



**POINT OF CONNECTION
FOR INDEPENDENT
PROVIDERS
APPLICATION FORM**

Please submit your completed application form to:

**Northern Powergrid, Connections Input Services
98 Aketon Road, Castleford, West Yorkshire, WF10 5DS**

If you need any help to complete this form please contact us

cinc.connections@northernpowergrid.com

0113 241 5245

Opening hours:

Monday - Friday

9:00am - 5:00pm

If you need an assistance completing this form, please refer to the Help and Information guidance at the back of this form or call us on 0113 241 5245.

SECTION 1

YOUR DETAILS

* Signifies a mandatory field

Name *

Address *

Email *

Phone *

Postcode

SECTION 2

YOUR CONNECTION

2a. How do you want us to refer to your project? E.g. Project 123

2b. Site Address - If different to above

Postcode

2c. How many connections do you plan to install?

2d. What is the total load required for your point of connection?

 kVA

2e. Do you need a temporary connection?

 No Yes - Temporary load kVA

2f. Please provide details of which company will be adopting the electrical network after installation

SECTION 3

WHAT ELECTRICAL EQUIPMENT ARE YOU CONNECTING?

3a. Will you be installing any electric heating - including electric showers, water heaters and electric heaters?

Yes No - Go to question 3b

Please provide the total load for each premises for any electrical heating you plan on installing.

Type	No. of	Load (kW)
Electric shower	<input type="text"/>	<input type="text"/> kW
Water heaters	<input type="text"/>	<input type="text"/> kW
Storage heaters	<input type="text"/>	<input type="text"/> kW

3b. Will you be installing any ground source heat pumps - including those used for underfloor heating?

If the equipment your installer is using does not comply with BS-EN 61000/3/2 and 61000/3/3 they will need to provide us with the harmonic information for the ground source heat pump. Failure to provide this information may result in delay to your quotation.

Yes No - Go to question 3c

How many pumps do you plan to install?

Details

• Pump 1

Phase	Starting Current (amps)	Rating (kW)	Make and Model
<input type="checkbox"/> Single <input type="checkbox"/> Three Phase	<input type="text"/>	<input type="text"/>	<input type="text"/>

Does the ground source heat pump comply with BS-EN 61000/3/2 and BS-EN61000/3/3? Yes No

• Pump 2

Phase	Starting Current (amps)	Rating (kW)	Make and Model
<input type="checkbox"/> Single <input type="checkbox"/> Three Phase	<input type="text"/>	<input type="text"/>	<input type="text"/>

Does the ground source heat pump comply with BS-EN 61000/3/2 and BS-EN61000/3/3? Yes No

• Pump 3

Phase	Starting Current (amps)	Rating (kW)	Make and Model
<input type="checkbox"/> Single <input type="checkbox"/> Three Phase	<input type="text"/>	<input type="text"/>	<input type="text"/>

Does the ground source heat pump comply with BS-EN 61000/3/2 and BS-EN61000/3/3? Yes No

3c. Will you be installing any air source heat pumps - including those used for underfloor heating or warm air systems?

If the equipment your installer is using does not comply with BS-EN 61000/3/2 and 61000/3/3 they will need to provide us with the harmonic information for the air source heat pump. Failure to provide this information may result in delay to your quotation.

Yes
 No - Go to question 3d

How many pumps do you plan to install?

Details

• Pump 1

Phase	Starting Current (amps)	Rating (kW)	Make and Model
<input type="checkbox"/> Single <input type="checkbox"/> Three Phase	<input type="text"/>	<input type="text"/>	<input type="text"/>

Does the air source heat pump comply with BS-EN 61000/3/2 and BS-EN61000/3/3? Yes No

• Pump 2

Phase	Starting Current (amps)	Rating (kW)	Make and Model
<input type="checkbox"/> Single <input type="checkbox"/> Three Phase	<input type="text"/>	<input type="text"/>	<input type="text"/>

Does the air source heat pump comply with BS-EN 61000/3/2 and BS-EN61000/3/3? Yes No

• Pump3

Phase	Starting Current (amps)	Rating (kW)	Make and Model
<input type="checkbox"/> Single <input type="checkbox"/> Three Phase	<input type="text"/>	<input type="text"/>	<input type="text"/>

Does the air source heat pump comply with BS-EN 61000/3/2 and BS-EN61000/3/3? Yes No

3d. Will you be installing any motors - including those used for compressor driven air conditioners?

Examples of equipment with motors include: swimming pools, lifts, industrial fans, blowers and pumps, machine tools and large power tools. We do not need to know about household appliances like a fridge freezer, washing machine and tumble dryer.

Yes

 No - Go to question 3e

How many motors do you want to install?

Details - Tell us about the first two connections only

• **Motor 1**

Phase	Type			
<input type="checkbox"/> Single <input type="checkbox"/> Three Phase	<input type="checkbox"/> Soft Start <input type="checkbox"/> Direct on line <input type="checkbox"/> Star Delta			
Starting Current (amps)	Rating (kW)		Does this motor start more than once an hour?	<input type="checkbox"/> Yes

• **Motor 2**

Phase	Type			
<input type="checkbox"/> Single <input type="checkbox"/> Three Phase	<input type="checkbox"/> Soft Start <input type="checkbox"/> Direct on line <input type="checkbox"/> Star Delta			
Starting Current (amps)	Rating (kW)		Does this motor start more than once an hour?	<input type="checkbox"/> Yes

3e. Are you connecting any motors to your temporary supply?

Yes

 No - Go to question 3f

How many motors do you want to connect to your temporary supply ?

Details - Tell us about the first two connections only

• **Motor 1**

Phase	Type			
<input type="checkbox"/> Single <input type="checkbox"/> Three Phase	<input type="checkbox"/> Soft Start <input type="checkbox"/> Direct on line <input type="checkbox"/> Star Delta			
Starting Current (amps)	Rating (kW)		Does this motor start more than once an hour?	<input type="checkbox"/> Yes

• **Motor 2**

Phase	Type			
<input type="checkbox"/> Single <input type="checkbox"/> Three Phase	<input type="checkbox"/> Soft Start <input type="checkbox"/> Direct on line <input type="checkbox"/> Star Delta			
Starting Current (amps)	Rating (kW)		Does this motor start more than once an hour?	<input type="checkbox"/> Yes

3f. Will you be installing any welders?

Types of welders include: MIG, TIG, plasma cutters, stud welders, machine tools and large power tools.

Yes No - Go to question 3g

How many welders do you plan to install?

Details

• **Welder 1**

Input Voltage (volts)	Rating (kW)	Welds per minute	Phase	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Single	<input type="checkbox"/> Three Phase

• **Welder 2**

Input Voltage (volts)	Rating (kW)	Welds per minute	Phase	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Single	<input type="checkbox"/> Three Phase

• **Welder 3**

Input Voltage (volts)	Rating (kW)	Welds per minute	Phase	
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="checkbox"/> Single	<input type="checkbox"/> Three Phase

3g. Will you be installing any equipment causing distortion?

Examples of equipment which could cause distortion include: uninterrupted power supplies, computer power units, discharge lighting, battery chargers, DC motor control.

Yes No - Go to Section 4 - 'Existing Generation'

Please provide details of the equipment that will effect the harmonics of your supply

Please note your equipment must be G5/4 compliant.

Please include any plans or documentation with this form.

3h. Please provide a summary of any unspecified or unusual electrical equipment you're intending to install?

SECTION 4

EXISTING GENERATION

4a. Does this site already have generation connected?

Yes No - Go to **Section 5 - 'New Generation'**

For this generation what is the:

Max Export (kW)	Rated Current (amps)	Rated Voltage (volts)	Type of generation
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

SECTION 5

NEW GENERATION

5a. Do you plan on installing any new generation?

Yes No - Go to **Section 6 - 'Your Site Plans'**

5b. Will your generation create more than 50 kilowatts of power per premises - including existing generation?

Yes - continue to question 5d No

5c. Is this generation for standby purposes?*

Yes † No - Go to question 5d

† If the generation you are installing is available as a back up or an alternative to the Northern Powergrid supply then it should not be connected in parallel. If the generation is for standby purposes only then you must install equipment to ensure that the generation plant cannot be connected in parallel to a Northern Powergrid system in accordance with **ESQC** regulation 21 and The Requirements for Electrical Installations, **BS7671**.

5d. Will your generation run for more than 5 minutes per month?

Yes - Go to question 5e No - Go to **Section 6 - 'Your Site Plans'** †

† If the total period of parallel operation is less than 5 minutes in any given month, and is for generation plant testing purposes only, the requirements for interface protection may be relaxed. We will provide details of the protection required as part of your formal quotation.

5e. Would you like to apply in megawatts or kilowatts?

MW KW

Please tell us about the generator sets that you intend to install. If you are installing multiple generator sets which differ in type or size, simply duplicate this page and provide details per generator set.

5f. How many generator sets are you installing?

Are all the generator sets the same size?

Yes

No - provide details per generator set

5g. Which type of generator set are you planning to install?

Generation type

Generation set #

e.g. Photovoltaic (PV) panels. | Hydro - including water wheels, underground hydroelectric plant. | Wind turbines - including small garden turbines. | Biomass - including wood, slurry and biofuel burners. | Combined Heat & Power (CHP) - including gas turbines.

5h. What type of generation set will this be?

Synchronous generator

Series converter / inverter connected generator

Fixed speed induction generator

Other / I don't know *please specify

Double fed induction generator

Please complete one of the following:

What is the sub-transient (X''_d) - unsaturated / saturated? (Per unit)

What is the maximum fault level contribution? (MVA)

Generation set Active Power capability

Rated terminal voltage (generator) (volts)

Rated terminal current (generator) (amps)

Generation set registered capacity (net) (MW/kW)

What will be the maximum active power export? (MW/kW)

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

Generation set rated active power (gross at generator terminals) (MW/kW)

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

Max reactive power export (lagging) (MVAr)

Max reactive power import (leading) (MVAr)

5i. What security is required for your connection?

<input type="checkbox"/> Single circuit connection	<input type="checkbox"/> Manually switched alternative connection
<input type="checkbox"/> Automatically switched alternative connection	<input type="checkbox"/> Firm connection (secure for first circuit outage)

5j. Will the generation plant supply the electricity to on-site premises?

Yes No

5k. What will be the maximum active power import (kW)?

5l. Please provide us with your on-site operational diagrams.

5m. Are you installing an interface transformer?

Yes No

If yes, for this transformer, what will be the:

Rated (apparent) power (MVA)	<input type="text"/>	Maximum ratio tap (%)	<input type="text"/>
Rated voltage ratio (on principal tap) (kV/kV)	<input type="text"/>	Minimum ratio tap (%)	<input type="text"/>
Positive sequence resistance (per unit)	<input type="text"/>	Method of voltage control	<input type="text"/>
Positive sequence reactants at principal tap (per unit)	<input type="text"/>		

5n. Do you require an export Meter Point Administration Number (MPAN)?

Yes No Don't know

5o. Do you require an import MPAN?

Yes No Don't know

SECTION 6
SITE PLANS

The plan you include must clearly indicate your site boundary and proposed meter position, it should be on an ordnance survey or land registry background. Failure to provide a site location plan and builder/developers plans may result in a delay to your quotation.

If you do not have a plan, please contact us on **0113 241 5245** and we will email you one that you can mark up with your boundary and meter positions.

SECTION 7
YOUR CONNECTION DATE

7a. When would you ideally like this connection to be made? *

7b. When do you anticipate completing the works on-site? *

All works shall start and finish within reasonable time scales, suspension of works at your request may mean we have to provide you with a revised quotation.

SECTION 8
SITE INFORMATION

8a. Is the site classed as a 'site of specific interest' or listed under any other classification e.g. Historical site, conservation area, listed building?

Yes - provide details below

No

Don't know

8b. Are there any trees or hedges on the site that are protected by preservation orders?

Yes - provide details below

No

Don't know

8c. Are there any existing water courses, culverts or drainage ditches on or adjacent to the site?

Yes - provide details below

No

Don't know

8d. Does the site contain any substances hazardous to health of the environment e.g. Asbestos, Hydrocarbons?

Yes - provide details below

No

Don't know

8e. What is the likelihood of flooding from rivers and the sea on your development?

Low Medium High

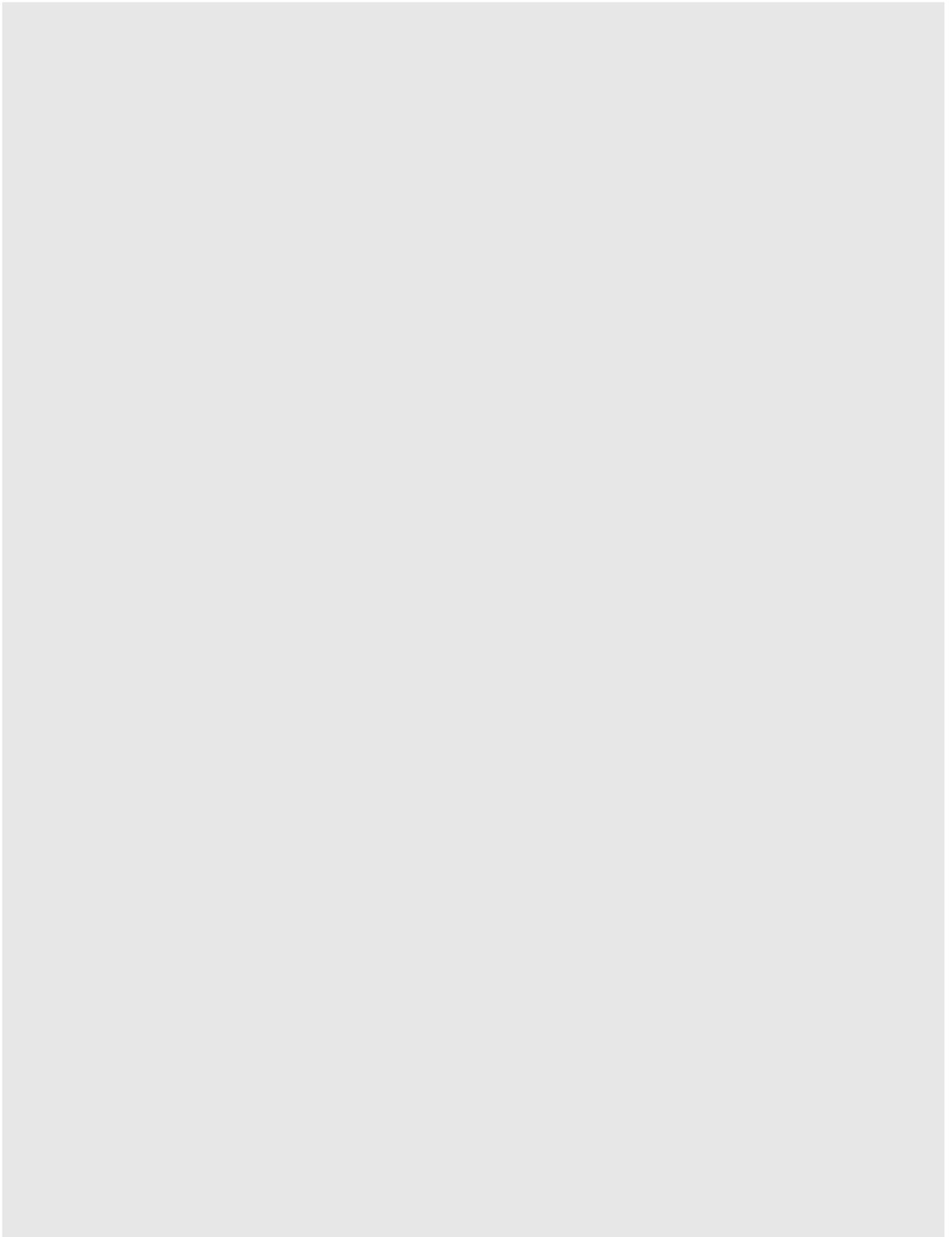
Further information can be found on the environment agency website
<http://www.environment-agency.org.uk/homeandleisure/floods/>

8f. Do you require us to do any on-site digging or excavation?

Yes No Don't know

8g. Please provide any other details you feel are relevant to your application

Other details continued...



SECTION 9
ADDITIONAL INFORMATION

9a. If we have a query about the information you have provided, how would you like us to contact you?*

Email Telephone

9b. How would you prefer to receive your quotation information?*

Email Post Both

9c. This application is for:*

Budget Cost* Quotation**

* If you have been unable to provide us with all the relevant information and you are not ready to accept a quote and proceed with the work on site then apply for a budget cost.

** If you have completed all the sections that are relevant to your application and are ready to accept the quote and proceed with the work on site then apply for a quotation.

SECTION 10
SIGNATURE

Signature of applicant *

Date *

Print name *

Position in company - *if applicable*

Data Protection

We will use the details you provide to process your connection request and to monitor the service we provide. Your details will be kept securely and will not be used for marketing purposes. We have an obligation to provide the results of customer satisfaction surveys on the services we provide to Ofgem, the electricity industry regulator. Therefore you may be contacted by our appointed Market Research Company to complete a brief satisfaction survey of our service delivery performance.

If you do not wish to be contacted as part of these surveys please tick