

# Long Term Development Statement (LTDS)

## Introduction

UK Power Networks – London Power Networks plc

May 2018

Version 1.0



# Long Term Development Statement London Power Networks plc

May 2018



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## INTRODUCTION

### Purpose of Statement

This Long Term Development Statement (LTDS) is issued by UK Power Networks on behalf of London Power Networks plc. The intention is that this Long Term Development Statement will provide developers with sufficient network data, forecasts and commentary to carry out initial assessments of project feasibility. The statement will also inform existing users of the distribution network of development proposals.

### An Introduction to London Power Networks plc's Distribution Network

London Power Networks plc's distribution network supplies over 2.3 million customers within an area of only 665 square kilometres. It is almost entirely urban and serves the most densely populated region in the country. Almost all of the network is underground, helping UK Power Networks to give London the most stable electricity distribution network in the UK.

Electricity is taken from National Grid's 400kV and 275kV networks at a number of 'Supergrid' sites and distributed to our customers through a succession of networks operating at various voltages ranging from 132kV down to 400/230V.

As per the regulatory submission to Ofgem for 2016/17, the number of customers supplied via London Power Networks plc's distribution network was 2,330,356. Together these customers represent a system electrical loading of approximately 4,915 MVA at the time of peak demand.

The following gives some idea of the scale of the infrastructure assets that managed by London Power Networks plc:

- |   |           |
|---|-----------|
| • EHV cable and lines                   | 1,828 km  |
| • HV cable                              | 12,401 km |
| • LV cable                              | 22,813 km |
| • 132kV & EHV transformers              | 470       |
| • Secondary transformers (6.6 and 11kV) | 5,487     |
| • Transformers (20kV)                   | 20        |



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## Content of Statement

London Power Networks plc's Long Term Development Statement comprises the following sections:

Introduction

Summary Information

- Design and operation of the distribution network
- Network characteristics
- Engineering recommendations and standards
- References and other sources of information

Detailed Information

- Schematic diagrams detailing normal operational configurations of the distribution network (132kV & EHV Network)
- Circuit data
- Transformer data
- Load information
- Fault level information
- Distributed generation information
- Tariffs for the provision of additional information and data

Network Development Proposals and Opportunities

- Network development proposals with time-scale
- Opportunities for alternative proposals such as distributed generation

## Further Information on Distributed Generation Connections

Information on how to connect a Distributed Generation (DG) scheme onto our network can be found on the following webpage including the Distributed Generation mapping tool and information about connecting Electric Vehicles charging points. [Distributed Energy Resources Website](#)

Information on Guaranteed Standards of Performance timescales can be found in Appendix A and further guidance can be found in the following document: [Guaranteed Standards for Distributed Generation](#)



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## Contact Points for Further Information

To request a copy of this statement (or additional network data) please register with UK Power Networks by providing the following information:

- Company Name, Full Address (including Post Code) & Company registration number.
- Contact Name
- Telephone Number
- Email Address
- Website Address

Please send your request to the email address below:

Email: [mbx-networksstrateg@ukpowernetworks.co.uk](mailto:mbx-networksstrateg@ukpowernetworks.co.uk)

To discuss a specific enquiry relating to a new connection to the distribution network or an enhancement to an existing connection to the distribution network:

Write to: Connections Gateway  
UK Power Networks  
Metropolitan House  
Darkes Lane  
Potters Bar  
Hertfordshire EN6 1AG

Telephone 0800 029 4282

Email [Connections.Gateway@ukpowernetworks.co.uk](mailto:Connections.Gateway@ukpowernetworks.co.uk)  
Website [www.ukpowernetworks.co.uk](http://www.ukpowernetworks.co.uk)

In order to improve the services, we provide to our customers we welcome your feedback. Therefore, if you have any comments relating to LTDS please send via email to the address below placing "Feedback" in the subject box.

Email: [mbx-networksstrateg@ukpowernetworks.co.uk](mailto:mbx-networksstrateg@ukpowernetworks.co.uk)



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## Appendix A: Distributed Generation Standards

The table below provides a summary of the performance timescale for Distributed Generation standards.

Reporting code (ECDGS no)	Service	Performance Level (Working Days)
1A	Provision of Budget Estimate <1MVA	10
1B	Provision of Budget Estimate >1MVA	20
3A	Provision of an LV generation Quotation	45
3B	Provision of an HV generation Quotation	65
3C	Provision of an EHV generation Quotation	65
4B	Contact Customer (post acceptance) about scheduling LV Generation Connections	7
4C	Contact Customer (post acceptance) about scheduling HV Generation Connections	10
4D	Contact Customer (post acceptance) about scheduling EHV Generation Connections	15
5	Commence LV, HV & EHV generation works on Customer's site	In timescale agreed with the Customer
6B	Complete LV works (including phased works)	In timescale agreed with the Customer
6C	Complete HV works (including phased works)	In timescale agreed with the Customer
6D	Complete EHV works (including phased works)	In timescale agreed with the Customer
7A	Complete LV Energisation works (including phased works)	In timescale agreed with the Customer
7B	Complete HV Energisation works (including phased works)	In timescale agreed with the Customer
7C	Complete EHV Energisation works (including phased works)	In timescale agreed with the Customer