

# G59 Application for connection of generation plant to distribution networks

Preferred methods of communication:  Phone  SMS  Email  Post

Have you applied for a connection in our area before?  Yes  No

Please tick an appropriate box below to indicate the type of quote required:

Please select only one of these options

Budget Estimate

Feasibility Study

Connection Offer

Gen +

Example relates to firm connection (PV generation)

Also indicate the type of supply required:

Please select only one of these options

New connection

Generation at existing premises

Point of Connection for an ICP

Point of Connection for an IDNO

If the generation is to be operated at existing premises please confirm the MPAN number below:

1	6																		
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Required for existing supplies and can be found on your supplier bill

Signed: \_\_\_\_\_

Print Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Date: \_\_\_\_\_

Notes on the type of quote:

## Budget estimate

This is an indication of the charge for providing the connection / parallel generation capability. The assessment is carried out as a desk top exercise without site specific considerations being taken into account. You should note that the estimate may vary from any further budget estimates or the price in any formal Connection Offer. A budget estimate is not a formal offer for connection and cannot be accepted by you. For a budget estimate it is only necessary to complete part 1 of the application form. There is no charge for a budget estimate.

## Feasibility study

This is an indication of the charge for providing the connection / parallel generation capability. We do not carry out any detailed site specific design work and the assessment is carried out as a desk top exercise. A technical study is carried out but there may be additional costs associated with on-site practicalities that will only become apparent when we carry out a site survey. A feasibility study therefore is not a formal offer for connection and cannot be accepted by you. We require payment in advance for the technical study.

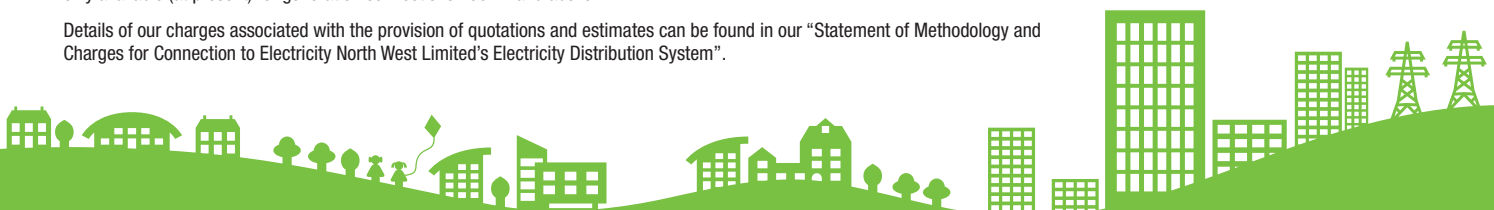
## Connection Offer

This is a formal written offer to provide connection to Electricity North West Ltd's distribution system. The offer will set out the terms and connection charge for making the connection. The offer may be accepted in accordance with our terms at any time within the validity period of the offer providing it is not or does not become an interactive connection offer. To provide a Connection Offer you will need to provide full generator and associated technical specifications as outlined in the attached application form.

## Gen +

This is an indication of the cost for the connection / parallel capability of the generator including the point of connection and will be provided within 30 working days. If you decide the project is commercially viable you will have an opportunity to proceed to a formal connection offer. If you confirm your intention to progress to a full connection offer within 7 working days on receipt of the Gen+ offer, we will honour your original application received date for time to quote and to determine your place in the 'interactivity queue' if appropriate. This option is only available (at present) for generation connections 200kW and above.

Details of our charges associated with the provision of quotations and estimates can be found in our "Statement of Methodology and Charges for Connection to Electricity North West Limited's Electricity Distribution System".



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Bringing energy to your door

## Part 1a

Occasionally we carry out research to find out how we can improve our customer service.

Please tick here if you consent for us to disclose your personal data to third party organisations so that they can undertake research on our behalf.

### Applicant Details

Company name

Company registration number

Postal address

Post Code

Contact name

Email address

Telephone number

Fax number

### Consultant's details

Consultant's name

Postal address

Post Code

Contact name

Email address

Telephone number

Fax number

### Power station location and operation

Power station name should be a reference that you should recognise as the site where your generator will be located

Power station name

Postal address or site boundary plan 1:500

Post Code

Details of any existing generation / supplies

Target date for provision of connection / commissioning of power station

Connection Point (OS grid ref or description)

Preferred connection point voltage (in volts) V

Single line diagram of any on-site existing or proposed electrical plant or, where available, operation diagrams: Please attach

What security is required for the connection? (see note A1)

No. of generation sets in power station

Are all generation sets of same design/rating?  Yes  No

Will power station operate in island mode?  Yes  No

Will generation plant supply electricity to on-site premises?  Yes  No

If NO, please complete Part 1b for each genset.

Answer depending on your chosen generator type - our example is modelled on PV which cannot operate in island mode





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## Part 1b

### Generation set general data

Number of generation sets to which this data applies (if only one, please state)

Type of generation set (please tick box)  Synchronous generator  Fixed speed induction generator  Double fed induction generator  
 Series converter / inverter connected generator  Other (provide details)

Type of prime mover (e.g. gas, solar, hydro, wind)

Operating regime (see note B1) (please tick box)  Intermittent  Non-Intermittent

This will depend on your generation. Our example is PV which is intermittent

### Generation set Active Power capability

Rated terminal voltage (generator) V

Rated terminal current (generator) A

Generation set registered capacity (net) KW

Generation set apparent power rating (to be used as base for generator parameters) KVA

Generation set rated active power (gross at generator terminals) KW

### Generation set Reactive Power capability at rated Active Power (gross at generator terminals)

Reactive power is dependent on the operating Power factor. We reserve the right to specify the Power factor

Maximum reactive power export (lagging) KVAr

Maximum reactive power import (leading) KVAr

### Generation set Fault Current Contribution (see note B2)

LV as per Fault current section part 1a

Peak asymmetrical short circuit current at 10ms (ip) for a 3 short circuit fault at the generation set terminals kA

RMS value of the initial symmetrical short circuit current (Ik'') for a 3 short circuit fault at the generation set terminals kA

RMS value of the symmetrical short circuit current at 100ms (Ik(100)) for a 3 short circuit fault at the generation set terminals kA

### Notes

Note B1 Intermittent and Non-intermittent Generation is defined in Engineering Recommendation P2/6 as follows: Intermittent Generation: Generation plant where the energy source for the prime mover can not be made available on demand. Non-intermittent Generation: Generation plant where the energy source for the prime mover can be made available on demand.

Note B2 See Engineering Recommendation G74, ETR 120 and IEC 60909 for guidance on fault current data. Additionally, fault current contribution data may be provided in the form of detailed graphs, waveforms and/or tables.

On completion, the application form and plans should be sent to:  
Energy Solutions, Electricity North West, Frederick Road, Salford, M6 6QH  
or email to [connectionapplications@enwl.co.uk](mailto:connectionapplications@enwl.co.uk)  
[www.enwl.co.uk](http://www.enwl.co.uk)

