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? 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 Example relates to firm connection (PV generation) Connection Offer Gen + 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: Required for existing supplies and can be 1 6 found on your supplier bill Signed: **Print Name:**

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 **Fmail address** Contact name Fax number Telephone number Power station name should be a reference that you should recognise **Power station location and operation** 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) 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 Yes Yes □ No Are all generation sets of same design/rating? Answer depending on your Yes ☐ No Will power station operate in island mode? chosen generator type - our Yes ☐ No Will generation plant supply electricity to on-site premises? example is modelled on PV which cannot operate in island mode If NO, please complete Part 1b for each genset.



Part 1a cont.

This depends on the site; if there is existing buildings or businesses the import will reflect what they use. If the site has no existing buildings then there will be no import

Powers	station standby import requirements (see note A2)	Power station top-up import requirements (see note A3)				
Maximum	active power import KW	Maximum active power import KW				
Maximum	reactive power import (lagging) KVAr	Maximum reactive power import (lagging) KVA				
Maximum	reactive power export (leading) KVAr	Maximum reactive power export (leading) KVA				
Powers	station export requirements (see note A4): Total power station o	utput at registered capacity (net of auxiliary loads)				
Registered	capacity (maximum export capacity (mec))	KV				
Maximum	reactive power export (lagging)	KVA				
Maximum	reactive power export (leading)	KVA				
Power s	station maximum fault current contribution (see note A5)					
Peak asym	metrical short circuit current at 10ms (ip) for a 3φ short circuit fault at the co	nnection point k/				
means	the fault level of your generation at the po	int ction point k				
	connect to our HV system (the metered ex					
	can be provided after acceptance.	These are in LV to match Part 1b				
Powers	station interface arrangements (see note A6)	mese are in Ly to match Part 10				
Notes						
Note A1	The DNO will assume a single circuit connection to the power station is re (a) single circuit connection (b) manually switched alternative connection (c) automatic switched alternative connection (d) firm connection (secure for first circuit outage)	quired unless otherwise stated. Options include:				
Note A2	This section relates to operating conditions when the power station is importing active power, typically when it is not generating. The maximum active power import requirement and the associated maximum reactive power import and/or export requirements should be stated.					
Note A3	This section relates to operating conditions when the power station is importing active power, typically when it is generating, but is not generating sufficient power to cater for all the on-site demand.					
Note A4	This section relates to operating conditions when the power station is exporting active power. The active power export and associated maximum reactive power export and/or import should be stated for operation at registered capacity.					
Note A5		nce on fault current data. Additionally, fault current contribution data may be provided need not be provided where detailed fault level contribution / impedance data is m				
Note A6	The interface arrangements need to be agreed and implemented between DPC7.3.1 of the Distribution Code refers.	the User and DNO before energisation.				
24.						

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Part 1b

Generati	on set general data							
Number of	generation sets to which this data appli	es (if only one, please	state)					
Type of gen	eration set (please tick box)	Synchronous ge	nerator	eed induction generator 🔲 [Double fed induction gener	ator		
		Series converter	/ inverter connected ge	enerator	tails)			
Type of prin	ne mover (e.g. gas, solar, hydro, wind)							
Operating re	egime (see note B1) (please tick box)	☐ Intermittent	☐ Non-Intermittent	This will depend of	n vour genera	tion		
				Our example is P				
Generati	on set Active Power capability							
Rated termi	inal voltage (generator)					V		
Rated termi	inal current (generator)					Α		
Generation	set registered capacity (net)					KW		
Generation	set apparent power rating (to be used a	as base for generator p	arameters)			KVA		
Generation	set rated active power (gross at genera	tor terminals)				KW		
0	Control Brown Brown Control	at a table at the Ball		e power is depend	•	_		
	on set Reactive Power capability	at rated Active Pov	ver (gro <mark>tactor. V</mark>	ve reserve the rigr	nt to specify the			
Maximum r	eactive power export (lagging).					KVAr		
Maximum r	eactive power import (leading).				LV as per F	KVAr		
Gonorati	on set Fault Current Contribution	(see note R2)			current sect			
						kA		
Peak asymmetrical short circuit current at 10ms (ip) for a 3 short circuit fault at the generation set terminals								
	of the initial symmetrical short circuit c					kA		
RMS value	of the symmetrical short circuit current	at 100ms (lk(100)) for	a 3φ short circuit fault	at the generation set terminals		kA		
Notes								
Note B1	lntermittent 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 www.enwl.co.uk

