

Summary of the Long-Term Development Statement (Northeast)



Introduction

Northern Powergrid own and operate the electricity distribution network that provides power to customers in the North East, Yorkshire and north Lincolnshire. This network of 61,000 substations, 91,000km of overhead power lines and underground cables, distributes power from the National Grid system to the 3.9 million homes and businesses in our region. We operate as one company but we are regulated by the energy regulator, Ofgem (the Office of Gas and Electricity Markets), as two licensed businesses:

- Northern Powergrid (Northeast) plc; and
- Northern Powergrid (Yorkshire) plc.

The Northern Powergrid (Northeast) Long-Term Development Statement (LTDS) has been compiled in accordance with Standard Condition 25 of the Electricity Distribution Licence for the Northern Powergrid (Northeast) licence area. The LTDS and the supporting files contain network information to assist existing and future users of the network to assess opportunities for new or additional connections. The LTDS is reviewed each year and is made available to stakeholders before the end of November. There is an interim update made to a number of the data tables included within the LTDS; this update is made available to stakeholders before the end of May.

The benefits that the LTDS brings to our customers and stakeholders are that it:

- Improves the availability of information relating to the Northern Powergrid (Northeast) system;
- Furnishes developers with sufficient information to carry out initial assessments of system capability;
- Increases visibility of distribution system development proposals; and
- Informs customers and stakeholders of the correct points of contact within Northern Powergrid for specific enquiries relating to the LTDS.

The updates in this document relate to changes that have occurred since the last publication in the following areas:

- Detailed Information
 - Generation
 - Interest in a Connection
- Authorised System Development Proposals

Requesting Access to the LTDS

The Northern Powergrid (Northeast) LTDS can now be found on its dedicated feature page on our Open Data Portal via this [link](#). From here you can access our Network Map and view each Appendix. Alternatively if you want to download the LTDS in its entirety, please use this [webpage](#).

Contact Details

Any comments on the usability, quality or content of the statement would be welcomed, along with any suggestions for future improvements. Requests relating to the information contained in the statement should be addressed to opendata@northernpowergrid.com

Enquiries concerning new or modified connections can be progressed initially by visiting the Northern Powergrid Connections [webpage](#) and should be addressed to getconnected@northernpowergrid.com.

Contents of the LTDS

The LTDS provides:

- A general summary of our network design policies and principles;
- A geographic map detailing our 132kV and EHV systems;
- Schematic diagrams detailing the connectivity and normal operating configurations of our distribution system;
- Circuit data;
- Transformer data;
- Load information;
- Fault level information;
- Generation data;
- An outline of authorised system development proposals;
- The number of third-party enquiries received for a connection in the past 12

months;

- A look up table to enable Local Authorities to identify and assess the available capacity in their area; and
- The location and feeding area of each of our primary substations.

Recent enhancements to the LTDS

Geographic Maps

To allow stakeholders access to the geographic overview of the Northern Powergrid 132kV and EHV network topography and connectivity; we provide downloadable shapefiles and interactive map via this [link](#).

GIS Files

GIS readable MID/MIF files which can be viewed on your own system are available. These contain the network data files and relevant geographic backgrounds. These files are available in the data catalogue on our [Open Data Portal](#).

Interactive Map

An interactive map showing our EHV network, both feeders and EHV sites, can be found on our LTDS [page](#) on the tab “Network Map”.

Local Authority Look Up Table

We now provide a look up table (Appendix 10) to enable Local Authority stakeholders to easily identify and assess the available capacity at each primary substation which supplies distribution substations (HV/LV) within their boundaries. It should be noted that some sites may be located in one area but supply customers in adjacent Local Authority’s areas. The table also shows the maximum & minimum demand for the previous year and the forecast demand for the next 5 years against the firm capacity of the primary substation to enable the approximate available capacity within the Local Authority boundary to be easily calculated.

Primary Substation Feeding Area

Appendix 11 details both the postcode and location (x and y coordinates) of each primary substation in our licence area and also the postcode sectors which are supplied by each primary substation.

Reverse Power Capability

We now provide the reverse power capability of each transformer (where available) in Appendix 4 Table 2 Transformer data. Where this data is not available “NOT KNOWN” is displayed.

Minimum Demand

We now provide the latest available minimum demand at each primary substation and supply point for the previous regulatory year within Appendix 5 Table 3 Load Information. The minimum demand on a substation can be particularly important when considering the connection of distributed generation. Where a negative value is reported, this indicates reverse power flow at the substation.

Other useful information sources

Heat Maps

A high level indication of the network capability to connect additional demand or generation is available on our website in the form of online [demand heat maps](#) and [generation heat maps](#), which are updated monthly.

Embedded Capacity Register

The Northern Powergrid Embedded Capacity Register provides visibility on generation connections with information on connection location, the fuel and technology of the generation in question and the connection status of that application. To view our Embedded Capacity Register containing connections of 1MW or greater click [here](#). Alternatively to view connections of 50kW up to and including 999kW click [here](#).

Document Library

We provide access to the Codes of Practice referred to in the LTDS and a wealth of other related information in the Northern Powergrid document library provides which can be accessed from the following [link](#).

Standard Licence Conditions 13, 14 and 36

Information relating to Northern Powergrid’s Use of System Charging methodology, Use of System (UoS) Charges, Connection Charging Methodology, connection charges, legacy metering and data services charges are available within the [document library](#) by selecting the appropriate option in the dropdown filter menu. All aspects of Ofgem’s work relating to changes made to a DNO’s Connection Charging Methodology statement and Use of System Charging methodology statement are available on the Ofgem [website](#).

Competition in Connections

Information relating to competition in connections and the opportunities to access alternative providers of connections to the Northern Powergrid system can be found on the Northern Powergrid [website](#).

System Studies

Requests for information that require system studies to be carried out will be priced individually, at an indicative rate of £70 per hour plus VAT; these should be directed in writing to opendata@northernpowergrid.com. A fuller list of costs and services is available within the Northern Powergrid (Northeast) LTDS.