

On completion of this form, please return to Counties Power Ltd by post or to distributedgeneration@countiespower.com

Please complete this application if you are planning to install a solar, or other distributed generation device over 10 kW on the Counties Power network.

1. APPLICATION TYPE

- New connection - In addition to this form, you also need to complete the New Connections application form
- Upgrade to an Existing connection - **If this application is for an existing connection, please enter your unique ICP number below:**

ICP NUMBER

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2. SITE DETAILS *This refers to the site where the distributed generation is to be installed*

Site address _____
City _____ Postcode _____
DPS _____ Lot No _____
Other identifying remarks _____

Please state what this site will be used for

- Dwelling Commercial Industrial Pump Other _____

3. DISTRIBUTED GENERATOR DETAILS *This is the party who owns and is responsible for the distributed generation installation*

Full Legal Name _____
Contact Name _____
Email address _____ Contact phone _____
Physical address _____
City _____ Postcode _____
Postal address _____
City _____ Postcode _____
 Individual / Couple Company Other legal entity – specify _____

4. DISTRIBUTED GENERATION SYSTEM INSTALLER

Full Legal Name _____
Company _____ Contact Name _____
Email address _____ Contact phone _____
Physical address _____
City _____ Postcode _____
Postal address _____
City _____ Postcode _____

5. DISTRIBUTED GENERATION TYPE / FUEL TYPE

- Solar Gas turbine Steam turbine Fuel cell Wind turbine Micro hydro
- Liquid Fuel Other, please specify _____

6. INVERTER SPECIFICATION

Manufacturer / supplier _____

Model Number _____ Rated capacity (kW) _____

If inverter used, is it AS4777 compliant? Yes No

TECHNICAL INFORMATION FOR DISTRIBUTED GENERATION

Data required for each distributed generation system

Data required for range of power output	10-100 kVA	100-750 kVA	> 750 kVA
Type of generation unit – synchronous, asynchronous, etc.	✓	✓	✓
Type of prime mover	✓	✓	✓
Rated terminal voltage (kV)	✓	✓	✓
Rated generation capacity (kVA)	✓	✓	✓
Rated minimum power factors (both over and under excited) at rated kVA		✓	✓
Maximum continuous active power generated (kW)	✓	✓	✓
Maximum short term active power generated (kW)		✓	✓
For asynchronous generations, reactive power requirements (kVAr)	✓	✓	NA
Anticipated operating regime e.g. continuous, intermittent, peak lopping	✓	✓	✓
Method of voltage control	✓	✓	✓
Generation transformer details, if applicable			✓

Interface arrangements

Data required for range of power output	10-100 kVA	100-750 kVA	> 750 kVA
The means of connection and disconnection	✓	✓	✓
The means of synchronisation between the distribution network and the distributed generation	✓	✓	✓
Generation neutral earthing arrangements			✓
Single line diagram for installation detailing circuit breakers, base loads and generation capabilities	✓	✓	✓

Interface arrangements

Data required for range of power output	10-100 kVA	100-750 kVA	> 750 kVA
Lowest frequency at which the distributed generation can run			✓
Actual low frequency trip setting and time delay	✓	✓	✓
Actual over frequency trip setting and time delay	✓	✓	✓
Minimum operating power			✓
Generation kW/kVAr capability charts (at lower voltage terminals at nominal and ±10% of nominal voltage) at:			
(a) maximum short term power			✓
(b) maximum continuous power		✓	✓
(c) 75% output			✓
(d) 50% output			✓
(e) minimum power			✓
Auxiliary power requirements at:			

Interface arrangements

Data required for range of power output	10-100 kVA	100-750 kVA	> 750 kVA
(a) rated power output			✓
(b) minimum power output			✓
(c) start up			✓
Start up times to minimum operating power:			
(a) from cold			✓
(b) from warm			✓
(c) from hot			✓
Normal ramp rate			✓
Time for cold start to full rated output		✓	✓
Inertia constant (seconds) (whole machine)			
Stator resistance			✓
Direct axis synchronous reactance			✓
Quadrature axis synchronous reactance			✓
Direct axis transient reactance			✓
Quadrature axis transient reactance			✓
Direct axis sub transient reactance			✓
Quadrature axis sub transient reactance			✓
Leakage (positive sequence) reactance			✓
Negative sequence reactance			✓
Zero sequence reactance			✓
Earthing resistance/reactance			✓
Time constants:			
(a) direct axis transient open circuit			✓
(b) quadrature axis transient open circuit			✓
(c) direct axis sub transient open circuit			✓
(d) quadrature axis sub transient open circuit			✓
Generation transformer details (impedance, tap changer, vector group, earthing, maximum overvoltage capability at rated frequency etc.)			✓
Type of excitation system (block diagram/specifications, forward/feedback gains/time constants and limits)		✓	✓
Speed governor and prime mover data (detailed functional description of governing system with all subsystems including system control and turbine time)		✓	✓

Protection Requirements	10-100 kVA	100-750 kVA	> 750 kVA
Generation circuit breaker	✓	✓	✓
Dedicated transformer			✓
Disconnect/isolate switch	✓	✓	✓
Over-voltage protection	✓	✓	✓
Under-voltage protection	✓	✓	✓
Over-frequency protection	✓	✓	✓
Under-frequency protection	✓	✓	✓
Earth-fault protection		✓	✓
Over-current voltage restraint protection			✓
Neutral voltage displacement protection	✓	✓	✓
Synchronisation	✓	✓	✓
Loss of network supply	✓	✓	✓
Power factor or voltage regulation equipment		✓	✓

7. OTHER DETAILS *Specify any other information or special terms that are or may be relevant to this application*

8. DISTRIBUTED GENERATION DECLARATION

As the legal owner and distributed generator, we hereby request to connect a distributed generator device over 10kW to Counties Power Limited's electricity network.

We confirm that the information submitted within this application is accurate and correct.

We hereby agree to comply with all requirements of a distributed generator as required under Part 6 of the Electricity Industry Participation Code 2010.

We confirm that we will inform Counties Power of any future changes to the distributed generation installation. We confirm that we will comply with all safety requirements as required by a distributed generator.

We confirm that we are aware of our responsibility to arrange for the installation to be tested and inspected, prior to connection.

We hereby accept all charges in relation to processing this distributed generation application form.

This document must be signed by the party that seeks to become the distributed generator. Third parties are not permitted to sign this document on behalf.

Distributed generator name _____

Distributed generator signature _____ Date _____

COUNTIES POWER OFFICE USE ONLY

SO No _____ GXP _____

ICP _____ Pillar/Pole _____

TX _____ Tech assessment _____

Date Received _____