

Distribution Network Options Assessment (DNOA) Reports

MARCH 2026 | FOURTH EDITION



CHAPTER 01

Executive Summary

UK Power Networks' vision is to deliver a fit for purpose electricity network for the energy transition to Net Zero at the lowest cost to our customers. To do that, we set up GB's first independent Distribution System Operator (DSO) in 2023 with appropriate governance to ensure that decisions on provision of future network capacity are made in the interest of all UK Power Networks customers.

Hence, we were the first to set up an independent DSO Supervisory Board, as part of our operating model. Our DSO is at the heart of facilitating the lowest cost transition to Net Zero, whilst supporting clean economic growth.

As part of this we will continue to publish new granular data on our capacity needs and investment decision making throughout the R110-ED2 period.

In March 2025 we released the 2025 DNOA Methodology and Reports. The Reports outlined the outcomes of the DNOA process after flexibility tender round 11 (TR11), which we conducted during

the fourth quarter of 2024. In December 2025, we published an updated report based on results from flexibility tender round 12 (TR12) that we conducted in summer of 2025.

We began developing the 2026 DNOA recommendations in October 2025 after we produced updated load growth forecasts. We identified system constraints and therefore flexibility requirements for flexibility tender round 13 (TR13), which took place between December 2025 and January 2026. This tender round featured several changes compared to previous years: most notably we shortened the tender period to cover only the remaining two years of the current regulatory cycle, R110-ED2, instead of the customary three years. Subject to regulatory guidance, we may change this position in forthcoming tenders. We are working to provide the market with confidence beyond this regulatory period.

Another key change in TR13 involves discontinuing tenders for substations equipped with single transformers. These substations typically experience 24-hour constraint windows, which the flexibility market cannot address effectively for technical and commercial reasons. Consequently, we no longer tender for these sites.

In December 2025, we produced updated forecasts that reflected UK Power Networks inputs as part

of the National Energy System Operator (NESO) transitional Regional Energy Strategic Plan (tRESP) process and used them to award flexibility contracts and finalise the DNOA recommendations. The tRESP process and new consistent planning assumptions notably influenced our load growth forecasts. We also once again integrated high-confidence Local Area Energy Plan (LAEP) insights into the pathway chosen by NESO and Ofgem for us to plan to.

This document presents the resulting reports for locations where flexibility offers a technically viable solution and market engagement occurred during the latest flexibility tender. We organize reports by license area and need type. For extra high voltage (EHV)/high voltage (HV) demand schemes, we present results individually on dedicated pages, displaying main review information and four data rows that represent each pathway. Given their volume, low voltage (LV) demand outcomes appear in table format.

In March 2025, we introduced a document titled "Long term system needs" that provided comprehensive transparency regarding sites under consideration for investment through 2050. We are issuing a revised edition of this document concurrently with the DNOA reports. Since the new document signposts future needs, we have removed the signposting chapter from the DNOA reports.



We have introduced a new chapter that presents information about selected reinforcement activities underway within our network. Whilst other publications already detail this, including it here allows us to highlight selected reinforcement projects in progress. We have selected several projects with different investment drivers across

different voltage levels to provide a wide range of examples of the type of work done on our network. We direct readers to additional UK Power Networks resources that provide comprehensive information on all load-related reinforcement work currently underway, such as the Network Development Plan and Long Term Development Statement.

The number of reports in this DNOA publication are as follows:

HV demand: 19 sites **LV demand: 316 sites**

In the table below, we provide a quick overview of the results for the EHV/HV sites.

Type	Site / Name	License Area	Constraint Year	DNOA Result	DNOA Stage
Demand	Aldreth	EPN	2026	Flexibility	Flexibility dispatch
	Bury Street	EPN	2032	Signposting	Signposting
	Chatteris	EPN	2027	Flexibility	Flexibility dispatch
	Chelmsford East	EPN	2026	Flexibility	Flexibility procurement
	Coxford	EPN	2026	Flexibility	Flexibility procurement
	Halstead	EPN	2028	Signposting	Signposting
	Hendon Way	EPN	2026	Flexibility	Flexibility procurement
	March Primary	EPN	2026	Flexibility	Flexibility dispatch
	St Anthony Street	EPN	2026	Flexibility	Flexibility procurement

Type	Site / Name	License Area	Constraint Year	DNOA Result	DNOA Stage
Demand	Stody	EPN	2026	Flexibility	Flexibility procurement
	West Horndon	EPN	2027	Flexibility	Flexibility dispatch
	Bow	LPN	2026	Flexibility	Flexibility procurement
	Glaucus Street	LPN	2027	Flexibility	Flexibility procurement
	Lithos Road	LPN	2030	Signposting	Signposting
	Merton	LPN	2029	Signposting	Signposting
	Sewell Road	LPN	2027	Flexibility	Flexibility procurement
	Willesden Grid	LPN	2026	Flexibility	Flexibility procurement
	Sevington	SPN	2030	Signposting	Signposting
	Tenterden	SPN	2026	Flexibility	Flexibility procurement

CHAPTER 02

HV Demand Results

In this chapter we present the detailed reports for the results of the DNOA process of the HV demand sites.

Eastern Power Networks (EPN) Results

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London Power Networks (LPN) Results

[PAGE 16](#)

South Eastern Power Networks (SPN) Results

[PAGE 22](#)

Aldreth

RESP region: Central England

Area: EPN

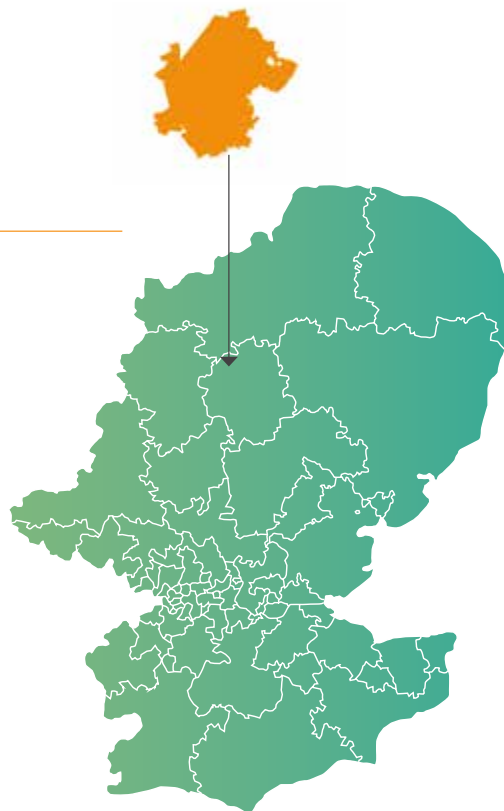
Postcode: CB6 3PJ

Constraint description:

The 33/11 kV site is expected to be overloaded under an N-1 outage condition due to the limited rating of the 11kV switchgear.

Traditional solution:

In order to increase capacity at the site a proposed solution is to replace the 11kV switchgear.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

<p>Constraint season Winter</p>	<p>Constraint year 2026</p>	<p>Flex revenue range £/MW £59,900 - £85,600</p>
<p>Customers served 7,680</p>	<p>Current status Flexibility dispatch</p>	<p>Local authority East Cambridgeshire, South Cambridgeshire</p>

DNOA result:



The flexibility procured in previous tender events is enough to manage the constraint.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT	0.3	0.3	0.5	0.8	1.5
CF	0.3	0.3	0.4	0.7	1.2
EE	0.2	0.1	0.3	0.5	0.9
HE	0.4	0.4	0.5	1.0	1.6
FLEX	>100%	>100%			

Key:

Signposting **Reinforcement** **Flexibility**

Legend: HT: Holistic Transition CF: Counterfactual
EE: Electric Engagement HE: Hydrogen Evolution
FLEX: Flexibility Procurement Progress

Bury Street

RESP region: Greater London

Area: EPN

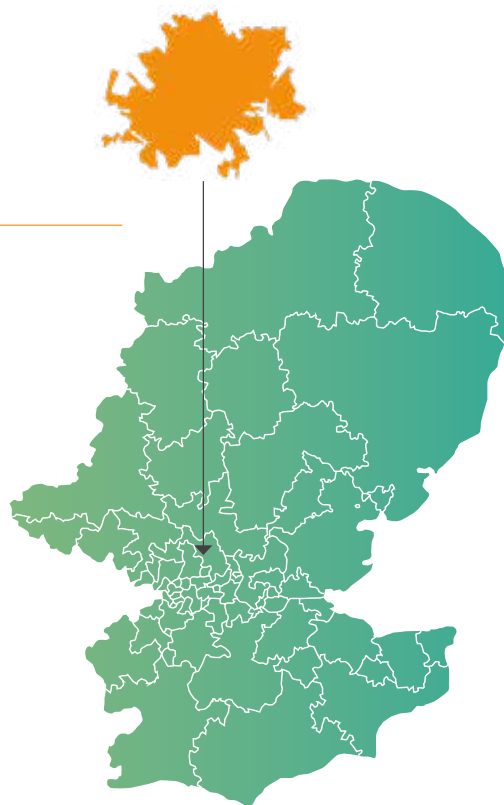
Postcode: N9 9LD

Constraint description:

The 33/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to replace the existing 2 x 33/11 kV transformers.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

DNOA result:



The latest load forecasts show that the needs have been postponed. We will not award flexibility contracts.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT					
CF					
EE					
HE					
FLEX					

Key: Signposting Reinforcement Flexibility

Legend: HT: Holistic Transition CF: Counterfactual
 EE: Electric Engagement HE: Hydrogen Evolution
 FLEX: Flexibility Procurement Progress
 LAEP IMPACT: Forecasts enhanced by data from a LAEP

<p>Constraint season</p> <p>Winter</p>	<p>Constraint year</p> <p>2032</p>	<p>Flex revenue range £/MW</p> <p>£23,300 - £33,000</p>
<p>Customers served</p> <p>10,057</p>	<p>Current status</p> <p>Signposting</p>	<p>Local authority</p> <p>Enfield</p>

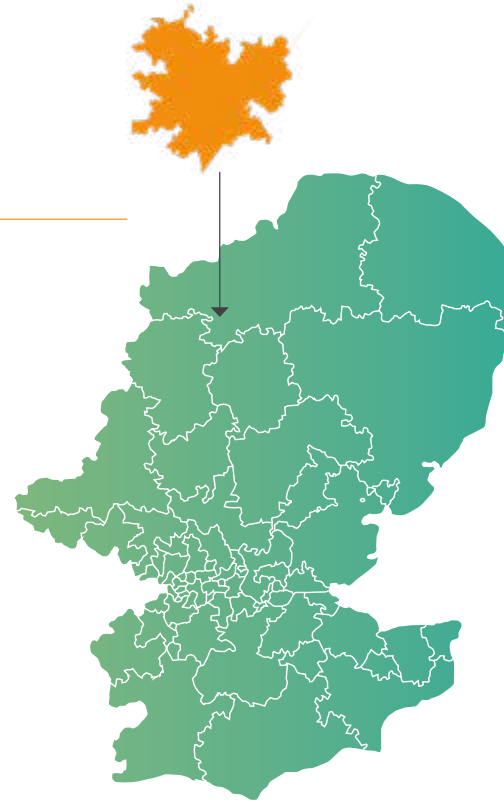
LAEP IMPACT

Chatteris

RESP region: Central England
Area: EPN
Postcode: PE16 6TG

Constraint description:
 The 33/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer capacity and voltage regulation.

Traditional solution:
 In order to increase capacity at the site a proposed solution is to build a new primary and transfer some of the demand from Chatteris to this new primary.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

<p>Constraint season Summer</p>	<p>Constraint year 2027</p>	<p>Flex revenue range £/MW £206,100 - £294,300</p>
<p>Customers served 10,763</p>	<p>Current status Flexibility dispatch</p>	<p>Local authority Fenland, Huntingdonshire, East Cambridgeshire</p>

DNOA result:



We were able to procure flexibility to fulfil all our requirements in the tendered period. We will use this flexibility to manage the constraint.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031
HT		0.1	0.6	1.2	1.6
CF	0.2	0.5	0.8	1.2	1.5
EE		0.1	0.5	0.8	1.0
HE	0.2	0.5	0.9	1.3	1.6
FLEX		>100%			

Key:

- Signposting
- Reinforcement
- Flexibility

Legend: HT: Holistic Transition CF: Counterfactual
 EE: Electric Engagement HE: Hydrogen Evolution
 FLEX: Flexibility Procurement Progress

Chelmsford East

RESP region: East

Area: EPN

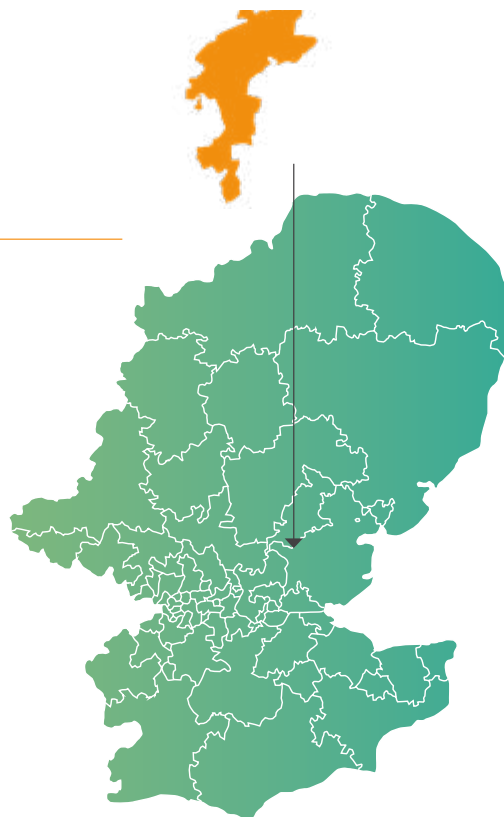
Postcode: CM2 7AQ

Constraint description:

The 33/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to replace the existing transformers.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

<p>Constraint season Winter/Summer</p>	<p>Constraint year 2026</p>	<p>Flex revenue range £/MW £23,700 - £33,400</p>
<p>Customers served 5,595</p>	<p>Current status Flexibility procurement</p>	<p>Local authority Chelmsford</p> <p>LAEP IMPACT</p>

DNOA result:



We have partially fulfilled the system needs. We will continue procuring flexibility in the next tender events to fulfil the system needs.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT	1.1	3.0	4.9	6.6	7.7
CF	1.5	3.2	5.0	6.7	7.8
EE	1.2	2.9	4.7	6.5	7.6
HE	1.4	3.1	5.0	6.8	7.9
FLEX	30%	30%			

Key:

- Signposting
- Reinforcement
- Flexibility

Legend: HT: Holistic Transition CF: Counterfactual
 EE: Electric Engagement HE: Hydrogen Evolution
 FLEX: Flexibility Procurement Progress
 LAEP IMPACT: Forecasts enhanced by data from a LAEP

Coxford

RESP region: East

Area: EPN

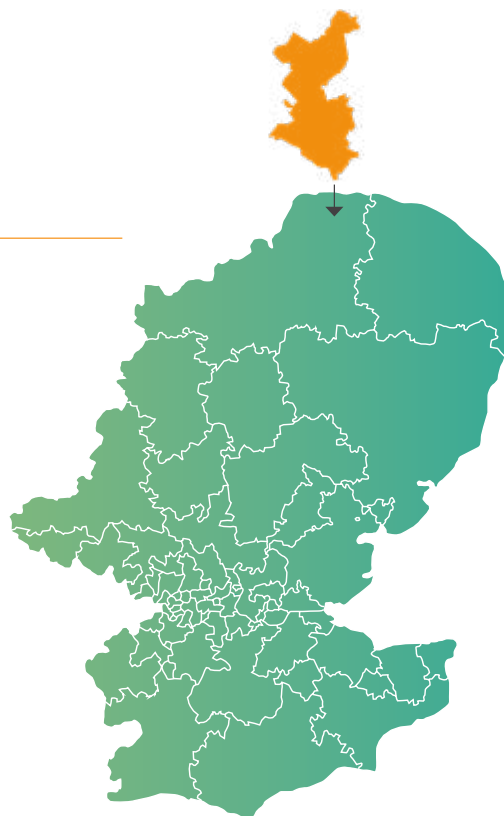
Postcode: PE31 8RS

Constraint description:

The 33/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer and circuit capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to install a new 33/11 kV transformer and replace the 33kV overhead line (OHL) supplying the substation.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

<p>Constraint season Winter</p>	<p>Constraint year 2026</p>	<p>Flex revenue range £/MW £104,500 - £149,400</p>
<p>Customers served 1,911</p>	<p>Current status Flexibility procurement</p>	<p>Local authority King's Lynn and West Norfolk, North Norfolk</p> <p>LAEP IMPACT</p>

DNOA result:



We have partially fulfilled the system needs. We will continue procuring flexibility in the next tender events to fulfil the system needs.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT	0.4	0.9	1.4	1.5	1.6
CF	0.4	0.9	1.4	1.5	1.6
EE	0.4	0.9	1.4	1.5	1.6
HE	0.4	0.9	1.4	1.5	1.6
FLEX	10%	<10%			

Key:

- Signposting
- Reinforcement
- Flexibility

Legend:

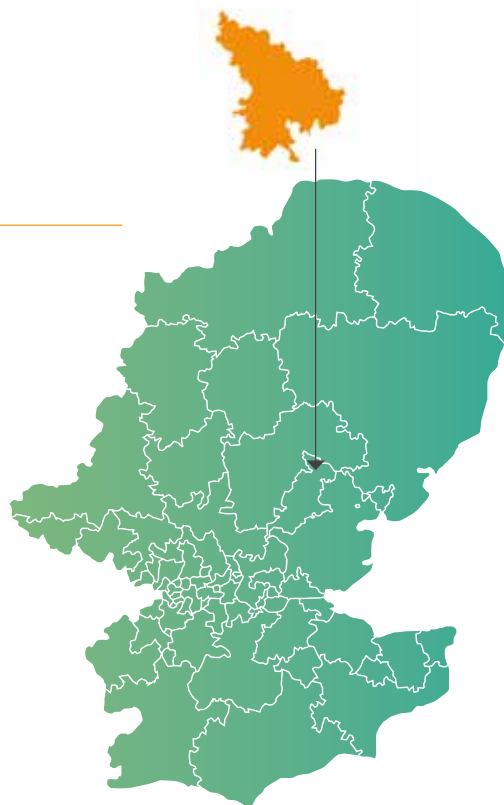
- HT: Holistic Transition
- CF: Counterfactual
- EE: Electric Engagement
- HE: Hydrogen Evolution
- FLEX: Flexibility Procurement Progress
- LAEP IMPACT: Forecasts enhanced by data from a LAEP

Halstead

RESP region: East
Area: EPN
Postcode: CO9 1LH

Constraint description:
The 33/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer capacity.

Traditional solution:
In order to increase capacity at the site a proposed solution is to replace the existing transformers and the 11kV switchgear.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

<p>Constraint season Winter</p>	<p>Constraint year 2028</p>	<p>Flex revenue range £/MW £81,300 - £116,100</p>
<p>Customers served 12,412</p>	<p>Current status Signposting</p>	<p>Local authority Braintree</p>

LAEP IMPACT

DNOA result:



The latest load forecasts show that the needs have been postponed. We will not award flexibility contracts.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT			1.0	1.7	2.6
CF			0.8	1.5	2.3
EE			0.7	1.5	2.3
HE			0.9	1.7	2.6
FLEX					

Key: Signposting Reinforcement Flexibility

Legend: HT: Holistic Transition CF: Counterfactual
EE: Electric Engagement HE: Hydrogen Evolution
FLEX: Flexibility Procurement Progress
LAEP IMPACT: Forecasts enhanced by data from a LAEP

Hendon Way

RESP region: East

Area: EPN

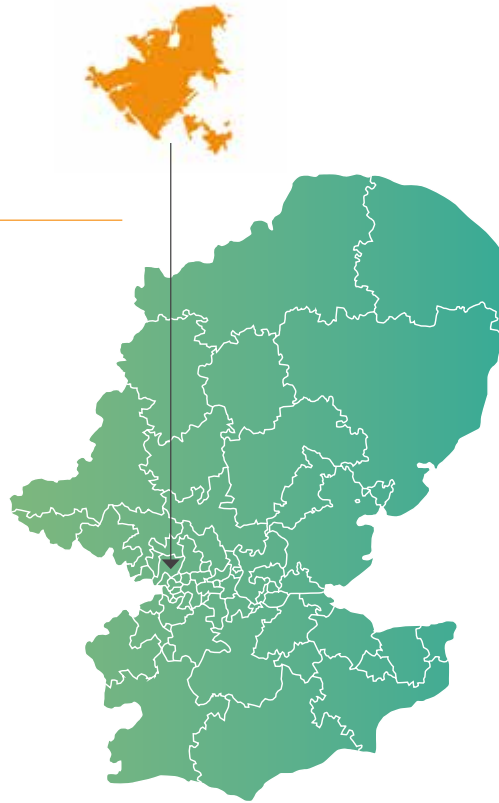
Postcode: NW11 9RR

Constraint description:

The 33/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to install a 3rd transformer, 5km of 33kV circuit, extend the 11kV switchgear and install a new 33kV circuit from Hendon Grid.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

<p>Constraint season Summer</p>	<p>Constraint year 2026</p>	<p>Flex revenue range £/MW £80,000 - £113,800</p>
<p>Customers served 11,318</p>	<p>Current status Flexibility procurement</p>	<p>Local authority Barnet</p>

DNOA result:



We have partially fulfilled the system needs through our previous tender events and received low offers in the Winter 2025/26 flexibility tender. We will not award but will continue procuring flexibility in the next tender events to fulfil the system needs.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT	1.4	2.1	3.2	3.9	4.5
CF	1.6	2.4	3.3	4.1	4.7
EE	1.3	1.9	3.1	3.9	4.6
HE	1.5	2.2	3.4	4.2	5.0
FLEX	>100%	<10%			

Key:

Signposting Reinforcement Flexibility

Legend: HT: Holistic Transition CF: Counterfactual
EE: Electric Engagement HE: Hydrogen Evolution
FLEX: Flexibility Procurement Progress

March Primary

RESP region: Central England

Area: EPN

Postcode: PE15 9LT

Constraint description:

The 33/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to install a new single transformer 33/11 kV substation at March Grid 132/33 kV site, establish 11kV switchroom and 11kV circuits.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

<p>Constraint season Winter</p>	<p>Constraint year 2026</p>	<p>Flex revenue range £/MW £55,800 - £80,100</p>
<p>Customers served 12,621</p>	<p>Current status Flexibility dispatch</p>	<p>Local authority Fenland</p>

DNOA result:



We were able to procure flexibility to fulfil all our requirements in the tendered period. We will use this flexibility to manage the constraint.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT	1.2	1.6	2.2	2.8	3.2
CF	1.6	2.0	2.6	3.3	3.7
EE	1.1	1.5	2.1	2.6	3.0
HE	1.6	2.0	2.7	3.3	3.7
FLEX	>100%	>100%			

Key:

Signposting Reinforcement Flexibility

Legend: HT: Holistic Transition CF: Counterfactual
EE: Electric Engagement HE: Hydrogen Evolution
FLEX: Flexibility Procurement Progress

St Anthony Street

RESP region: Central England

Area: EPN

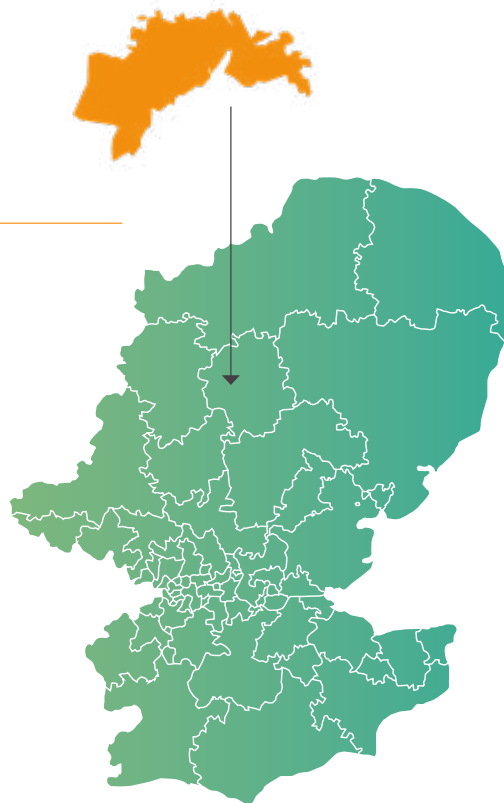
Postcode: CB2 1HX

Constraint description:

The 33/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer capacity and voltage regulation.

Traditional solution:

In order to increase capacity at the site a proposed solution is to replace the existing transformers.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

<p>Constraint season Summer</p>	<p>Constraint year 2026</p>	<p>Flex revenue range £/MW £36,900 - £52,400</p>
<p>Customers served 2,569</p>	<p>Current status Flexibility procurement</p>	<p>Local authority Cambridge, South Cambridge</p>

DNOA result:



We have partially fulfilled the system needs through our previous tender events and received low offers in the Winter 2025/26 flexibility tender. We will not award but will continue procuring flexibility in the next tender events to fulfil the system needs.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031
HT	1.4	2.2	3.0	3.7	3.9
CF	1.8	2.6	3.5	4.3	4.6
EE	1.3	2.1	3.0	3.6	3.9
HE	1.7	2.5	3.4	4.1	4.4
FLEX	90%				

Key:

- Signposting
- Reinforcement
- Flexibility

Legend: HT: Holistic Transition CF: Counterfactual
EE: Electric Engagement HE: Hydrogen Evolution
FLEX: Flexibility Procurement Progress

Stody

RESP region: East

Area: EPN

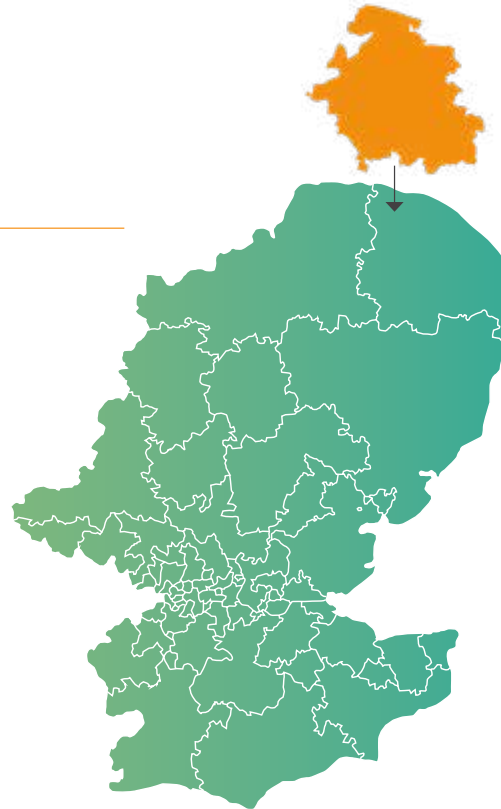
Postcode: NR24 2DZ

Constraint description:

The 33/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to replace 2x 33/11 kV transformers and the 33kV OHL supplying the substation.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

<p>Constraint season Winter/Summer</p>	<p>Constraint year 2026</p>	<p>Flex revenue range £/MW £45,800 - £65,200</p>
<p>Customers served 7,225</p>	<p>Current status Flexibility procurement</p>	<p>Local authority North Norfolk</p> <p>LAEP IMPACT</p>

DNOA result:



We have partially fulfilled the system needs through our previous tender events and received low offers in the Winter 2025/26 flexibility tender. We will not award but will continue procuring flexibility in the next tender events to fulfil the system needs.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT	2.3	3.5	4.0	4.4	4.9
CF	2.3	3.4	3.9	4.2	4.6
EE	2.2	3.3	3.7	4.1	4.4
HE	2.3	3.4	3.9	4.2	4.6
FLEX					

Key:

- Signposting
- Reinforcement
- Flexibility

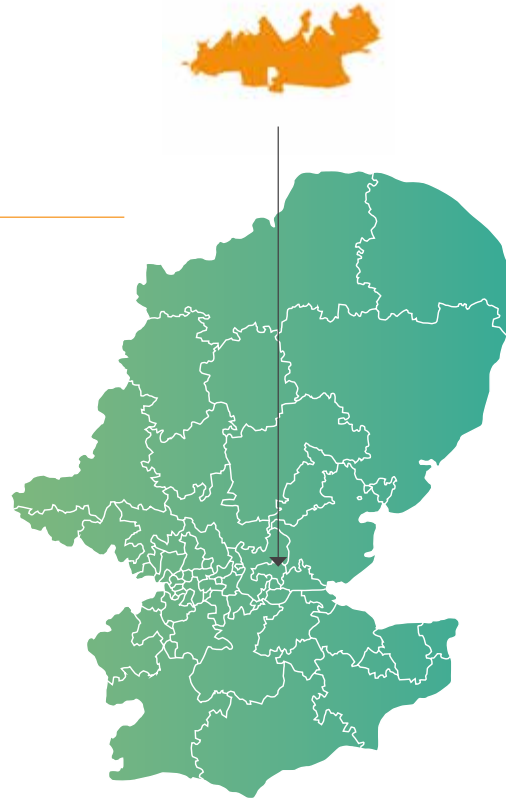
Legend: HT: Holistic Transition CF: Counterfactual
 EE: Electric Engagement HE: Hydrogen Evolution
 FLEX: Flexibility Procurement Progress
 LAEP IMPACT: Forecasts enhanced by data from a LAEP

West Horndon

RESP region: East
Area: EPN
Postcode: CM13 3XL

Constraint description:
 The 33/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer capacity.

Traditional solution:
 In order to increase capacity at the site a proposed solution is to replace the existing transformers.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

<p>Constraint season Winter</p>	<p>Constraint year 2027</p>	<p>Flex revenue range £/MW £212,300 - £303,200</p>
<p>Customers served 1,423</p>	<p>Current status Flexibility dispatch</p>	<p>Local authority Brentwood, Basildon</p>

LAEP IMPACT

DNOA result:



We were able to procure flexibility to fulfil all our requirements in the tendered period. We will use this flexibility to manage the constraint.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT		0.1	0.9	1.4	2.0
CF		0.1	0.7	1.1	1.5
EE			0.7	1.2	1.8
HE		0.1	0.8	1.3	1.9
FLEX		>100%			

Key:

- Signposting
- Reinforcement
- Flexibility

Legend: HT: Holistic Transition CF: Counterfactual
 EE: Electric Engagement HE: Hydrogen Evolution
 FLEX: Flexibility Procurement Progress
 LAEP IMPACT: Forecasts enhanced by data from a LAEP

Bow

RESP region: Greater London

Area: LPN

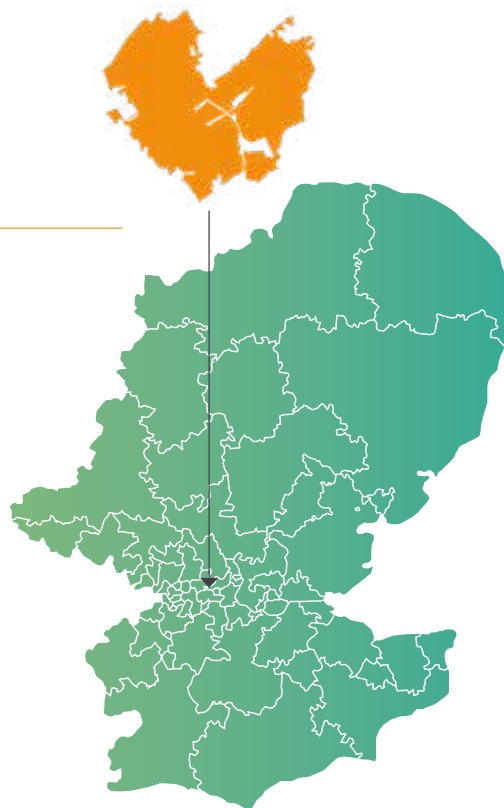
Postcode: E15 2GN

Constraint description:

The 132/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to establish a 3rd 132/11kV transformer and extend 132kV Switchboard at Bow GIS.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

<p>Constraint season Winter</p>	<p>Constraint year 2026</p>	<p>Flex revenue range £/MW £14,900 - £21,400</p>
<p>Customers served 28,175</p>	<p>Current status Flexibility procurement</p>	<p>Local authority Newham, Tower Hamlets</p> <p>LAEP IMPACT</p>

DNOA result:



We have partially fulfilled the system needs through our previous tender events and received low offers in the Winter 2025/26 flexibility tender. We will not award but will continue procuring flexibility in the next tender events to fulfil the system needs.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/2027	2027/2028	2028/2029	2029/2030	2030/2031
HT	0.3	0.9	1.0	0.8	0.7
CF	1.5	2.2	2.6	2.6	2.6
EE	0.3	0.9	1.1	0.9	0.7
HE	1.2	2.0	2.3	2.2	2.1
FLEX	>100%	60%			

Key: Signposting Reinforcement Flexibility

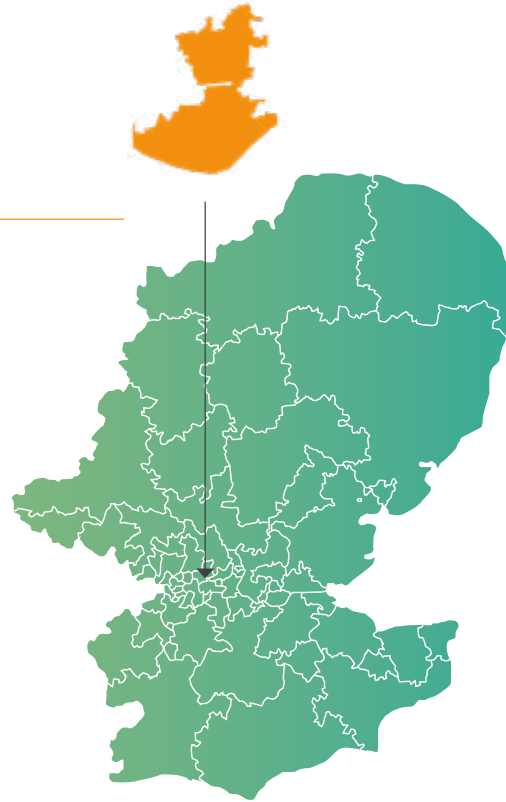
Legend: HT: Holistic Transition CF: Counterfactual
EE: Electric Engagement HE: Hydrogen Evolution
FLEX: Flexibility Procurement Progress
LAEP IMPACT: Forecasts enhanced by data from a LAEP

Glaucus Street

RESP region: Greater London
Area: LPN
Postcode: E3 3QH

Constraint description:
 The 66/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer capacity.

Traditional solution:
 In order to increase capacity at the site a proposed solution is to construction of a new 2 x 66 MVA Glaucus Street B site, supplied from New Cross.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

<p>Constraint season Winter/Summer</p>	<p>Constraint year 2027</p>	<p>Flex revenue range £/MW £72,400 - £103,300</p>
<p>Customers served 22,866</p>	<p>Current status Flexibility procurement</p>	<p>Local authority Tower Hamlets</p> <p>LAEP IMPACT</p>

DNOA result:



We have partially fulfilled the system needs. We will continue procuring flexibility in the next tender events to fulfil the system needs.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT		1.5	4.7	8.0	9.0
CF		0.3	3.3	6.6	7.6
EE		1.3	4.5	7.9	9.0
HE		1.5	4.7	8.1	9.2
FLEX		<10%			

Key:

- Signposting
- Reinforcement
- Flexibility

Legend: HT: Holistic Transition CF: Counterfactual
 EE: Electric Engagement HE: Hydrogen Evolution
 FLEX: Flexibility Procurement Progress
 LAEP IMPACT: Forecasts enhanced by data from a LAEP

Lithos Road

RESP region: Greater London

Area: LPN

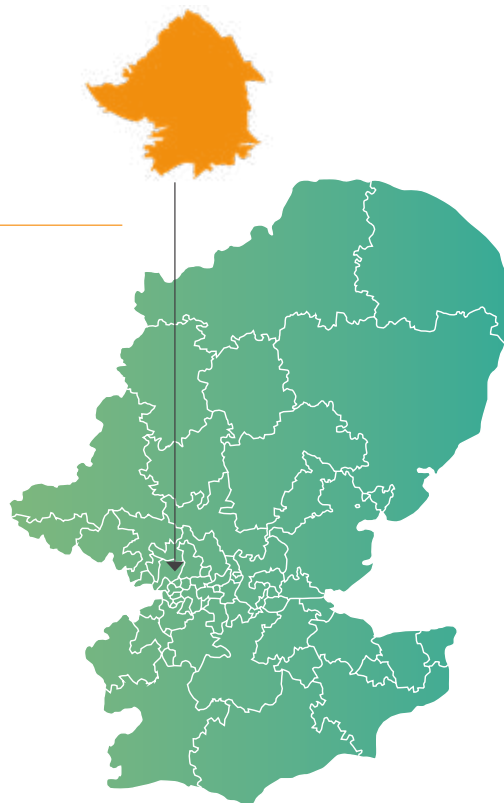
Postcode: NW3 6ES

Constraint description:

The 66/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer capacity.

Traditional solution:

In order to increase capacity at the site, the proposed solution is to replace the existing 4 x 15 MVA transformers with 3 x 66/11 kV, 33 MVA transformers.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

DNOA result:



The latest load forecasts show that the needs have been postponed. We will not award flexibility contracts.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT					0.4
CF					
EE					0.8
HE				0.6	1.8
FLEX					

Key: Signposting Reinforcement Flexibility

Legend: HT: Holistic Transition CF: Counterfactual
 EE: Electric Engagement HE: Hydrogen Evolution
 FLEX: Flexibility Procurement Progress
 LAEP IMPACT: Forecasts enhanced by data from a LAEP

<p>Constraint season Winter</p>	<p>Constraint year 2030</p>	<p>Flex revenue range £/MW £52,900 - £75,500</p>
<p>Customers served 42,974</p>	<p>Current status Signposting</p>	<p>Local authority Camden</p>

LAEP IMPACT

Merton

RESP region: Greater London

Area: LPN

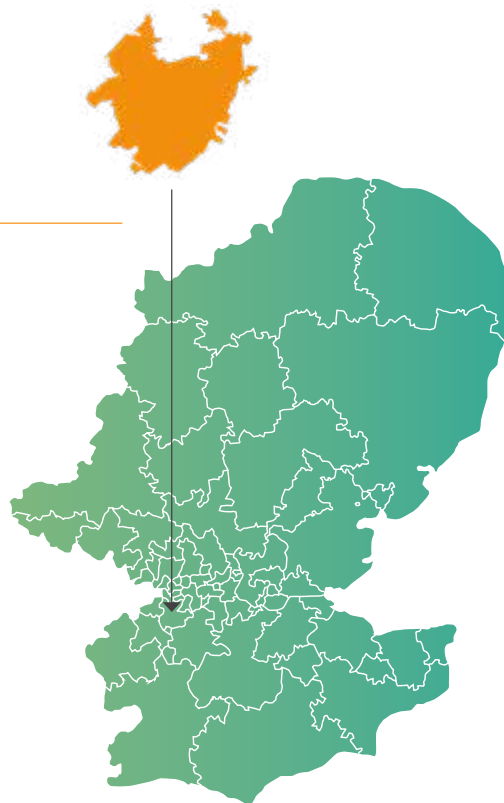
Postcode: SW19 3TZ

Constraint description:

The 33/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer capacity.

Traditional solution:

In order to increase capacity at the site, the proposed solution is to replace the existing 4 x 15 MVA transformers with 3 x 33/11 kV, 33 MVA transformers.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

DNOA result:



The latest load forecasts show that the needs have been postponed. We will not award flexibility contracts.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT				1.0	2.0
CF					
EE				0.4	1.6
HE				1.0	2.3
FLEX					

Key: Signposting Reinforcement Flexibility

Legend: HT: Holistic Transition CF: Counterfactual
 EE: Electric Engagement HE: Hydrogen Evolution
 FLEX: Flexibility Procurement Progress
 LAEP IMPACT: Forecasts enhanced by data from a LAEP

<p>Constraint season Winter</p>	<p>Constraint year 2029</p>	<p>Flex revenue range £/MW £44,500 - £63,500</p>
<p>Customers served 36,006</p>	<p>Current status Signposting</p>	<p>Local authority Merton</p>

LAEP IMPACT

Sewell Road

RESP region: Greater London

Area: LPN

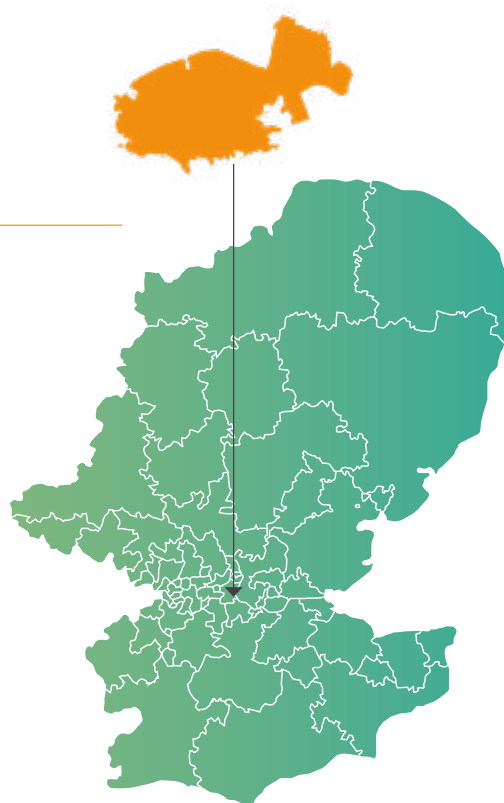
Postcode: SE2 9XR

Constraint description:

The 33/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer capacity.

Traditional solution:

In order to increase capacity at the site, the proposed solution is to replace the existing 4 x 15 MVA transformers with 4 x 20/30/40 MVA units and install new 33kV circuits.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

DNOA result:



We have partially fulfilled the system needs. We will continue procuring flexibility in the next tender events to fulfil the system needs.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT		2.2	4.6	6.7	8.9
CF			2.5	4.9	7.0
EE		1.8	4.4	6.7	8.9
HE		2.3	5.0	7.4	9.6
FLEX		20%			

Key: Signposting Reinforcement Flexibility

Legend: HT: Holistic Transition CF: Counterfactual
 EE: Electric Engagement HE: Hydrogen Evolution
 FLEX: Flexibility Procurement Progress
 LAEP IMPACT: Forecasts enhanced by data from a LAEP

<p>Constraint season Summer</p>	<p>Constraint year 2027</p>	<p>Flex revenue range £/MW £63,600 - £90,600</p>
<p>Customers served 40,412</p>	<p>Current status Flexibility procurement</p>	<p>Local authority Greenwich</p>

Willesden Grid

RESP region: Greater London

Area: LPN

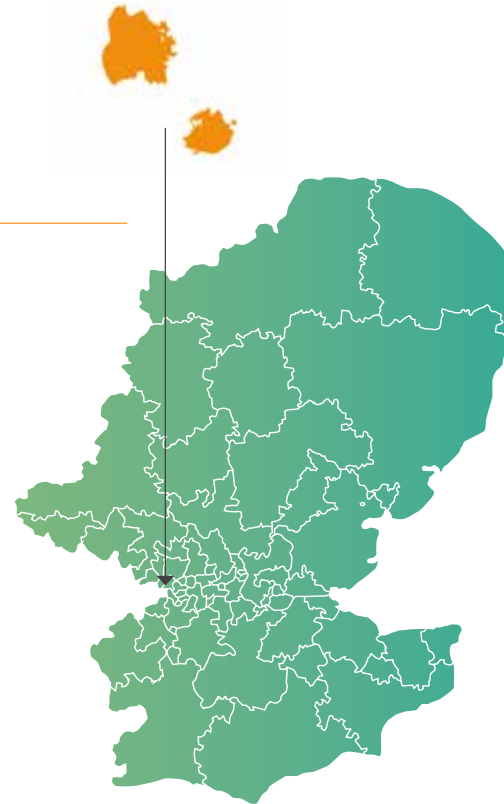
Postcode: NW10 6PE

Constraint description:

There is a deficiency in capacity within the Scottish and Southern Energy Networks' service area in West London.

Traditional solution:

In order to increase capacity at the site a proposed solution is to ensure a whole systems approach to solve the network limitation.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

<p>Constraint season Summer</p>	<p>Constraint year 2026</p>	<p>Flex revenue range £/MW £30,800 - £43,900</p>
<p>Customers served 108,256</p>	<p>Current status Flexibility procurement</p>	<p>Local authority Ealing</p>

DNOA result:



The 25MVA of flexibility requirements are part of a collection of interventions in the West London area to release capacity close to 200 MVA.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT	25.0	25.0			
CF					
EE					
HE					
FLEX	20%	<10%			

Key:

- Signposting
- Reinforcement
- Flexibility

Legend: HT: Holistic Transition CF: Counterfactual
EE: Electric Engagement HE: Hydrogen Evolution
FLEX: Flexibility Procurement Progress

Sevington

RESP region: South East

Area: SPN

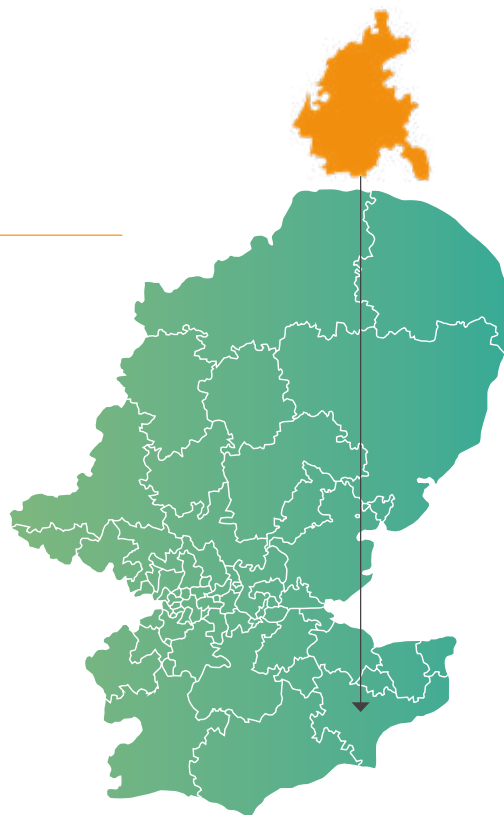
Postcode: TN24 OHT

Constraint description:

The 33/11 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to extend the switchgear and install a 3rd transformer.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

<p>Constraint season Winter</p>	<p>Constraint year 2030</p>	<p>Flex revenue range £/MW £12,100 - £17,300</p>
<p>Customers served 7,911</p>	<p>Current status Signposting</p>	<p>Local authority Ashford</p>

LAEP IMPACT

DNOA result:



The latest load forecasts show that the needs have been postponed. We will not award flexibility contracts.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT					0.8
CF					0.7
EE					0.8
HE					1.1
FLEX					

Key: Signposting Reinforcement Flexibility

Legend: HT: Holistic Transition CF: Counterfactual
EE: Electric Engagement HE: Hydrogen Evolution
FLEX: Flexibility Procurement Progress
LAEP IMPACT: Forecasts enhanced by data from a LAEP

Tenterden

RESP region: South East

Area: SPN

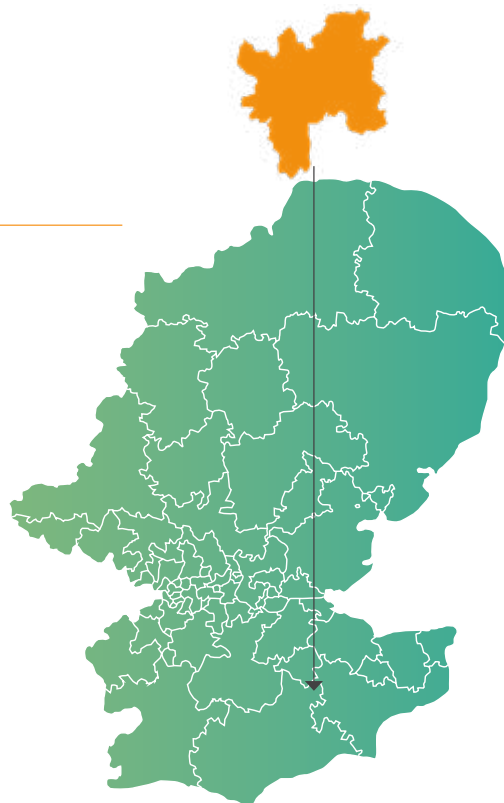
Postcode: TN30 6EY

Constraint description:

The 33/6.6 kV site is expected to be overloaded under an N-1 outage condition due to limited transformer and circuit capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to replace 2 x 33/6.6 kV transformers and reinforce 8.3km EHV circuit.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

<p>Constraint season Winter</p>	<p>Constraint year 2026</p>	<p>Flex revenue range £/MW £107,400 - £153,400</p>
<p>Customers served 7,911</p>	<p>Current status Flexibility procurement</p>	<p>Local authority Ashford</p> <p>LAEP IMPACT</p>

DNOA result:



We have partially fulfilled the system needs. We will continue procuring flexibility in the next tender events to fulfil the system needs.

DNOA result history:

2023	2024	2025	2026	2027	2028

Flex requirement per year for each scenario (MW) and flex procurement progress (%)

	2026/ 2027	2027/ 2028	2028/ 2029	2029/ 2030	2030/ 2031
HT	0.3	0.6	1.2	1.7	2.2
CF	0.5	0.7	1.2	1.6	2.1
EE	0.3	0.5	1.2	1.6	2.1
HE	0.5	0.7	1.3	1.8	2.3
FLEX	50%	40%			

Key: Signposting Reinforcement Flexibility

Legend: HT: Holistic Transition CF: Counterfactual
 EE: Electric Engagement HE: Hydrogen Evolution
 FLEX: Flexibility Procurement Progress
 LAEP IMPACT: Forecasts enhanced by data from a LAEP

CHAPTER 03

List of removed sites

In this chapter we present a list of sites that had identified needs in the previous DNOA publication.



CHAPTER 03

List of removed sites

In the table below we present a list of sites that had identified needs in the previous DNOA publication, however we did not include them in this annual cycle.

This can be either because the network demand has reduced or because reinforcement work has increased the capacity of the network and the need is resolved.

Area	Site/Name	DNOA 2025 Removal Reasoning
EPN	Abberton Coggeshall circuits	There was a drop in load forecasts which allows the constraint to be managed by load transfer
EPN	Alresford	There was a drop in load forecasts which allows the constraint to be managed by load transfer
EPN	Amphill	Updated forecasts show need beyond RII0-ED2
EPN	Austin Canons Primary	There was a drop in load forecasts which allows the constraint to be managed by load transfer
EPN	Barsham	There was a drop in load forecasts which allows the constraint to be managed by load transfer
EPN	Basildon	Updated forecasts show need beyond RII0-ED2
EPN	Beresford Avenue	Updated forecasts show need beyond RII0-ED2
EPN	Bramford Diss Thetford	There was a drop in load forecasts which allows the constraint to be managed by load transfer
EPN	Brandon	There was a drop in load forecasts which allows the constraint to be managed by load transfer
EPN	Brington	Single transformer sites are no longer tendered for flexibility
EPN	Brockenhurst - Mill Hill	Reinforcement in delivery

Area	Site/Name	DNOA 2025 Removal Reasoning
EPN	Caister	There was a drop in load forecasts which allows the constraint to be managed by load transfer
EPN	Cheddington	Updated forecasts show need beyond ED3
EPN	Cockfosters	Reinforcement in delivery
EPN	Croydon	Updated forecasts show need beyond RII0-ED2
EPN	Diss Grid	There was a drop in load forecasts which allows the constraint to be managed by load transfer
EPN	Feltwell	Single transformer sites are no longer tendered for flexibility
EPN	Godmanchester	Updated forecasts show need beyond ED3
EPN	Grays	Updated forecasts show need beyond RII0-ED2
EPN	Guyhirn	Single transformer sites are no longer tendered for flexibility
EPN	Kenninghall	The site has been tendered several times without success, and the reinforcement plans will be included within the ED3 regulatory period
EPN	Kimbolton	Single transformer sites are no longer tendered for flexibility



Area	Site/Name	DN0A 2025 Removal Reasoning
EPN	Kimms Belt	There was a drop in load forecasts which allows the constraint to be managed by load transfer
EPN	Kings Lynn South Grid	Updated forecasts show need beyond R110-ED2
EPN	Laxfield	Single transformer sites are no longer tendered for flexibility
EPN	Manton Lane	Updated forecasts show need beyond R110-ED2
EPN	Marston Road	There was a drop in load forecasts which allows the constraint to be managed by load transfer
EPN	Melbourn	Updated forecasts show need beyond ED3
EPN	North Drive	There was a drop in load forecasts which allows the constraint to be managed by load transfer
EPN	Ongar	Updated forecasts show need beyond ED3
EPN	Reed	Single transformer sites are no longer tendered for flexibility
EPN	Selwyn Road	There was a drop in load forecasts which allows the constraint to be managed by load transfer
EPN	Stickfast Lane	Single transformer sites are no longer tendered for flexibility
EPN	Takeley	Single transformer sites are no longer tendered for flexibility
EPN	Thaxted	Single transformer sites are no longer tendered for flexibility
EPN	Thorpe Grid 33kV	There was a drop in load forecasts which allows the constraint to be managed by load transfer
EPN	Tiptree	There was a drop in load forecasts which allows the constraint to be managed by load transfer
EPN	Waddesdon	The site has been tendered several times without success, and the reinforcement plans will be included within the ED3 regulatory period.
EPN	White Roding	Single transformer sites are no longer tendered for flexibility
LPN	Ruxley	Updated forecasts show need beyond ED3

Area	Site/Name	DN0A 2025 Removal Reasoning
SPN	Angmering	Updated forecasts show need beyond ED3
SPN	Capel Switching Station	There was a drop in load forecasts which allows the constraint to be managed by load transfer
SPN	D.W.S.	Single transformer sites are no longer tendered for flexibility
SPN	Leysdown	Updated forecasts show need beyond ED3
SPN	Little Chart	There was a drop in load forecasts which allows the constraint to be managed by load transfer
SPN	Rainham	There was a drop in load forecasts which allows the constraint to be managed by load transfer
SPN	Ripe	Single transformer sites are no longer tendered for flexibility
SPN	Rye Grid	Updated forecasts show need beyond ED3
SPN	Sittingbourne Town	Updated forecasts show need beyond ED3
SPN	Smeeth	Updated forecasts show no constraint
SPN	St Helier	There was a drop in load forecasts which allows the constraint to be managed by load transfer
SPN	Sutton B	There was a drop in load forecasts which allows the constraint to be managed by load transfer
SPN	Tunbridge Wells-Pembury	Updated forecasts show need beyond ED3
SPN	West Weybridge	Reinforcement planned to be delivered.
SPN	Warehorne	Single transformer sites are no longer tendered for flexibility
SPN	Warehorne-Kenardington-Tenterden_Wittersham 33kV	There was a drop in load forecasts which allows the constraint to be managed by load transfer
SPN	Wittersham	Single transformer sites are no longer tendered for flexibility
SPN	Wrotham	There was a drop in load forecasts which allows the constraint to be managed by load transfer

CHAPTER 04

HV Reinforcement sites

In this chapter we present information on several reinforcement projects being delivered in our network.



CHAPTER 04

HV Reinforcement sites

In response to stakeholder feedback on the status of reinforcement on UK Power Networks' network, we have added this new chapter.

This chapter will demonstrate a range of cases where reinforcement has occurred or is in flight where flexibility was not considered to be a technically viable solution, for example when the driver is high fault level or the asset health. Asset health driven work cannot be market tested, as flexibility cannot address asset condition issues. We factor asset condition into our long term needs evaluation to combine load and asset driven work when possible to follow the 'touch the network once' principle.

When substantial load growth results from the connection of a large customer, reinforcement work is often scheduled as a prerequisite for the new connection. We are exploring how we can use flexibility to enable these customer connections ahead of reinforcement works being completed in future iterations of the DNOA.

Furthermore, projects where the need is too large, for example the development of a new Grid

Supply Point in partnership with NESO and National Grid Electricity Transmission (NGET), fall outside of the scope of DNOA as the need could not be met with flexibility, and has multiple other drivers.

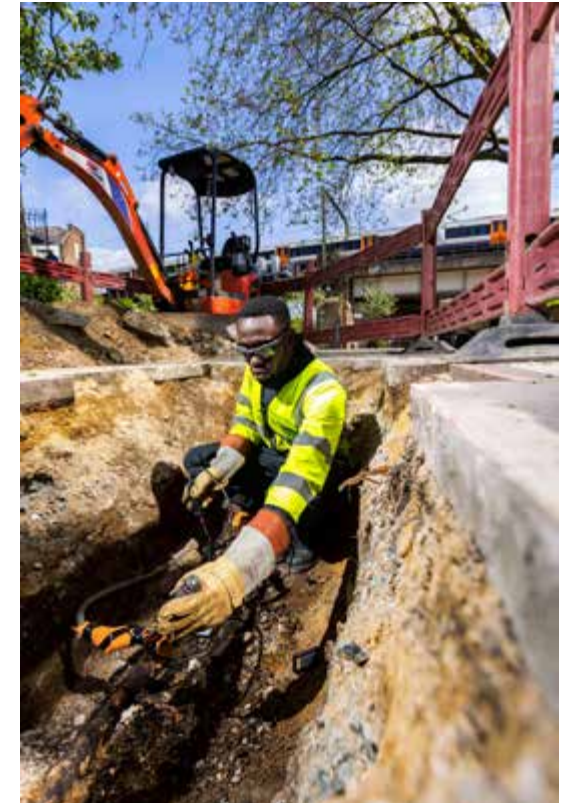
There are also reinforcement projects that follow previous DNOA recommendations, with those constraints not re-entering the process. As a result, these instances are currently excluded from the DNOA process and absent from DNOA reporting.

The below publications provide a more complete view of reinforcement works that increase network capacity:

- Long Term Development Statement (LTDS)
- Network Development Report, which is part of the Network Development Plan suite of documents

Both documents are available via our Open Data Portal at <https://ukpowernetworks.opendatasoft.com/>

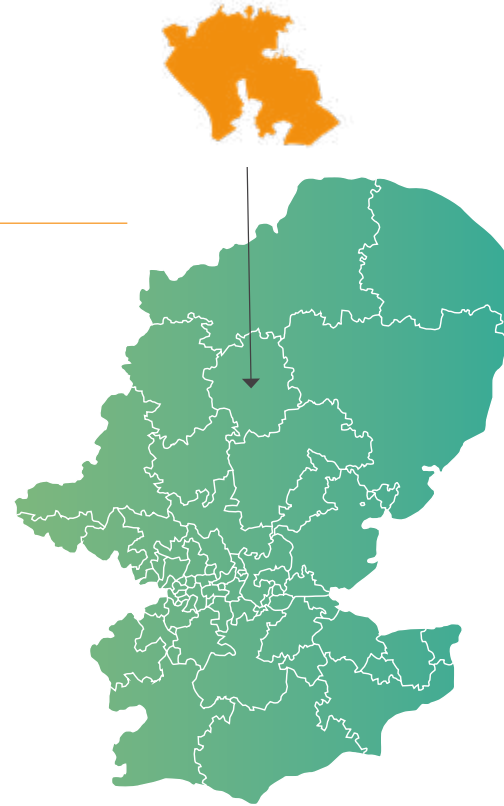
The following pages present selected cases from these publications, illustrating several projects driven by various investment rationales.



East Cambridge

RESP region: Central England
Area: EPN
Postcode: CB22 3FB (TBC on completion)
Investment driver:
 Load related reinforcement.

Constraint overview:
 East Cambridge is set for major growth, with new homes, workplaces, and community facilities incoming. The current electricity network cannot support this demand alone, as there is no 132kV supply point east of Cambridge and Fulbourn cannot meet future needs by itself. Additional network capacity will be necessary, considering access, planning, environmental issues, and land agreements.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

Asset capacity added 90 MVA	+	Customers served TBC on completion	
Expected completion 2027		Local authority Cambridge	

Existing site information	
Associated GSP	Burwell
Existing transformer capacity	-
Existing firm capacity (winter/summer)	-
New firm capacity increase (winter/summer)	117 / 90 MW
Limitations (winter/summer)	Transformer

Preferred option

Reinforcement solution


The preferred option is to construct a new East Cambridge Grid site, including a new transformer, 33kV switchboard and a 132kV connection to Fulbourn. This will provide a long-term solution for the area, supporting new homes, businesses and community infrastructure while helping to keep the wider network reliable.



Other options considered


Flexibility and operational solution

Flexibility and operational measures were considered as part of the options assessment. While these approaches can play an important role in managing some network constraints, in this case they would not address the scale and nature of the capacity requirement or provide a sufficient long-term solution on their own.



Do nothing

This option is not viable, because the existing network would not be able to support expected growth in demand. Over time, this would increase pressure on the system and reduce the network's ability to provide a reliable supply.



Bengeworth Road

RESP region: Greater London

Area: LPN

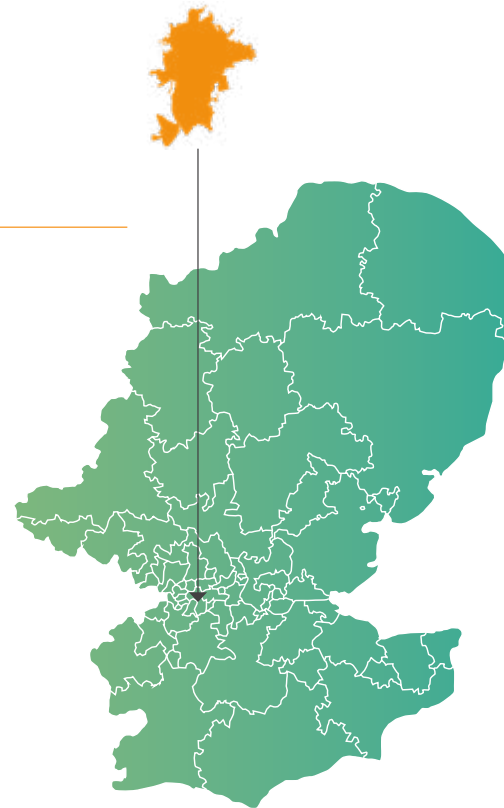
Postcode: SE5 9AJ

Investment driver:

Load and asset health driven reinforcement.

Constraint overview:

Bengeworth Road's aging electricity infrastructure, with equipment from the 1960s, cannot meet South London's rising demand due to new developments and electrification of heat and transport. Space and planning limits restrict upgrades, risking capacity shortages by the early 2030s. A new Grid Supply Point (GSP) will replace old assets and boost supply capacity and reliability for local homes, businesses, and services.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

Asset capacity added 720 MVA		Customers served 104,168	
Expected completion 2030		Local authority Lambeth	 LAEP IMPACT

Existing site information	
Associated GSP	Bengeworth Road 132kV
Existing transformer capacity	-
Existing firm capacity (winter/summer)	-
New firm capacity increase (winter/summer)	553 / 480 MW
Limitations (winter/summer)	Transformer

Preferred option

Reinforcement solution

A new 400/132kV Grid Supply Point will be built at Bengeworth Road, in partnership with NGET. The project works include three 240MVA super-grid transformers, a new indoor GIS switchboard featuring London's first clean-air GIS and will be delivered in several phases. Two double oil-filled cable circuits will be decommissioned. This complex program requires coordination among network operators but aims to ensure South London has reliable, modern, and environmentally friendly electricity for future growth.

Other options considered

Flexibility and operational solution

Flexibility and operational measures were considered as part of the options assessment. While these approaches can play an important role in managing some network constraints, in this case they would not address the scale and nature of the capacity requirement or provide a sufficient long-term solution on their own. In addition, flexibility is not a viable solution to resolve asset health limitations.

Do nothing

This option is not viable, because the network would not be able to accommodate rising demand over the longer term. This would increase the risk of supply interruptions and make the network less resilient for the communities it serves.

Legend: **LAEP IMPACT:** Forecasts enhanced by data from a LAEP

Gibbons Road

RESP region: Greater London

Area: LPN

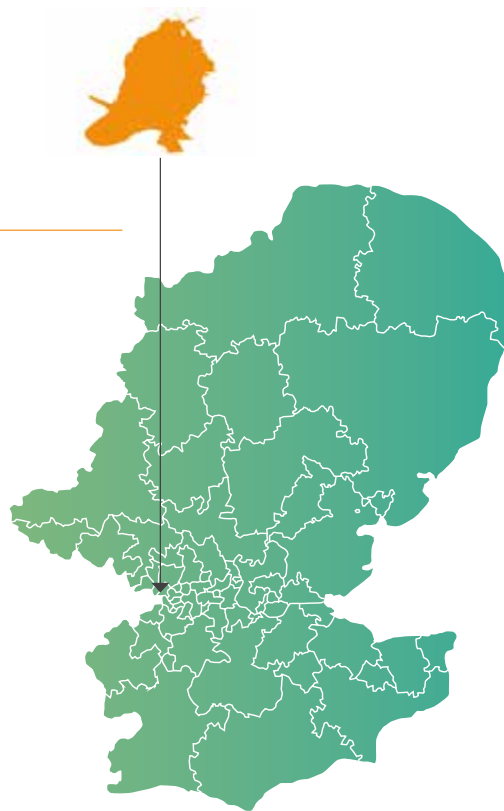
Postcode: NW10 9DH

Investment driver:

Load related reinforcement.

Constraint overview:

Electricity demand is rising in West London, straining the local network. Capacity limits on Scottish and Southern Electricity Networks (SEN) and NGET further restrict supply. To support growth and maintain reliability, new capacity is needed, especially as aging equipment at the site highlights the need for investment to keep the network resilient.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

Asset capacity added
66 MVA



Customers served
46,931



Expected completion
2027



Local authority
Brent



Existing site information

Associated GSP	Willesden Grid 132kV
Existing transformer capacity	3x60 MVA
Existing firm capacity (winter/summer)	147.8 / 125 MW
New firm capacity increase (winter/summer)	219 / 187.5 MW
Limitations (winter/summer)	Switchgear / transformer

Legend:



LAEP IMPACT: Forecasts enhanced by data from a LAEP

Preferred option

Reinforcement solution



The preferred option is to reinforce Gibbons by installing a new transformer, adding new 11kV switchboard sections and creating a new 132kV connection to the Willesden area. This will strengthen the network, provide extra capacity and improve reliability for the homes, businesses and essential services that depend on it.

Other options considered

Flexibility and operational solution



Flexibility and operational measures were assessed as part of the options review. While flexibility continues to play an important role in managing constraints at Willesden Grid (up to 25 MVA is being procured to create short-term capacity) these services alone cannot meet the full scale of the requirement in West London. Flexibility procurement designed to act as a temporary bridge until wider transmission and reinforcement works by SEN and NGET deliver additional capacity. As such, flexibility cannot provide a sufficient long-term solution on its own for this need.

Do nothing



This option is not viable, because the network would not be able to keep pace with rising demand. This would increase the risk of interruptions to supply and make it harder for the network to support local growth.

Ashford Central

RESP region: South East

Area: SPN

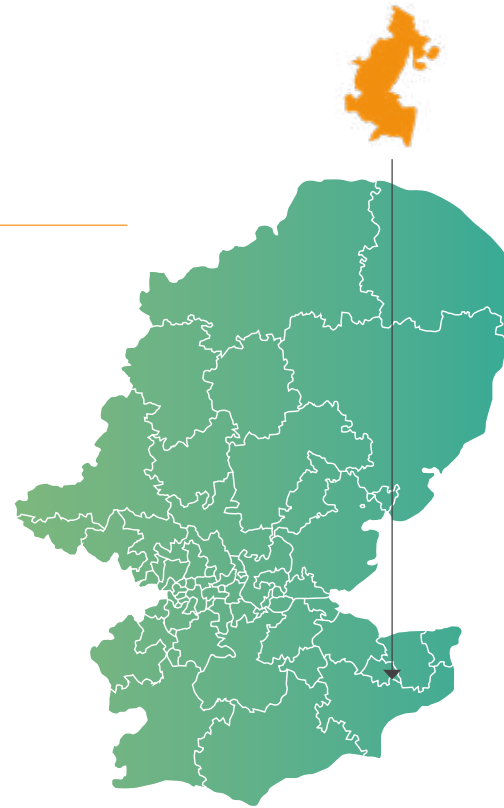
Postcode: TN23 7HQ

Investment driver:

Connection driven reinforcement.

Constraint overview:

Ashford Central primary substation has limited spare capacity, restricting further demand growth. With rising electricity use in the area, reinforcement of both the substation and upstream network is necessary for safety and reliability. Existing system limitations affect upgrade options, making extra network capacity essential for reliable, cost-effective service in the future.



The maps are for indicative purposes. Please use the postcodes for accurate location information.

Asset capacity added 24 MVA	Customers served 13,886
Expected completion 2027	Local authority Ashford

Existing site information	
Associated GSP	Sellidgje SGT2 & 3 & Richborough SGT
Existing transformer capacity	2x16/20 MVA
Existing firm capacity (winter/summer)	22.9 / 20 MW
New firm capacity increase (winter/summer)	45.7 / 38 MW
Limitations (winter/summer)	Transformer circuit breaker/transformer

Preferred option

Reinforcement solution

The preferred option is to reinforce Ashford Central by installing a new transformer, a new 33kV circuit and new HV feeders. This will provide the additional capacity the area needs, helping to support local growth and maintain a reliable electricity supply for the community over the long term.

Other options considered

Flexibility and operational solution

Flexibility and operational measures were considered as part of the options assessment. While these approaches can play an important role in managing some network constraints, in this case they would not address the scale and nature of the capacity requirement or provide a sufficient long-term solution on their own.

Do nothing

This option is not viable because the local electricity network would not be able to cope with growing demand. In practice, that would mean greater strain on the system and a higher risk of disruption to electricity supplies for the homes, businesses and services that rely on it.

Legend: LAEP IMPACT: Forecasts enhanced by data from a LAEP

CHAPTER 05

Whole Systems Use Cases

As we mention in the DNOA Methodology document, our role as a DSO is to coordinate effectively with other sectors within the whole electricity system.

This coordinated approach aims to support the efficient use of existing network capacity across distribution and transmission networks and identify opportunities for whole system solutions to be developed and delivered for the benefit of all GB consumers.

In this DNOA report document, we include an update on the West London capacity release works and flexibility to reduce generation curtailment.

West London

Throughout RII0-ED2, in every flexibility tender round, the DNOA process has driven flexibility procurement for the Willesden Grid 132 kV substation, and the corresponding assessment has been included within each DNOA Report publication. The purpose of Willesden Grid flexibility procurement is to temporarily create capacity at Willesden Grid Supply Point in West

London. This will mitigate connection delays experienced by customers within SSEN's region until they can be reduced as NGET and SSEN construction provides additional capacity. The 25MVA of flexibility requirements are part of a collection of interventions in the West London area to release capacity close to 200 MVA.

Other interventions to release capacity are load transfers and reinforcement of substations (Kimberley and Gibbons Rd). So far the release of 10MVA has been planned through transferring existing demand from Willesden 66kV to Willesden 132kV. Substation reinforcements are forecasted to be completed in the next 2-3 years and will be reassessed annually alongside the procurement of flexibility.

If the full flexibility is not procured, then we have the option to accelerate the construction of the reinforcement works at both Gibbon's Road and Willesden. The DNOA will review the latest forecasts for this area and should capacity fall short of what is required then we will reprofile delivery.

As part of the wider strategy for this region of London, other network changes are planned such as the transfer of Kimberley to Lodge Road 66kV from Acton Lane 22kV GSP, amongst other interventions to secure long-term capacity in this region.

Generation

In recent years we have been utilising flexibility to reduce the curtailment of generation in constrained areas of the network. We do this through day ahead auctions enabling a wider participation and improved NESO-DSO coordination. In these zones we tender for demand turn-up and generation turn-down to improve the matching between demand and generation peaks. This has been successful and we will look to expand this to more zones as an increasing volume of generation connects to the distribution network and utilise our DNOA process to enable this.

² <https://dso.ukpowernetworks.co.uk/mw-dispatch>

CHAPTER 06

LV Demand Results

In this chapter we present the detailed reports for the results of the DNOA process of the EHV/HV generation sites.

CHAPTER 06

LV Demand Results

In the table below, we present the results of the DNOA process for the LV demand sites for this year. More information can be found at UK Power Networks DSO website, in the flexibility hub section³.

For the sites where there was insufficient flexibility available in the market, we are collaborating with the DNO to take necessary action to manage the constraint (ie. install monitoring) in parallel to seeking more flexibility in forthcoming tenders.

Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
EPN	35 Linden Road	2027	1315	10	Sufficient flexibility procured
	Alder Crescent	2026	1315	0	Procure more flex in future tender events
	Anglian Compressors	2026	500	0	Procure more flex in future tender events
	Apex Business Centre	2026	800	0	Procure more flex in future tender events
	Austin Fields	2027	800	0	Procure more flex in future tender events
	Beaumont Estate	2026	1000	10	Sufficient flexibility procured
	Bedford Road	2026	1315	0	Procure more flex in future tender events
	Berkeley Avenue-Chesham South	2026	800	0	Procure more flex in future tender events
	Bonham Road	2026	800	0	Procure more flex in future tender events

Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
EPN	Bradfield Place	2026	800	0	Procure more flex in future tender events
	Broad oak Avenue	2026	500	0	Procure more flex in future tender events
	Broomhall Road	2027	1500	0	Procure more flex in future tender events
	Brownfields No 2	2026	800	0	Procure more flex in future tender events
	Cannon Lane 194	2026	800	35	Sufficient flexibility procured
	Carey Road	2026	1000	0	Procure more flex in future tender events
	Castle Hill	2027	1000	17	Sufficient flexibility procured
	Castle Park	2026	1315	0	Procure more flex in future tender events
	Cawbeck Road	2027	800	18	Sufficient flexibility procured

³Tender Hub - UKPN DSO (<https://dso.ukpowernetworks.co.uk/flexibility/tender-hub>)



Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
EPN	Chartwell Business Park	2027	500	0	Procure more flex in future tender events
	Christchurch Street	2026	800	0	Procure more flex in future tender events
	Church Lane	2027	800	0	Procure more flex in future tender events
	Clitterhouse Road	2027	2000	0	Procure more flex in future tender events
	Colthorpe Road	2027	1000	0	Procure more flex in future tender events
	Commercial Hydraulics	2027	1000	0	Procure more flex in future tender events
	Common Lane	2026	800	0	Procure more flex in future tender events
	Crisp Road	2027	1000	0	Procure more flex in future tender events
	Denby Grange	2026	1000	0	Procure more flex in future tender events
	Depwade Court	2027	800	0	Procure more flex in future tender events
	Downer Road North	2027	800	10	Sufficient flexibility procured
	E E B Depot	2026	500	0	Procure more flex in future tender events
	East	2026	800	0	Procure more flex in future tender events
	Eastdene Drive	2026	1315	0	Procure more flex in future tender events
Eaton Hill	2027	800	10	Sufficient flexibility procured	

Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
EPN	Empire House	2027	500	0	Procure more flex in future tender events
	Enterprise 2000	2026	800	0	Procure more flex in future tender events
	Fairfield Estate	2027	800	0	Procure more flex in future tender events
	Fairfield Road	2027	1315	10	Sufficient flexibility procured
	Ferro Road	2026	800	0	Procure more flex in future tender events
	Ford Road West	2026	1000	0	Procure more flex in future tender events
	Freston Park	2026	800	0	Procure more flex in future tender events
	Gainsborough Drive	2026	1315	0	Procure more flex in future tender events
	Gibbs Close	2027	500	10	Sufficient flexibility procured
	Gowers	2026	800	0	Procure more flex in future tender events
	Guanock Terrace	2026	800	0	Procure more flex in future tender events
	Hamlin Industrial Units	2026	800	0	Procure more flex in future tender events
	Hampton Hargate Vill	2026	1315	10	Sufficient flexibility procured
	Harmill	2026	500	0	Procure more flex in future tender events
	Haselbury Road	2027	800	0	Procure more flex in future tender events



Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
EPN	Haskard Road	2026	800	0	Procure more flex in future tender events
	Hatfield Road	2027	1500	0	Procure more flex in future tender events
	Havant Homes	2027	800	0	Procure more flex in future tender events
	Helen Close	2026	800	0	Procure more flex in future tender events
	Hillside Estate	2026	800	0	Procure more flex in future tender events
	Hyde Park Avenue	2026	800	0	Procure more flex in future tender events
	Kempson Way	2027	800	0	Procure more flex in future tender events
	Kent Road	2026	800	0	Procure more flex in future tender events
	Kilsmore	2026	800	0	Procure more flex in future tender events
	Kimpton Lane	2027	1315	0	Procure more flex in future tender events
	Lamdin Road	2026	500	0	Procure more flex in future tender events
	Lichfield Road	2027	800	10	Sufficient flexibility procured
	Local	2026	1800	101	Sufficient flexibility procured
	Long Road	2026	800	0	Procure more flex in future tender events
Lord Nelson	2026	800	0	Procure more flex in future tender events	

Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
EPN	Lorne Road	2027	1000	0	Procure more flex in future tender events
	Lyon Park Avenue	2026	500	0	Procure more flex in future tender events
	Manor Road	2027	800	0	Procure more flex in future tender events
	Market Pavement	2027	1315	0	Procure more flex in future tender events
	Mayors Wk	2026	800	0	Procure more flex in future tender events
	Midas Centre	2027	800	0	Procure more flex in future tender events
	Mill Lane	2027	800	0	Procure more flex in future tender events
	Mixers Estate Walcott	2027	800	0	Procure more flex in future tender events
	Moor Path	2026	1000	0	Procure more flex in future tender events
	Mount Farm	2027	1000	0	Procure more flex in future tender events
	Murdock Road	2026	800	0	Procure more flex in future tender events
	Myddleton Road	2026	1000	0	Procure more flex in future tender events
	Nacton Road	2026	1000	0	Procure more flex in future tender events
	Necton Management	2027	800	0	Procure more flex in future tender events
Nicholas Road	2026	800	0	Procure more flex in future tender events	



Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
EPN	Nightingale Close	2027	800	0	Procure more flex in future tender events
	Nightingale Piece	2027	800	0	Procure more flex in future tender events
	Norman Way Indust Park	2026	800	0	Procure more flex in future tender events
	North	2027	1000	0	Procure more flex in future tender events
	Nurseries	2026	500	0	Procure more flex in future tender events
	Oak Ave	2027	1315	0	Procure more flex in future tender events
	Old Vicarage	2026	800	0	Procure more flex in future tender events
	Osbourne Square	2026	1000	0	Procure more flex in future tender events
	Park Cres	2027	800	0	Procure more flex in future tender events
	Parkthorne Drive	2026	1000	0	Procure more flex in future tender events
	Pendennis Road	2026	800	0	Procure more flex in future tender events
	Pine Gardens	2026	1315	11	Sufficient flexibility procured
	Pit Road	2027	800	0	Procure more flex in future tender events
	Plumstead Road Estate	2026	1315	0	Procure more flex in future tender events
Queens Park Schools	2026	1000	0	Procure more flex in future tender events	

Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
EPN	Rosedale Way	2026	1000	0	Procure more flex in future tender events
	Rowlands Road	2026	800	0	Procure more flex in future tender events
	Salisbury Folly	2026	800	0	Procure more flex in future tender events
	School	2027	800	24	Sufficient flexibility procured
	Seax Court	2026	800	0	Procure more flex in future tender events
	Shelbourne Road	2026	1000	0	Procure more flex in future tender events
	Sheridan Road	2026	1000	0	Procure more flex in future tender events
	Sollershott Garden	2026	800	11	Sufficient flexibility procured
	South	2026	800	0	Procure more flex in future tender events
	Spinney Gardens	2026	800	0	Procure more flex in future tender events
	St Augustines Avenue	2026	1000	10	Sufficient flexibility procured
	St Margarets Avenue	2026	1500	0	Procure more flex in future tender events
	St Pauls Road	2026	1315	0	Procure more flex in future tender events
	Standen Avenue	2026	800	0	Procure more flex in future tender events
Sterry Road	2026	800	0	Procure more flex in future tender events	



Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
EPN	Stoneyfield Common	2027	1000	0	Procure more flex in future tender events
	Storeys Way Local	2026	800	10	Sufficient flexibility procured
	Strawberry Vale	2026	500	0	Procure more flex in future tender events
	Stuart Road	2026	800	0	Procure more flex in future tender events
	Sturrock Way	2027	500	0	Procure more flex in future tender events
	Sydney Road	2026	800	0	Procure more flex in future tender events
	Talbot Road	2026	800	0	Procure more flex in future tender events
	Tending Avenue Opp No35	2027	1000	10	Sufficient flexibility procured
	The Barn	2026	800	0	Procure more flex in future tender events
	The Dene Adj 56	2026	800	0	Procure more flex in future tender events
	The Saltings	2027	800	0	Procure more flex in future tender events
Thompson Road	2026	1000	0	Procure more flex in future tender events	

Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
EPN	Thornton Road Flats	2026	500	13	Sufficient flexibility procured
	Tower Avenue	2026	1000	0	Procure more flex in future tender events
	Tubeways	2026	800	0	Procure more flex in future tender events
	Village	2027	800	31	Sufficient flexibility procured
	Walcott East	2026	800	0	Procure more flex in future tender events
	Water Lane	2027	800	0	Procure more flex in future tender events
	Wellesley Road	2027	1500	0	Procure more flex in future tender events
	Weltec	2027	1500	0	Procure more flex in future tender events
	Westdene Drive	2027	1315	0	Procure more flex in future tender events
	Winifred Road	2026	1000	0	Procure more flex in future tender events
	Woodside Road	2026	800	0	Procure more flex in future tender events
Yarmouth Road	2026	500	0	Procure more flex in future tender events	



Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
LPN	Abbey Road	2026	1315	0	Procure more flex in future tender events
	Arundel Drive	2026	1000	0	Procure more flex in future tender events
	Ashenden Road	2026	1000	0	Procure more flex in future tender events
	Barb 47-48 Ben Johnson E	2026	1000	0	Procure more flex in future tender events
	Barry Road Halliwell Ct	2026	1000	0	Procure more flex in future tender events
	Battersby Road	2026	1000	0	Procure more flex in future tender events
	Beaumont Pass Boleyn Road	2027	1000	0	Procure more flex in future tender events
	Bilton Road	2026	800	0	Procure more flex in future tender events
	Bishops Terrace	2026	1000	0	Procure more flex in future tender events
	Blissett Street	2026	800	0	Procure more flex in future tender events
	Brenthouse Road	2026	800	0	Procure more flex in future tender events
	Broadmead Road	2026	1315	0	Procure more flex in future tender events
	Brockley Gr S/O 84	2026	1315	0	Procure more flex in future tender events
	Bronte Close 23	2026	1315	0	Procure more flex in future tender events
Carnarvon Road College Pt	2026	800	0	Procure more flex in future tender events	

Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
LPN	Castlecombe Road S/O 66	2026	1315	0	Procure more flex in future tender events
	Cephas St Pemell House	2027	800	0	Procure more flex in future tender events
	Chadwell Ave Wilnett Ct	2026	1000	0	Procure more flex in future tender events
	Charlton Park Lane Lido	2026	1315	0	Procure more flex in future tender events
	Charton Close	2026	1000	10	Sufficient flexibility procured
	Church Rise	2026	1000	0	Procure more flex in future tender events
	Colberg Place	2026	800	0	Procure more flex in future tender events
	Cornthwaite Road	2026	1000	0	Procure more flex in future tender events
	Creeland Gr	2027	1000	0	Procure more flex in future tender events
	Crooked Billet	2026	1000	0	Procure more flex in future tender events
	Crownfield Road	2027	1000	0	Procure more flex in future tender events
	De Beauvoir Road De Beauvoir Ctrl	2027	800	0	Procure more flex in future tender events
	Devon Road Southcott Hse	2027	1000	0	Procure more flex in future tender events
	Devonport Gardens 28	2026	1315	0	Procure more flex in future tender events
	Downton Avenue 32-36	2026	800	0	Procure more flex in future tender events



Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
LPN	Eastern Avenue 567	2026	1315	0	Procure more flex in future tender events
	Fann Street	2026	800	0	Procure more flex in future tender events
	Ferndale Street Merchants Ct	2027	1000	0	Procure more flex in future tender events
	Gaysham Avenue R/O 3	2026	1000	0	Procure more flex in future tender events
	Glencoe Avenue 16	2026	1315	0	Procure more flex in future tender events
	Glyn Road 164	2026	1000	0	Procure more flex in future tender events
	Gooseley Lane	2027	1000	0	Procure more flex in future tender events
	Grumant Road R/O Crane House	2026	800	0	Procure more flex in future tender events
	Harrow Road Barking	2026	1000	0	Procure more flex in future tender events
	Heath St Queen Marys	2026	800	0	Procure more flex in future tender events
	Hercules Road Colwyn Hse	2026	800	0	Procure more flex in future tender events
	Holly Hill Road	2027	800	0	Procure more flex in future tender events
	Hoskins Close Beck Prim Sch	2026	1000	0	Procure more flex in future tender events
	Langdon Road R/O 45	2026	1000	0	Procure more flex in future tender events
Langton Way Lbg Depot	2026	1000	0	Procure more flex in future tender events	

Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
LPN	Lanrick Road Howards	2026	1315	0	Procure more flex in future tender events
	Larbert Road	2026	1000	0	Procure more flex in future tender events
	Lockhurst Street	2026	1315	0	Procure more flex in future tender events
	Longbridge Road 569-599	2027	1000	10	Sufficient flexibility procured
	Lynn Road Opp 48	2027	1000	0	Procure more flex in future tender events
	Manor Road	2026	1315	10	Sufficient flexibility procured
	Marlborough Lane	2026	800	0	Procure more flex in future tender events
	Marlborough Road Erkenwald	2026	1800	0	Procure more flex in future tender events
	Maybury Road R/O 50	2026	800	0	Procure more flex in future tender events
	Meadowview Road S/O 2	2027	1000	0	Procure more flex in future tender events
	Mercers Road 41	2026	1500	0	Procure more flex in future tender events
	Milk Street	2026	1000	0	Procure more flex in future tender events
	Millais Road Adj 143	2026	1500	0	Procure more flex in future tender events
	Milner Road West	2026	800	0	Procure more flex in future tender events
Monks Close	2026	800	0	Procure more flex in future tender events	



Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
LPN	Mordon Road Adj 2	2026	1800	0	Procure more flex in future tender events
	Moundfield Road	2026	1000	0	Procure more flex in future tender events
	Narford Road	2026	1315	0	Procure more flex in future tender events
	Nathan Way Dairy Product	2026	800	0	Procure more flex in future tender events
	Newark St London Hosp Dental No2	2026	800	0	Procure more flex in future tender events
	Newbury Road R/O 24	2026	1000	0	Procure more flex in future tender events
	Northwold Road Estate	2026	1000	0	Procure more flex in future tender events
	Norwich Road	2026	1315	0	Procure more flex in future tender events
	Nutfield Gdns Adj 38	2026	1800	0	Procure more flex in future tender events
	Oakfield Road	2026	1000	0	Procure more flex in future tender events
	Pembroke Road E17	2026	1000	0	Procure more flex in future tender events
	Phipps Bridge Road 273	2026	1000	0	Procure more flex in future tender events
	Pomeroy Street	2026	1000	0	Procure more flex in future tender events
	Poplars Road	2026	800	0	Procure more flex in future tender events
Portway	2026	1500	0	Procure more flex in future tender events	

Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
LPN	Prince Regent Lane 221A	2026	1000	0	Procure more flex in future tender events
	Quantock Road	2026	1000	0	Procure more flex in future tender events
	Raglan Road Mantel Metal	2026	1315	0	Procure more flex in future tender events
	Railton Road Adj 2	2026	1000	0	Procure more flex in future tender events
	Romford Road 165	2026	800	0	Procure more flex in future tender events
	Romford Road 540	2026	1800	0	Procure more flex in future tender events
	Royal Circus	2026	800	0	Procure more flex in future tender events
	Rugby Road Porters Lodge	2026	1000	0	Procure more flex in future tender events
	Sandcliffe Road	2026	1000	0	Procure more flex in future tender events
	Sandy Lane Depot	2026	800	0	Procure more flex in future tender events
	Seymour Avenue 137	2027	1000	13	Sufficient flexibility procured
	Shardeloes Road R/O Yew House	2026	1000	0	Procure more flex in future tender events
	Shortlands 3	2026	800	0	Procure more flex in future tender events
	St Andrews Way Sutherland	2026	1315	0	Procure more flex in future tender events
	Staines Road R/O 73	2026	1000	10	Sufficient flexibility procured



Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
LPN	Stanhope Gardens 71	2026	1000	10	Sufficient flexibility procured
	Tanfield Ave	2026	1315	0	Procure more flex in future tender events
	The Drive 58	2027	1000	0	Procure more flex in future tender events
	Thorold Road R/O 227	2026	1000	0	Procure more flex in future tender events
	Trebovir Road 1-3	2026	800	0	Procure more flex in future tender events
	Twyford Road Adj 31	2026	800	0	Procure more flex in future tender events
	Upper Clapton Road 37-39	2026	800	0	Procure more flex in future tender events
	Upper Holloway Station	2026	800	0	Procure more flex in future tender events
	Upper Wickham Lane R/O 98	2027	1000	0	Procure more flex in future tender events
	Upton Lane Watneys	2026	1315	0	Procure more flex in future tender events

Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
LPN	Valmar Road School	2026	800	0	Procure more flex in future tender events
	Warndon Street	2026	800	0	Procure more flex in future tender events
	Whitecross St Golden Lane Sch	2026	500	0	Procure more flex in future tender events
	Whitehorse Lane Barents House	2026	800	0	Procure more flex in future tender events
	Whitings Oaks Lane	2026	800	12	Sufficient flexibility procured
	Windsor Road 1	2026	1000	0	Procure more flex in future tender events
	Woodbury Road Girls Sch	2026	800	0	Procure more flex in future tender events
	Woodville Gardens 2	2026	1000	0	Procure more flex in future tender events
	Wren Road	2027	800	0	Procure more flex in future tender events



Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
SPN	20-22 The Green	2026	500	0	Procure more flex in future tender events
	Alfred Road	2026	1315	0	Procure more flex in future tender events
	Ashburton Estate	2026	1315	0	Procure more flex in future tender events
	Augusta Gardens	2026	800	0	Procure more flex in future tender events
	Barton House (Risk Site C)	2026	800	0	Procure more flex in future tender events
	Brittenden Close	2026	800	0	Procure more flex in future tender events
	Bute Court	2026	1000	0	Procure more flex in future tender events
	Butlers Place	2026	800	0	Procure more flex in future tender events
	Camac Road	2026	1315	0	Procure more flex in future tender events
	Central Court	2026	800	0	Procure more flex in future tender events
	Chestnut Way	2027	800	0	Procure more flex in future tender events
	Church Lane	2027	800	10	Sufficient flexibility procured
	Coldharbour Road	2026	1000	0	Procure more flex in future tender events
	Downe	2026	500	0	Procure more flex in future tender events
Downmere	2026	500	0	Procure more flex in future tender events	

Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
SPN	Edgehill Road	2026	1315	0	Procure more flex in future tender events
	Eldon Park	2026	1315	0	Procure more flex in future tender events
	Eleanor Avenue	2026	800	0	Procure more flex in future tender events
	Elm Grove Parade	2026	1000	0	Procure more flex in future tender events
	Farleigh Avenue	2026	1000	0	Procure more flex in future tender events
	Freeland Avenue (Risk Site B)	2026	1315	0	Procure more flex in future tender events
	Garrison	2026	500	0	Procure more flex in future tender events
	General Gordon (Risk Site B)	2026	1315	0	Procure more flex in future tender events
	Glenthorne Gardens	2026	1000	22	Sufficient flexibility procured
	Grant Road (Risk Site B)	2026	1315	0	Procure more flex in future tender events
	Hanover Place	2026	800	0	Procure more flex in future tender events
	High Street	2026	800	15	Sufficient flexibility procured
	Highfield Road	2026	800	25	Sufficient flexibility procured
	Hillcote Avenue	2026	1315	0	Procure more flex in future tender events
J Wilson Ind Thanet Way	2026	800	0	Procure more flex in future tender events	



Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
SPN	James Street	2026	800	0	Procure more flex in future tender events
	Jeffs Road	2026	800	10	Sufficient flexibility procured
	Kings Barn Lane West	2027	800	10	Sufficient flexibility procured
	Kings Way North	2026	800	14	Sufficient flexibility procured
	Kynaston Avenue	2026	1315	0	Procure more flex in future tender events
	Lower Guildford Road	2026	800	10	Sufficient flexibility procured
	Maidstone Road	2026	1000	26	Sufficient flexibility procured
	Mill Road	2027	1315	10	Sufficient flexibility procured
	North Looe	2026	500	10	Sufficient flexibility procured
	Ockenden Lane	2026	800	0	Procure more flex in future tender events
	Orleans Road	2027	1000	0	Procure more flex in future tender events
	Parchmore Road	2026	1000	0	Procure more flex in future tender events
	Penrith Road	2026	1315	0	Procure more flex in future tender events
	Pollards Hill North	2026	1315	0	Procure more flex in future tender events
Priory Road	2026	1315	0	Procure more flex in future tender events	

Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
SPN	Queens Road Wallington	2026	1315	0	Procure more flex in future tender events
	Queensfield	2026	1315	0	Procure more flex in future tender events
	R/O 66 Outram Road	2026	500	0	Procure more flex in future tender events
	Rear Of 46 Maple Road	2026	800	0	Procure more flex in future tender events
	Regina Road (Risk Site B)	2026	800	0	Procure more flex in future tender events
	Rickman Hill	2026	1315	0	Procure more flex in future tender events
	Rope Walk	2026	500	0	Procure more flex in future tender events
	Ryfield Road	2026	800	0	Procure more flex in future tender events
	S P D	2026	500	0	Procure more flex in future tender events
	Selbourne Road (Risk Site B)	2027	800	0	Procure more flex in future tender events
	Selhurst Well	2026	1500	0	Procure more flex in future tender events
	Sillwood Street Cavendish House	2026	800	0	Procure more flex in future tender events
	Stanton Road	2026	1315	0	Procure more flex in future tender events
	Stoney Lane	2027	800	0	Procure more flex in future tender events
Sun Lane	2026	800	0	Procure more flex in future tender events	



Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
SPN	Swanscombe Street	2027	1315	0	Procure more flex in future tender events
	Titian Road	2027	800	0	Procure more flex in future tender events
	Towers View	2026	1315	0	Procure more flex in future tender events
	Towers View	2026	1800	0	Procure more flex in future tender events
	United Dairies	2026	800	0	Procure more flex in future tender events
	Villiers Avenue	2026	1000	12	Sufficient flexibility procured
	Walton Road (Church Farm School)	2026	800	0	Procure more flex in future tender events
	Warham Road	2026	800	0	Procure more flex in future tender events

Area	Substation Name	Constraint Year	Deferred Transformer Size (kVA)	TR11 Flex Capacity Awarded (kW)	DNOA Result
SPN	Westgate Road	2026	800	0	Procure more flex in future tender events
	Whitehall Road	2026	1000	0	Procure more flex in future tender events
	Whitehawk School	2026	800	0	Procure more flex in future tender events
	Wickham Court	2026	800	10	Sufficient flexibility procured
	Wolsey Drive	2026	800	17	Sufficient flexibility procured
	Woodlands	2027	1000	10	Sufficient flexibility procured
	Wrythe Lane Ind Site	2026	800	0	Procure more flex in future tender events

CHAPTER 07

Definitions and acronyms



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Term	Definition
CF	Counterfactual
DER	Distributed Energy Resources
DFES	Distribution Future Energy Scenarios
DG	Distribution Generation
DNO	Distribution Network Operator
DNOA	Distribution Network Options Assessment
DSO	Distribution System Operator
EE	Electric Engagement
EHV	Extra High Voltage
EPN	Eastern Power Networks
FES	Future Energy Scenarios
GB	Great Britain
GIS	Gas Insulated Switchgear
GSP	Global Supply Point

Term	Definition
HE	Hydrogen Evolution
HT	Holistic Transition
HV	High Voltage
LA	Local Authority
LAEP	Local Area Energy Plan
LPN	London Power Networks
LV	Low Voltage
NESO	National Energy System Operator
NGET	National Grid Electricity Transmission
OHL	Overhead line
SPN	South Eastern Power Networks
SSEN	Scottish and Southern Electricity Networks
tRESP	transitional Regional Energy Strategic Plan