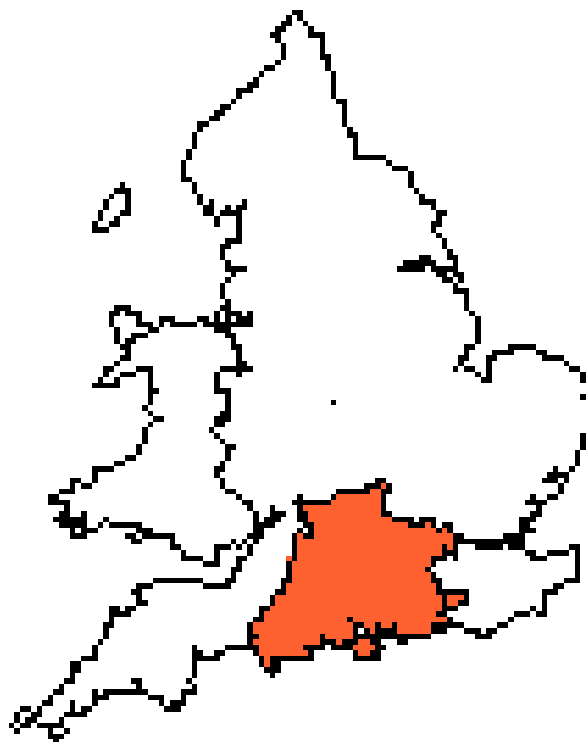




Scottish & Southern
Electricity Networks

LONG TERM DEVELOPMENT STATEMENT FOR SOUTHERN ELECTRIC POWER DISTRIBUTION PLC'S ELECTRICITY DISTRIBUTION SYSTEM



NOVEMBER 2021

Southern Electric Power Distribution is a trading name of: Scottish and Southern Energy Power Distribution Limited Registered in Scotland No. SC213459; Scottish Hydro Electric Transmission plc Registered in Scotland No. SC213461; Scottish Hydro Electric Power Distribution plc Registered in Scotland No. SC213460; (all having their Registered Offices at Inveralmond House 200 Dunkeld Road Perth PH1 3AQ); and Southern Electric Power Distribution plc Registered in England & Wales No. 04094290 having its Registered Office at 1 Forbury Place, 43 Forbury Road, Reading, Berkshire, RG1 3JH which are members of the SSE Group www.ssen.co.uk

© Copyright: Southern Electric Power Distribution plc



SOUTHERN ELECTRIC POWER DISTRIBUTION PLC LONG TERM DEVELOPMENT STATEMENT

FOREWORD

Southern Electric Power Distribution plc (SEPD) is pleased to present this Long Term Development Statement (LTDS) for its electricity distribution network, both In-Area and Out-of-Area¹. It is produced by Southern Electric Power Distribution plc in accordance with its Electricity Distribution Standard Licence Condition (SLC) 25. The statement covers the period 2021/22 to 2025/26.

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 Southern Electric Power Distribution plc. They deliver electricity to about 3 million customers.

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

This document may not be reproduced, in whole or part, for any purpose, without the written consent of Southern Electric Power Distribution plc.

¹ Out-of-Area are those SEPD owned networks not within the Southern Electric Power Distribution regional electricity company area.



CONTENTS

INTRODUCTORY SECTION	4
1 PURPOSE OF STATEMENT	4
2 CONTENTS OF STATEMENT	4
3 CONTACT DETAILS	5
4 OTHER INFORMATION SOURCES	7
SUMMARY INFORMATION	9
1 GUIDING PRINCIPLES FOR PLANNING THE DISTRIBUTION SYSTEM	9
2 STANDARDS	9
3 DESIGN POLICIES	14
4 NETWORK CHARACTERISTICS	17
5 GEOGRAPHIC AND SCHEMATIC PLANS	26
6 SOURCES OF NETWORK AND CHARGING INFORMATION	26
7 NETWORK INTERFACES	27
DETAILED INFORMATION	29
8 OVERVIEW OF THE SYSTEM	29
9 NETWORK DEVELOPMENT PROPOSALS	31
10 FURTHER INFORMATION	31
APPENDIX 1	32
APPENDIX 2	34
APPENDIX 3	36

INTRODUCTORY SECTION

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 are contemplating 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 enquiries.

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

2.1 Summary Information

The Summary Information section provides a brief overview of Southern Electric Power Distribution plc's distribution system in central southern England and its Out-of-Area networks, including high level information relating to the design and operation of all voltage levels of the distribution network.

Small scale geographic plans providing an overview of the 132 kV and EHV networks and substations are also provided together with this document on the SSEN website.

The statement contains a range of information associated with our EHV (132kV, 66kV, 33kV and 22kV) distribution system including the HV (11kV and 6.6kV) busbar of primary substations.

More specific information relating to HV and LV systems is available on request. A price list for the provision of this data is included in Appendix 1.

2.2 Detailed Information

The Detailed Information section of the statement gives:

- Information on the guiding principles for planning the distribution system, company internal standards, design policies and network characteristics.
- Schematic and geographical plans showing the EHV system including location of EHV/EHV and EHV/HV substations.

- Details of embedded generation.
- Planned network development proposals for which financial approvals have been given are shown 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 4a & 4b
 - Generation Part 2 Table 5
 - Connection Interest Part 2 Table 6

3 CONTACT DETAILS

The LTDS is available free of charge by sending an email to:

system.planning.south@sse.com

or by making a request through the Southern Electric Power Distribution website:

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

For further information relating to LTDS, or to provide feedback:

Head of Planning and Investment (South)
Southern Electric Power Distribution plc
1 Forbury Place
43 Forbury Road
Reading
RG1 3JH
E-mail: system.planning.south@sse.com

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

Connections and Engineering
Customer Service Centre
Scottish and Southern Electricity Networks
Walton Park, Walton Road
Cosham, Portsmouth
PO6 1UJ
E-mail: connections@sse.com
Tel: 0800 0483516

Enquiries relating to connection of generators should be addressed to:

- a. For enquiries involving greater than 50kW,

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
Tel: 035 0724319

- b. For enquiries involving less than 50kW,

Microgeneration Connections South
Scottish and Southern Electricity Networks
Perth Training Centre
Ruthvenfield Way
Inveralmond Industrial Estate
Perth
PH1 3AF
E-mail: south.microgen@sse.com
Tel: 0345 0724319

Enquiries relating to connection of generators should review the decision tree via the Southern Electric Power Distribution website or review the “My Generation” PDF for assistance:

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

(The generation connection section can be found from the connection home page.)
Guides are provided in this link to help you apply for your generator connection.

Application forms are available through the Energy Networks Association resource library website:

<https://www.energynetworks.org/industry-hub/resource-library/>

Alternatively, the various types of connection applications can be found here:

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

Enquiries relating to the provision of copies of the Statement of Charges for "Use of Distribution System" should be addressed to:

Distribution Pricing Team
Scottish and Southern Electricity Networks
Inveralmond House
200 Dunkeld Road
Perth
PH1 3AQ
Email: DistributionPricingTeam@sse.com

Enquiries relating to the provision of copies of the "Statement of Methodology and Charges for Connection to the Distribution System" should be addressed to:

Connections Policy Team
Scottish and Southern Electricity Networks
Inveralmond House
200 Dunkeld Road
Perth
PH1 3AQ
Email: connections.policy@sse.com

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/SEPD/>

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 searching for the guide in the ENA resource library at the link below:

<https://www.energynetworks.org/industry-hub/resource-library/>

Guaranteed Standards

All network operators have to achieve Ofgem's standards of performance for network connection services and meet strict deadlines. Ofgem recognise that not all jobs are equal, so the deadlines vary from five working days to 65 working days. If a network operator fails to meet a deadline, they have to pay compensation.



The Guaranteed Standards of performance can be downloaded here:

<https://www.legislation.gov.uk/uksi/2015/698/made>

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.south@sse.com