



**Scottish & Southern**  
Electricity Networks

## **Long Term Development Statement for Scottish Hydro Electric Power Distribution plc's Electricity Distribution System**



**NOVEMBER 2018**

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# **SCOTTISH HYDRO ELECTRIC POWER DISTRIBUTION plc**

## **LONG TERM DEVELOPMENT STATEMENT**

### **FOREWORD**

Scottish Hydro Electric Power Distribution plc (SHEPD) is pleased to present this Long Term Development Statement (LTDS) for its electricity distribution network. It is produced by SHEPD in accordance with its Electricity Distribution Standard Licence Condition (SLC) 25. The statement covers the period 2017/18 to 2022/23.

The main purpose of the LTDS is to assist our existing and prospective users in assessing opportunities available to them for making new or additional use of our distribution system.

The assets referred to in this document are in the ownership of Scottish Hydro Electric Power Distribution plc. They deliver electricity to about 750,000 customers.

Although all reasonable efforts have been made to ensure the accuracy of data, SHEPD does not accept any liability for the accuracy of the information contained herein and in particular neither SHEPD, nor its directors or employees, shall be under any liability for any errors.

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# INTRODUCTORY INFORMATION (PART 1)

## 1. Purpose of Statement

This Long Term Development Statement (LTDS) is prepared in accordance with the direction given by the Authority (OFGEM) in compliance with paragraph 3 of SLC 25.

The purpose of this statement is to:

- Provide sufficient information which will assist existing and prospective new users who contemplate entering into distribution arrangements with the licensee, to identify and evaluate opportunities.
- Ensure the general availability of such information in the public domain.
- Inform users of distribution network development proposals.
- Provide users of the correct point of contact for specific enquires.

Users of the distribution system should also be aware that the main document which governs development and operation of the distribution system is the Distribution Code. This code covers all material technical aspects relating to connections to and the operation and use of the distribution systems of the Licensee.

## 2. Contents of Statement

This LTDS is in two parts.

- Part 1 provides a brief overview of Scottish Hydro Electric Power Distribution plc's distribution system in the north of Scotland.
- Part 2 gives detailed information of the system.

The statement contains a range of information associated with our 33 kV distribution system including the 11 kV busbar of 33/11 kV primary substations.

Information relating to 11 kV and LV systems is available on request. A price list for the provision of this data is included in Appendix 1.

Part 2 of the statement gives:

- Detailed information on the guiding principles for planning the distribution system, company internal standards, design policies and network characteristics.
- Schematic and geographical plans showing the 33 kV system including location of 132/33 kV and 33/11 kV substations.
- Details of embedded generation.
- Planned network development proposals for which financial approvals have been given in Appendix 3. They provide a summary of the work to be carried out, timescale and area of the network impacted by each proposal. These exclude like for like replacement (as this does not change system capability) and system developments for new or existing users.

- Detailed information relating to:
  - Circuit Data, Part 2 Table 1
  - Transformer Data, Part 2 Table 2
  - Demand Data, Part 2 Table 3
  - Fault Level Data, Part 2 Table 4
  - Generation Data, Part 2 Table 5
  - Connection Interest Part 2 Table 6
  - Schematic Diagrams of the Distribution Network Part 2

Details of the 132 kV system (regarded as transmission voltage in Scotland) are included in the Electricity Ten Year Statement, which is available on National Grid Electricity Transmission's website. <https://www.nationalgridet.com/>

### 3. Contact Details

Further copies of this LTDS can be requested by sending an email to:

[system.planning.north@sse.com](mailto:system.planning.north@sse.com)

or by making a request through the Scottish and Southern Electricity Networks website:

<http://www.ssen.co.uk/LTDS/>

For information relating to LTDS:

System Planning Manager  
Scottish Hydro Electric Power Distribution plc  
Inveralmond House  
200 Dunkeld Road Perth  
PH1 3AQ  
E-mail: [system.planning.north@sse.com](mailto:system.planning.north@sse.com)  
Tel: 01738 453601

Enquiries relating to new load connections or changes to existing load connections should be addressed to:

Connections and Engineering  
Scottish and Southern Electricity Networks  
Perth Training Centre  
Ruthvenfield Way  
Inveralmond Industrial Estate  
Perth  
PH1 3AF  
E-mail: [connections@sse.com](mailto:connections@sse.com)  
Tel: 0800 0483516

Enquiries relating to connection of generators should be addressed to:

Major Connections Contracts (MCC)  
Scottish and Southern Electricity Networks  
Perth Training Centre  
Ruthvenfield Way  
Inveralmond Industrial Estate  
Perth  
PH1 3AF  
E-mail: [mcc@sse.com](mailto:mcc@sse.com)  
Tel: 0845 0724319

Enquiries relating to connection of generators should review the decision tree via the Scottish and Southern Electricity Networks website:

<http://www.ssen.co.uk/GenerationConnectionsHome/>

[http://www.energynetworks.org/assets/files/electricity/engineering/distributed%20generation/Master\\_ENA\\_Generator\\_Application\\_Form\\_V2\\_April2011.doc](http://www.energynetworks.org/assets/files/electricity/engineering/distributed%20generation/Master_ENA_Generator_Application_Form_V2_April2011.doc)

Enquiries relating to the provision of copies of the "Use of system charging statement" should be addressed to:

Donald Preston  
Scottish Hydro Electric Power Distribution plc  
Inveralmond House  
200 Dunkeld Road  
Perth  
PH1 3AQ  
Email: [donald.preston@sse.com](mailto:donald.preston@sse.com)  
Tel: 01738 455774

Enquiries relating to the provision of copies of the "Statement of methodology and charges for connection" should be addressed to:

Gwen MacIntyre  
Scottish Hydro Electric Power Distribution plc  
Inveralmond House  
200 Dunkeld Road Perth  
PH1 3AQ  
Email: [gwen.macintyre@sse.com](mailto:gwen.macintyre@sse.com)  
Tel: 01738 512168

The Connection and Use of System charging statements can be viewed on our website. Our connection charging statements are revised from time to time and our Use of System charging statements are revised at least annually. Revised Use of System charges normally take effect from 1 April of each year. The latest documents can be viewed via the link below:

<http://www.ssen.co.uk/Library/ChargingStatements/SHEPD/>

## 4. Other Information Sources

### **Distributed Generation Connection Guide**

The ENA produces connection guides to help users as an owner or developer of distributed generation to connect distributed generation to the UK's electricity distribution networks.

The guides can be viewed by following the link below:

<http://www.energynetworks.org/electricity/engineering/distributed-generation/dg-connection-guides.html>

### **Guaranteed Standards**

In accordance with the Electricity (Standards of Performance) Regulations 2015, DNOs are obliged to meet guaranteed standards of performance.

OFGEM, the industry regulator, sets these standards. These guaranteed standards are laid out in three documents available from the ENA website.

The documents can be viewed by following the below links:

The Guaranteed Standards:

- The Electricity (Connection Standards of Performance) Regulations 2015

[http://www.legislation.gov.uk/uksi/2015/698/pdfs/uksi\\_20150698\\_en.pdf](http://www.legislation.gov.uk/uksi/2015/698/pdfs/uksi_20150698_en.pdf)

Part 2 – Services and Standards for Metered Connections

Part 3 – Services and Standards for Unmetered Connections

- The Electricity (Standards of Performance) Regulations 2015

[http://www.legislation.gov.uk/uksi/2015/699/pdfs/uksi\\_20150699\\_en.pdf](http://www.legislation.gov.uk/uksi/2015/699/pdfs/uksi_20150699_en.pdf)

- The Electricity and Gas (Standards of Performance) (Suppliers) Regulations 2015

[http://www.legislation.gov.uk/uksi/2015/1544/pdfs/uksi\\_20151544\\_en.pdf](http://www.legislation.gov.uk/uksi/2015/1544/pdfs/uksi_20151544_en.pdf)

### **Process to Request Additional Network Data**

Enquiries relating to the provision of additional network data to that contained in the LTDS should be sent to:

[system.planning.north@sse.com](mailto:system.planning.north@sse.com)