

Guide to applying online



**CONNECTING LARGE
-SCALE GENERATION
(ABOVE 3.68kW)**

If you need any more help to complete this form, please contact us:
getconnected@northernpowergrid.com

0845 070 2703 Opening hours: Monday - Friday 8:00am - 8:00pm
Saturday 9:00am - 5:00pm

HELP WITH SECTION 1 LOGIN OR REGISTRATION

If you have used our online connections services before, please login using your email address and password.

Don't worry, if you have forgotten your password we can help you to reset it, just click on the 'forgotten your password' link.

If this is the first time you have applied online please register to create an online account.

HELP WITH SECTION 1a REGISTRATION

Please provide your full correspondence address including any street number and your full postcode. It is often easier to contact you by email or mobile phone. Please provide these details if you are happy for us to contact you via these methods.

HELP WITH SECTION 2 YOUR SITE ADDRESS

For each application, we will provide you with a unique Northern Powergrid reference number.

If you have multiple applications with us, you may want to provide a different reference for each. This will help with identifying each one if we need to discuss them with you.

If the site address is different to the address provided in section 1 then please provide us with the full address including street number and full postcode.

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CONNECTING LARGE -SCALE GENERATION (ABOVE 3.68kW)

HELP WITH SECTION 3 EXISTING GENERATION

If you already have any generation equipment installed at your property, i.e. PV cells, wind turbines, then we need to know. The connections process can change depending on the size of generation equipment installed.

HELP WITH SECTION 4 NEW GENERATION

If you are not installing any generation equipment, i.e. PV cells, wind turbines, then answer 'no' to the first question and then go to section 6 'your site plan'. If you are planning to install a generator, or multiple generators, we need the full technical details of the equipment and its location. The connections process can change depending on the size of generation equipment to be installed. We need you to provide:

- details of the type of generation you are installing (photovoltaic panels, wind turbines, hydro, biomass or combined heat and power);
- how many generator sets you are installing;
- the size and the max export;
- rated current and rated voltage of each set (you only need to populate this information once if all sets are the same size).

Please also provide a single line diagram of each proposed generation installation with your application.

HELP WITH SECTION 5 EQUIPMENT CAUSING HARMONIC DISTORTION

Some types of electronic equipment can cause harmonic currents that can cause a variety of problems that are sometimes difficult to attribute and eliminate. If your equipment is likely to cause harmonic distortion, we need details of the equipment .

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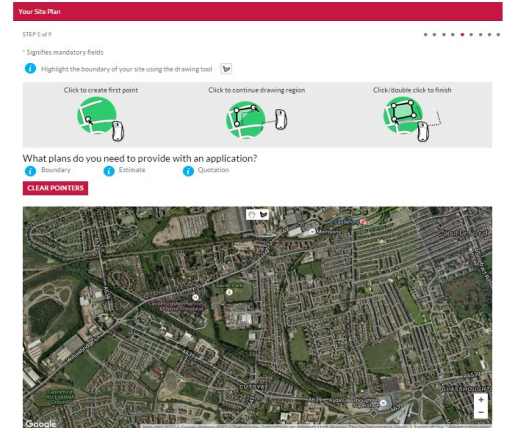
CONNECTING LARGE -SCALE GENERATION (ABOVE 3.68kW)

HELP WITH SECTION 6 YOUR SITE PLAN

For us to be able to provide you with an estimate you only need to provide us with a site location plan showing the site boundary/ownership, you can do this using our handy online mapping tool.

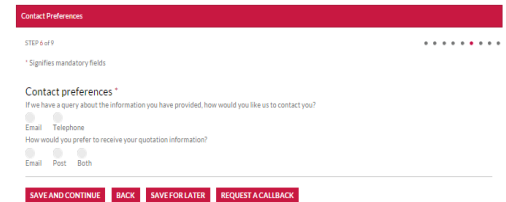
For us to be able to provide you with a quotation you will need to provide us with:

- a site location plan showing the site boundary
- a plan, at an appropriate scale (preferably scaled 1:500) which indicates the layout of buildings, roads and proposed metering points and for a larger site such as industrial units, then you may require a substation installed on your site, if you do we will contact you to request a plan showing the proposed location.



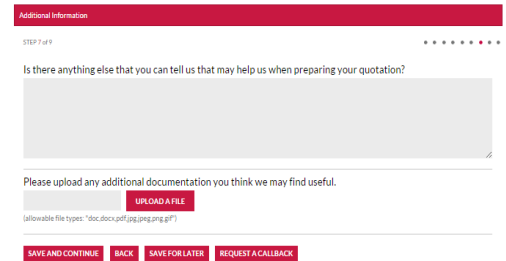
HELP WITH SECTION 7 CONTACT PREFERENCES

It is often easier to contact you by email or mobile phone, but it is your choice. Please tell us how you would like us to contact you if we have a query and how you would like to receive your quotation.



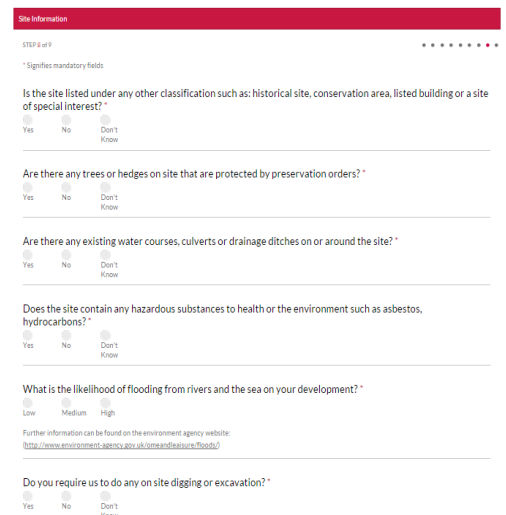
HELP WITH SECTION 8 ADDITIONAL INFORMATION

Please let us know if there anything else that you can tell us that may help us when preparing your quotation, and if you have additional documentation that may assist us then upload this here.

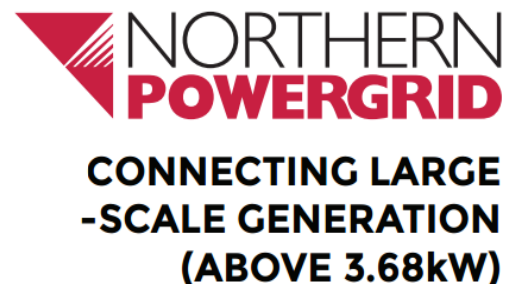


HELP WITH SECTION 9 SITE INFORMATION

The questions in this section will help us assess if there are any environmental issues that we will need to consider while completing your connection. We recognise that a proportion of our activities have an effect on the environment and we, are therefore, committed to complying with relevant environmental legislation, other important environmental obligations and a policy of pollution prevention.



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HELP WITH SECTION 10 Your connection date

Please provide us with the date you would like us to carry out your connection and the date you expect to complete the work on site. We will use these dates as a guide but we will contact you on acceptance of a quotation to arrange and confirm a suitable connection date.

Your Connection Date

STEP 9 of 9

* Signifies mandatory fields

If you submit your application today and have given us all the information we need we will guarantee to have your quotation to you by 13/04/2016 and if we don't we will pay you a fixed amount for every day we are late.

Since 03/08/2015 the average number of days to complete a quotation is 46 working days.

Our current average time from receiving your acceptance to completing your work is 15 weeks.

When you accept your quotation we will do our best to work with you and meet your timescales.

When would you ideally like your connection(s) to be made?*

When do you expect to complete the works on site?*

We aim to start and finish all works within reasonable timescales. Should you need to suspend the works at any time we may need to provide you with a revised quotation.

SAVE AND CONTINUE BACK SAVE FOR LATER REQUEST A CALLBACK

HELP WITH SECTION 11 Review and submit

Please check that all the information you have entered is correct. If you are happy with your answers then submit your application.

What happens next?

We will check your submission and contact you to confirm your requirements.

We will update your online account with the name and contact number of the designer who will prepare your quotation.

Visit your online account to track your application: <https://www.northernpowergrid.com/my-account>

Call us: **0845 070 2703** Opening hours: Monday - Friday 8:00am - 8:00pm Saturday 9:00am - 5:00pm

Further help and guidance

HELP AND GUIDANCE FOR SECTION 3 EXISTING GENERATION

How do I know if I already have generation connected?

If you have the following installed on your premises then you have existing generation:

- Wind turbines
- Solar panels (otherwise known as Photovoltaic or PV)
- Combined heat and power plants (CHP)

HELP AND GUIDANCE FOR SECTION 4 NEW GENERATION

How does this information help?

If you are planning to install a generator, or multiple generators, we will need the full technical details of the equipment and its location. The connections process can change depending on the size of generation equipment to be installed .

HELP AND GUIDANCE FOR SECTION 5 EQUIPMENT CAUSING HARMONIC DISTORTION

What equipment causes distortion?

Typical equipment that could cause a problem if you are installing large numbers of them: - Computers - Uninterrupted Power Supplies - Discharge Lighting (fluorescent, mercury, sodium, etc.) - Battery Chargers These types of electronic equipment cause harmonic currents which can cause a variety of problems that are sometimes difficult to attribute and eliminate. The heating effects of harmonic currents can cause destruction of equipment, conductors, and fires. The results can be unpredictable legal and financial ramifications. Voltage distortions can lead to overheating of equipment, electronic equipment failure, expensive downtime, and maintenance difficulties.

What is G5/4?

The G5/4 document was produced to protect electrical networks from VOLTAGE DISTORTION. It details the maximum levels of harmonic distortion that electricity consumers are permitted to export onto the distribution network. Therefore, consideration must be given to the regulatory requirements of ER G5/4 - 1 and the practical application of LV Harmonic mitigating equipment. The document forms part of the supply agreement between the Electricity Company and the consumer. Enforcement of the limits can include a refusal to supply your premises until it can be demonstrated that harmonic levels have been adequately addressed, which remains the responsibility of the consumer.

HELP AND GUIDANCE FOR SECTION 6 SITE PLANS

What plans must I send with my application?

Estimate

For an estimate you only need to provide us with a site location plan showing the site boundary, you can use an ordnance survey or a land registry plan. If you don't have a site plan we may have one on record, please contact our connections team on 0845 070 2703.

Quotation

For a quotation you need to provide us with a site location plan showing the site boundary, you can use an ordnance survey or a land registry plan. If you don't have a site plan we may have one on record, please contact our connections team on 0845 070 2703 A Plan, at an appropriate scale (preferably scaled 1:500) which indicates the layout of buildings, roads and proposed metering points and for a larger site such as industrial units, then you may require a substation installed on your site, if you do we will contact you to request a plan showing the proposed location.

HELP AND GUIDANCE FOR SECTION 9 SITE INFORMATION

Are you applying on behalf of someone else?

If you are not the owner or occupier of the premises; or an authorised supplier acting with the consent of the owner or occupier of the premises, then you are acting on behalf of somebody else. An example of this would be an electrician applying for their customer.