

Long Term Development Statement (LTDS)

Introduction

UK Power Networks – Eastern Power Networks plc

May 2018

Version 1.0



Long Term Development Statement Eastern 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 Eastern 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 Eastern Power Networks plc's Distribution Network

Eastern Power Networks plc's distribution network supplies electricity to more than 3.6 million customers over an area of approximately 20,300 square kilometres, incorporating all of the counties of Norfolk, Suffolk and Hertfordshire, most of Cambridgeshire, Essex and Bedfordshire, parts of Buckinghamshire and Oxfordshire, and the northern suburbs of Greater London.

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 Eastern Power Networks plc's network was 3,614,431. Together these customers represent a system electrical loading of approximately 6,441 MVA at the time of peak demand.

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

- | | |
|---------------------------------|-----------|
| • EHV cable and lines | 8,819 km |
| • HV cable and lines | 39,112 km |
| • LV cable and lines | 49,701 km |
| • Grid and Primary transformers | 1,162 |
| • Secondary transformers | 67,886 |



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Content of Statement

Eastern 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
- EHV and 132kV geographic plan (found on separate pdf file)
- 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 Energy Resources 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

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

Website 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



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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