (NIE Networks') electricity grid under the principles of Engineering Recommendation G98/NI

Typical schemes are:

- Single phase solar, hydro, wind or electricity storage technologies which generate up to a maximum of 3.68 kilowatts of electricity. These will typically be connected to domestic premises. An existing single phase connection must already be available.
- Three phase solar, hydro, wind or electricity storage technologies which generate up to a maximum of 11.04 kilowatts of electricity. These will typically be connected to a farm or small commercial premises. An existing three phase connection must already be available.

Connection Process

At NIE Networks, we are responsible for registering your installation and fitting an import/export meter to facilitate the measurement of electricity units exported to the grid.

Remember: you will not be able to benefit from exporting electricity back to the grid until the following process is complete:

1. You must inform NIE Networks when your generator is connected to the system- see Note 1
2. Your micro-generation has been registered by NIE Networks
3. Your electricity meter has been changed by NIE Networks to a meter capable of recording export
4. Your purchase contract is in place with your chosen electricity supplier

Note 1: In compliance with G98/NI you are required to notify NIE Networks that a connection has been made to the network. Please ensure you submit the online form at the address below, at or before making your connection. You then have 30 days to complete and return the required information.

www.nienetworks.co.uk/Connections/Generation-connections/Microgeneration

Note 2: All G98/NI connections are subject to:

- the installation not causing any operational difficulties for NIE Networks
- the installation not adversely affecting the quality of supply to either the connected party or any other customers

Your installer can advise further in relation to the issues above which are covered under 1.3 of G98/NI

How to commission your micro-generation

1. Commissioning of your micro-generation:

The installer must commission the system and fully complete and return the following forms and information to NIE Networks.

This information verifies that your micro-generator installation complies with Engineering Recommendation G98/NI and is suitable to be connected to the electricity grid:

- Micro-generator installation (G98/NI commissioning form) commissioning confirmation
- A schematic diagram (single line drawing) of the micro-generation scheme installed from the inverter to the meter
- Technical information on the type of micro generation installed
- Site Layout Plan showing location of micro-generator if required
- Manufacturer's reference number for the inverters used each time

All of this information should be returned: via the online application form at

www.nienetworks.co.uk/connections/micro-scale or in hard copy to:

Market Operations - SRU

NIE Networks

Pennybridge Industrial Estate,

Larne Road,

Ballymena, BT42 3HN

2. Changing your electricity meter:

Once we have received and checked all of the information above, we will arrange the installation of an import/export electricity meter (if required). An import/export meter records the electricity units being exported to the grid. Timescales for this process can vary and will be dependent on the volume of applications.

3. Agreeing your purchase contract:

You need to agree a purchase contract with an electricity supplier to sell your exported electricity units. [NB. You may have two electricity suppliers – you may buy electricity from one supplier and sell or export electricity to another supplier].

NIE Networks has no involvement in the purchase contract agreement – your chosen export electricity supplier will provide this information. It is your responsibility to provide export meter readings to your export supplier.

For more information on electricity suppliers operating in Northern Ireland, you may wish to consult the [Utility Regulator \(www.uregni.gov.uk\)](http://www.uregni.gov.uk) or the Consumer Council for Northern Ireland (www.consumercouncil.org.uk).

G98/NI Stage 1 Commissioning Confirmation Form

ENGINEERING RECOMMENDATION G98/NI

Micro-Generator Installation

(Up to 3.68 kW single phase and up to 11.04kW three phase)

Confirmation of commissioning of a Micro-Generator connected in parallel with NIE Networks' Distribution Network in accordance with Engineering Recommendation G98/NI.

Please complete and provide this document for each premises, once **Micro-generator** installation is complete.

Customer Details:	
Customer (name)	
Address	
Post Code	
Contact person (if different from Customer)	
Telephone number	
E-mail address	
Installer Details:	
Installer	
Accreditation / Qualification	
Address	
Post Code	
Contact person	
Telephone Number	
E-mail address	
Installer signature	
Installation details	
Address	
Post Code	

MPRN(s)	
Location within Customer's Installation	
Location of Lockable Isolation Switch	
Details of Micro-generators – complete as applicable if multiple Micro-generators will exist within one premises. Use a separate line for new and existing installations and for different technology type.	

Manufacturer	Date of Installation	Primary Energy source Please enter code from table below	Inverter Manufacturer's Ref No (this number should be registered on the ENA Type Test Verification Report Register as Product ID)	Micro-generator Registered Capacity in kW				
				Single Phase Units	3-Phase Units			Power Factor
					PH1	PH2	PH3	

Declaration – to be completed by Installer for Micro-generators Tested to EREC G98/NI

I declare that the relevant **Micro-generators** and the installation which together form a **Micro-generating Plant** within the scope of EREC G98/NI at the above address, conform to the requirements of EREC G98/NI. This declaration of compliance is confined to **Micro-generating Plant** tested to EREC G98/NI or EREC G83 as applicable at the time of commissioning.

Signature:

Date:

Primary Energy Source	Code	Primary Energy Source	Code
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Solar PV	1	Wind	2
Hydro (run of river)	3	Hydro (reservoir)	4
Biomass	5	Other renewable	6
Fossil gas	7	Waste	8
Fossil coal gas	9	Fossil oil	10
Fossil oil shale	11	Fossil peat	12
Geothermal	13	Fossil brown coal / lignite	14
Fossil hard coal	15	Hydro pumped storage	16
Marine	17	Nuclear	18
Offshore wind	19	Other	20
Other – battery storage	21	Other – storage not battery	22

Information to be Enclosed	
Final copy of circuit diagram	
Micro-generator Type Test Certificate (if not already provided e.g. under a Stage 2 Connection)	
Computer print out (where possible) or other schedule of protection settings	
Electricity meter(s) make and model:	

Please send completed forms to:

Market Operations - SRU

NIE Networks

Pennybridge Industrial Estate,

Larne Road,

Ballymena, BT42 3HN