Distribution Network Options Assessment (DNOA) Reports

MARCH 2024 | SECOND EDITION

DSO DISTRIBUTION SYSTEM OPERATOR

UK Power Networks Delivering your electricity

CHAPTER 01

Executive Summary

UK Power Networks' vision is to deliver a fit for purpose electricity network for the energy transition 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 recommendations on provision of future network capacity are made in the interest of all UK Power Networks customers. Hence, we were first to set up an independent DSO Supervisory Board in 2023, as part of our operating model. Hence, our DSO will be at the heart of facilitating the lowest cost transition to Net Zero, whilst supporting clean economic growth. Also, we are and will continue to publish new granular data on our capacity needs and investment recommendation making throughout the RIIO-ED2 period.

In June 2023 we published our Distribution Network Options Assessment (DNOA) methodology[1]. This set the basis for our RIIO-ED2 enduring commitment to market-test all load related[2] network needs that would otherwise lead to capital expenditure (capex). In principle, our DNOA methodology establishes a level playing field between network and market-based solutions on an enduring basis. Through our engagement with our DSO Supervisory Board and other stakeholders, including the Electricity System Operator (ESO), flexibility providers and other Distribution Network Operators (DNOs), we developed further enhancements that led to our November 2023 consultation[3]. We have now integrated all these enhancements and feedback in this second version of the DNOA.

As part of our annual DNOA publication cycle, we issue two documents:

- **The first contains the DNOA Methodology.** It explains all the dedicated governance processes for making recommendations. This year, we have expanded our methodology beyond HV demand constraints to include HV generation constraints and LV demand.
- **The second presents the results of the DNOA process in the form of reports.** This document is this second part of the DNOA publication.

[1] https://www.ukpowernetworks.co.uk/our-company/distribution-network-options-assessment-dnoa
[2] The term often used is Load Related Reinforcement (LRR) and indicates investment to create new network capacity.
[3] https://media.umbraco.io/uk-power-networks/fnzldp2c/dnoa-methodology-enhancement-nov-2023.pdf

In this document, we are presenting reports for the sites that flexibility was identified as a technically feasible solution and the market was tested in the latest flexibility tender event.

The numbers are as follows:

HV demand: 64 sites[4]

HV generation: 37 sites

LV demand: 354 sites

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

Type	Site / Name	License area	Constraint Year	DNOA Result	DNOA Stage
Demand	Aldreth	EPN	2024	Flexibility	Flexibility procurement
	Alresford	EPN	2025	Flexibility	Flexibility procurement
	Aylesbury Group	EPN	2026	Flexibility	Flexibility procurement
	Barsham	EPN	2026	Flexibility	Flexibility procurement
	Bramford Diss Thetford	EPN	2024	Flexibility	Flexibility procurement
	Brington	EPN	2024	Reinforce with Flexibility	Reinforcement delivery
	Caister	EPN	2026	Flexibility	Flexibility procurement
	Cockfosters	EPN	2024	Reinforce with Flexibility	Reinforcement delivery

Type	Site / Name	License area	Constraint Year	DNOA Result	DNOA Stage
Demand	Croydon	EPN	2024	Reinforce with Flexibility	Reinforcement delivery
	Diss Grid	EPN	2026	Flexibility	Flexibility procurement
	East Enfield	EPN	2024	Flexibility	Flexibility procurement
	Godmanchester	EPN	2024	Flexibility	Flexibility procurement
	Guyhirn	EPN	2024	Flexibility	Flexibility procurement
	Halesworth Primary	EPN	2024	Flexibility	Flexibility procurement
	Halstead	EPN	2024	Flexibility	Flexibility procurement
	Hendon Way	EPN	2024	Flexibility	Flexibility procurement

[4] 3 of those sites needs were previously fully procured for.

Type	Site / Name	License area	Constraint Year	DNOA Result	DNOA Stage
Demand	Hilton	EPN	2026	Flexibility	Flexibility procurement
	Kenninghall	EPN	2024	Flexibility	Flexibility procurement
	Kimbolton	EPN	2024	Reinforce with Flexibility	Reinforcement delivery
	Kimms Belt	EPN	2024	Flexibility	Flexibility procurement
	Laxfield	EPN	2024	Flexibility	Flexibility procurement
	Manton Lane	EPN	2026	Flexibility	Flexibility procurement
	March Primary	EPN	2025	Flexibility	Flexibility procurement
	Rainbow Lane	EPN	2026	Flexibility	Flexibility procurement
	Reed	EPN	2024	Reinforce with Flexibility	Reinforcement delivery
	Rickmansworth	EPN	2026	Flexibility	Flexibility procurement
	Selwyn Road	EPN	2024	Reinforce with Flexibility	Reinforcement delivery
	St Anthony St	EPN	2024	Flexibility	Flexibility procurement
	Stickfast Lane	EPN	2024	Reinforce with Flexibility	Reinforcement delivery
	Takeley	EPN	2024	Flexibility	Flexibility procurement
	Thaxted Local	EPN	2024	Reinforce with Flexibility	Reinforcement delivery

Type	Site / Name	License area	Constraint Year	DNOA Result	DNOA Stage
Demand	Trowse Grid	EPN	2026	Flexibility	Flexibility procurement
	Uplands Park	EPN	2026	Flexibility	Flexibility procurement
	West Horndon	EPN	2024	Reinforce with Flexibility	Reinforcement delivery
	White Roding	EPN	2024	Flexibility	Flexibility procurement
	Wisbech Railway	EPN	2024	Flexibility	Flexibility procurement
	Worstead	EPN	2024	Flexibility	Flexibility procurement
	Bow	LPN	2025	Flexibility	Flexibility procurement
	Lithos Road	LPN	2025	Flexibility	Flexibility procurement
	Whiston Road	LPN	2024	Reinforce with Flexibility	Reinforcement delivery
	Willesden Grid GSP	LPN	2024	Flexibility	Flexibility procurement
	Barming	SPN	2024	Flexibility	Flexibility procurement
	Capel Switching Station	SPN	2024	Flexibility	Flexibility procurement
	Capel	SPN	2025	Flexibility	Flexibility procurement
	Cobham	SPN	2024	Flexibility	Flexibility procurement
	Croydon B	SPN	2024	Flexibility	Flexibility procurement

Type	Site / Name	License area	Constraint Year	DNOA Result	DNOA Stage
Demand	Edenbridge	SPN	2024	Flexibility	Flexibility procurement
	Hurstpierpoint	SPN	2026	Flexibility	Flexibility procurement
	Leysdown	SPN	2024	Flexibility	Flexibility procurement
	Little Chart	SPN	2024	Flexibility	Flexibility procurement
	Medway Grid	SPN	2024	Flexibility	Flexibility procurement
	Rainham	SPN	2026	Flexibility	Flexibility procurement
	Ripe	SPN	2025	Flexibility	Flexibility procurement
	Rye	SPN	2024	Flexibility	Flexibility procurement
	Smeeth	SPN	2024	Flexibility	Flexibility procurement
	St Helier	SPN	2024	Flexibility	Flexibility procurement
	Steel Cross	SPN	2024	Flexibility	Flexibility procurement
	Tunbridge Wells Group	SPN	2024	Flexibility	Flexibility procurement
	West Weybridge	SPN	2025	Flexibility	Flexibility procurement
	Warehorne	SPN	2024	Flexibility	Flexibility procurement

Type	Site / Name	License area	Constraint Year	DNOA Result	DNOA Stage
Demand	Warehorne Group	SPN	2024	Flexibility	Flexibility procurement
	Wingham	SPN	2024	Flexibility	Flexibility procurement
	Wittersham	SPN	2024	Reinforce with Flexibility	Reinforcement delivery
	Wrotham	SPN	2024	Flexibility	Flexibility procurement
Generation	Benhall	EPN	2024	Flexibility	Flexibility procurement
	Braintree Local	EPN	2024	Flexibility	Flexibility procurement
	Bramford	EPN	2024	Flexibility	Flexibility procurement
	Burnham Thorpe	EPN	2024	Flexibility	Flexibility procurement
	Bury Grid	EPN	2024	Flexibility	Flexibility procurement
	Bury Grid 1	EPN	2024	Flexibility	Flexibility procurement
	Bury Grid 2	EPN	2024	Flexibility	Flexibility procurement
	Earlham Norwich	EPN	2024	Flexibility	Flexibility procurement
	Eye	EPN	2024	Flexibility	Flexibility procurement

Type	Site / Name	License area	Constraint Year	DNOA Result	DNOA Stage
Generation	Farcet 1	EPN	2024	Flexibility	Flexibility procurement
	Farcet 2	EPN	2024	Flexibility	Flexibility procurement
	Frinton	EPN	2024	Flexibility	Flexibility procurement
	Halesworth	EPN	2024	Flexibility	Flexibility procurement
	Halesworth Market Grid	EPN	2024	Flexibility	Flexibility procurement
	Hempton Grid	EPN	2024	Flexibility	Flexibility procurement
	Landbeach 1	EPN	2024	Flexibility	Flexibility procurement
	Landbeach 2	EPN	2024	Flexibility	Flexibility procurement
	Lawford 1	EPN	2024	Flexibility	Flexibility procurement
	Lawford 2	EPN	2024	Flexibility	Flexibility procurement
	Little Barford/ Offord	EPN	2024	Flexibility	Flexibility procurement
	March Grid	EPN	2024	Flexibility	Flexibility procurement
	Perry/Little Barford/Kimbolton	EPN	2024	Flexibility	Flexibility procurement
	Peterborough Grid	EPN	2024	Flexibility	Flexibility procurement

Type	Site / Name	License area	Constraint Year	DNOA Result	DNOA Stage
Generation	Purfleet Grid	EPN	2024	Flexibility	Flexibility procurement
	Rayleigh Main	EPN	2024	Flexibility	Flexibility procurement
	Sall / West Beckham	EPN	2024	Flexibility	Flexibility procurement
	Sall Grid	EPN	2024	Flexibility	Flexibility procurement
	Swaffham Grid	EPN	2024	Flexibility	Flexibility procurement
	Warley Grid	EPN	2024	Flexibility	Flexibility procurement
	Whittlesey Chatteris 1	EPN	2024	Flexibility	Flexibility procurement
	Whittlesey Chatteris 2	EPN	2024	Flexibility	Flexibility procurement
	Worstead (generation)	EPN	2024	Flexibility	Flexibility procurement
	Wroxham	EPN	2024	Flexibility	Flexibility procurement
	Betteshanger Grid	SPN	2024	Flexibility	Flexibility procurement
	Richborough 1	SPN	2024	Flexibility	Flexibility procurement
	Richborough 2	SPN	2024	Flexibility	Flexibility procurement
	Sellindge Local	SPN	2024	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.

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Aldreth

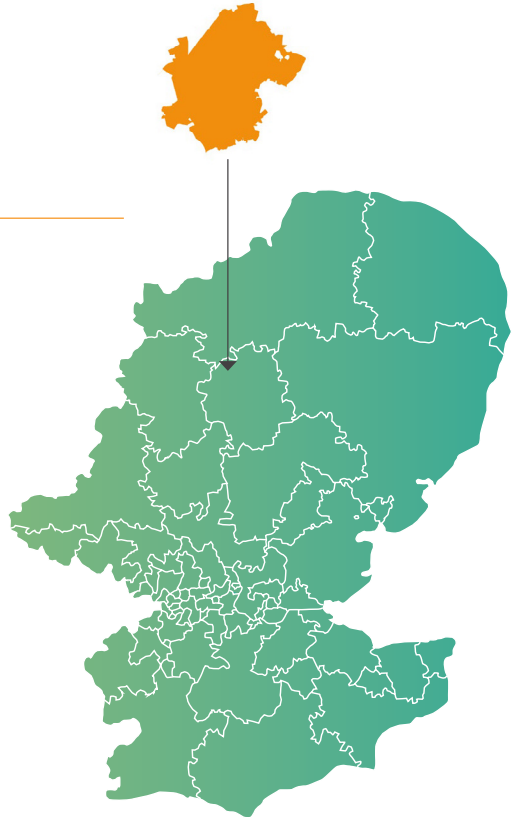
Area: EPN
Postcode: CB6 3PJ

Constraint description:

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

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.

Constraint season
Winter

Constraint year
2024

Flex revenue range £/MW
£17,500 - £25,000

Customers served
7,698

Current status
Flexibility procurement

Local authority
East Cambridgeshire South Cambridgeshire

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
⇅	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.7	1.2	1.7	2.4	3.3
ST	1.1	1.7	2.2	2.8	3.4
LW	0.7	1.2	1.9	2.5	3.1
FS	1.1	1.6	2.2	2.7	3.3
FLEX	60%	40%	40%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

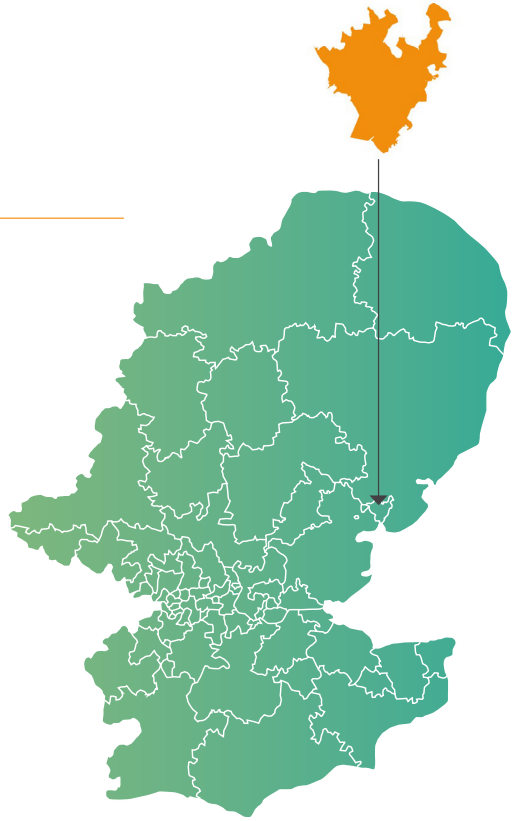
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Alresford

Area: EPN
Postcode: CO7 8DG

Constraint description:
The 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 transformers.



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

Constraint season **Winter/Summer**	Constraint year **2025**	Flex revenue range £/MW **£65,100 - £93,000**
Customers served **8,499**	Current status **Flexibility procurement**	Local authority **Colchester Tendring**

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT		0.1	0.8	1.7	2.7
ST		0.6	1.3	2.2	3.1
LW		0.1	1.1	2.0	2.8
FS		0.6	1.4	2.2	3.1
FLEX		>100%	>100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

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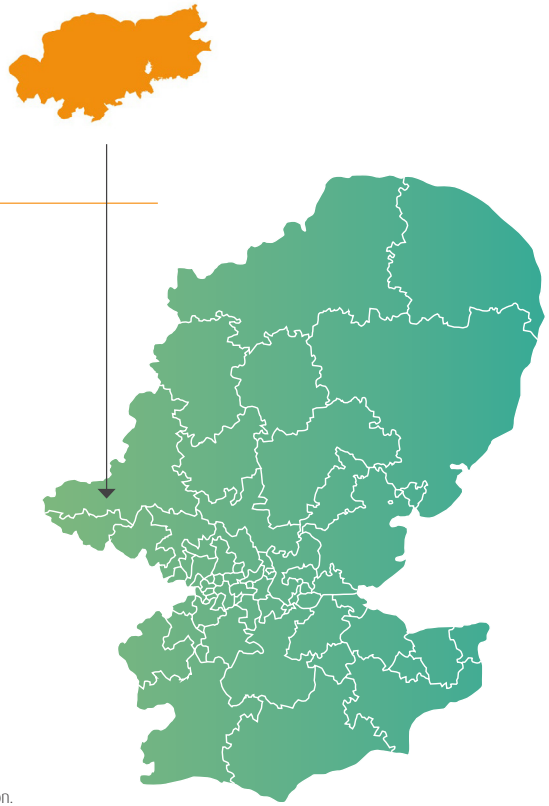
Aylesbury Group



Area: EPN
Postcode: HP22 5AT

Constraint description:
The loading on the 33kV circuits is expected to exceed the circuit capacity under an N-1 outage condition.

Traditional solution:
In order to increase capacity at the site a proposed solution is to install two new 33kv circuits from Aylesbury East Grid to Buckingham Road Primary.

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

Constraint season **Winter**	Constraint year **2026**	Flex revenue range £/MW **£56,000 - £80,000**
Customers served **17,152**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/ 2025	2025/ 2026	2026/ 2027	2027/ 2028	2028/ 2029
CT			0.5	3.4	6.3
ST			1.5	4.1	7.0
LW			0.8	3.7	6.4
FS			1.4	3.9	6.3
FLEX			90%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Barsham

Area: EPN
Postcode: NR34 8HF

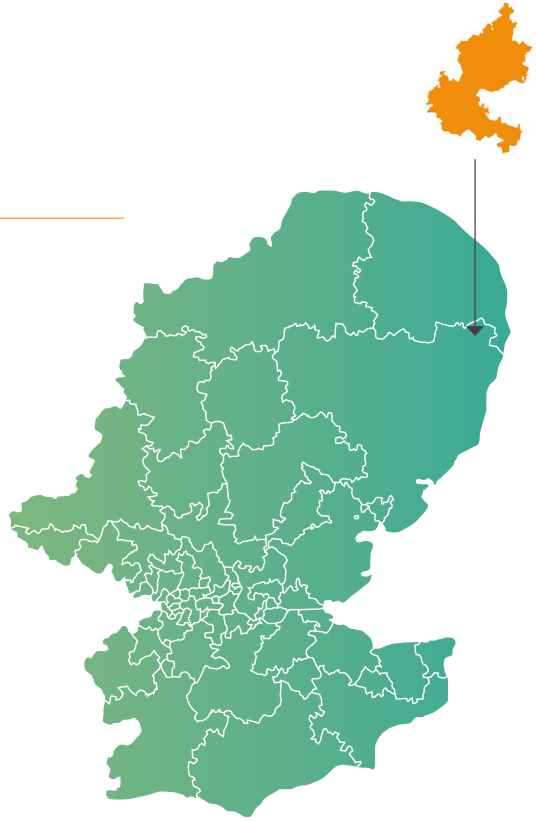
Constraint description:

The 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
- Replace the 11kV switchgear.



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

Constraint season
Summer

Constraint year
2026

Flex revenue range £/MW
£70,000 - £100,000

Customers served
3,014

Current status
Flexibility procurement

Local authority
East Suffolk
South Norfolk

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT			0.1	0.2	0.2
ST	0.0	0.2	0.3	0.4	0.5
LW			0.1	0.2	0.3
FS	0.1	0.2	0.4	0.5	0.7
FLEX			>100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Bramford Diss Thetford

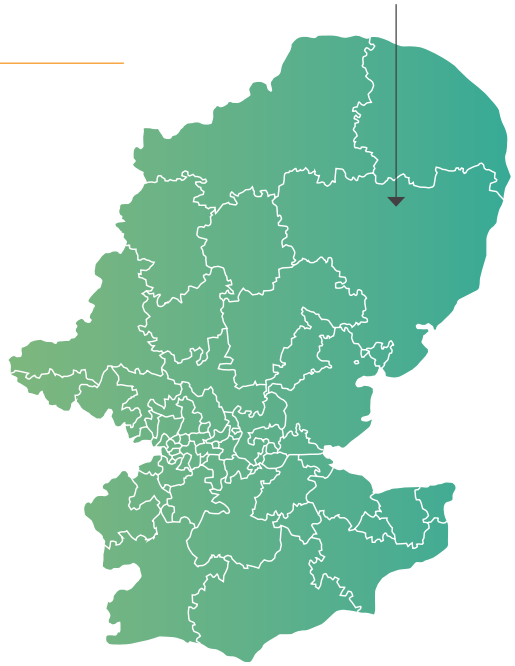
Area: EPN
Postcode: IP22 4AU

Constraint description:

The loading on the 132kV circuits is expected to exceed the circuit capacity under an N-1 outage condition.

Traditional solution:

In order to increase capacity at the site a proposed solution is to replace the 132kV oil filled cables between Bramford GSP and the start of the overhead lines towards Diss & Thetford.



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

Constraint season
Summer

Constraint year
2024

Flex revenue range £/MW
£7,700 - £11,000

Customers served
55,371

Current status
Flexibility procurement

Local authority
East Suffolk South Norfolk

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
⇅	⇅				

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

	2024/ 2025	2025/ 2026	2026/ 2027	2027/ 2028	2028/ 2029
CT	4.4	6.4	9.0	12.9	19.0
ST	6.7	9.2	12.1	15.6	21.1
LW	4.9	7.6	10.6	13.9	18.4
FS	7.2	9.6	12.1	14.6	18.0
FLEX	30%	30%	30%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Brington

Area: EPN
Postcode: PE28 5AD

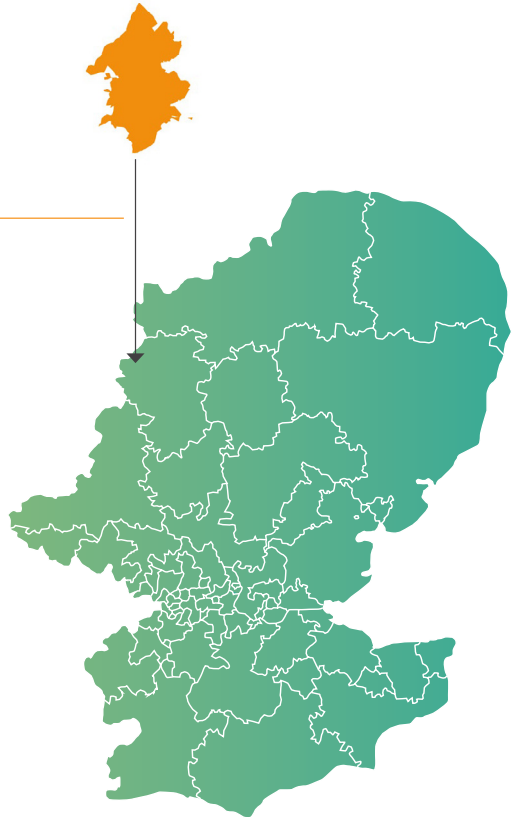
Constraint description:

The site only has a single transformer and is expected to be overloaded under an N-1 outage condition due to limited 11kV interconnection capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to:

- Install a new 11kV circuit between Brington and Kimbolton
- Replace the existing transformer at Kimbolton.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex revenue range £/MW
£9,100 - £13,000

Customers served
1,722

Current status
Reinforcement delivery

Local authority
Huntingdonshire

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender.
We will progress the reinforcement scheme and use flexibility to manage the system needs while reinforcement is being delivered.

DNOA result history:

2023	2024	2025	2026	2027	2028

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

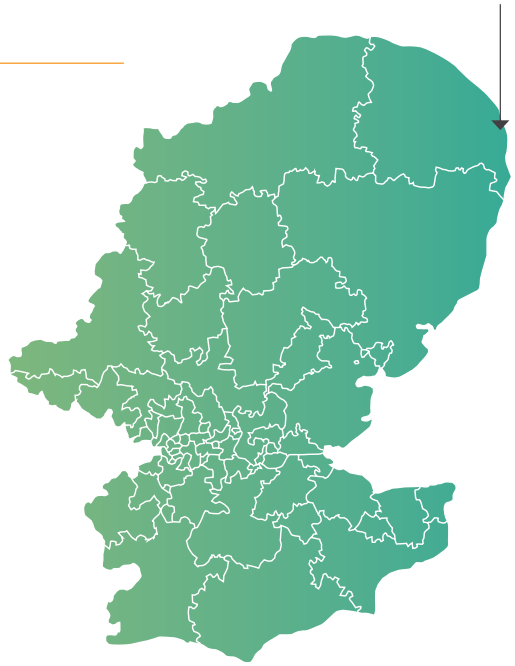
	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	4.3	4.4	4.6	4.8	4.9
ST	4.4	4.6	4.7	4.9	5.0
LW	4.3	4.6	4.9	5.0	5.2
FS	4.5	4.5	4.7	4.8	5.0
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Caister



Area: EPN
Postcode: NR30 5TE

Constraint description:

The 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 increase the 11kV circuit capacity between Caister and Great Yarmouth Grid to allow demand to be transferred from Caister to Gt Yarmouth.

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

Constraint season
Summer

Constraint year
2026

Flex revenue range £/MW
£38,500 - £55,000

Customers served
10,274

Current status
Flexibility procurement

Local authority
Broadland Great Yarmouth

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/ 2025	2025/ 2026	2026/ 2027	2027/ 2028	2028/ 2029
CT			0.4	1.1	1.8
ST		0.1	0.7	1.4	2.0
LW		0.0	0.6	1.2	1.7
FS		0.1	0.5	1.1	1.6
FLEX			>100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Cockfosters

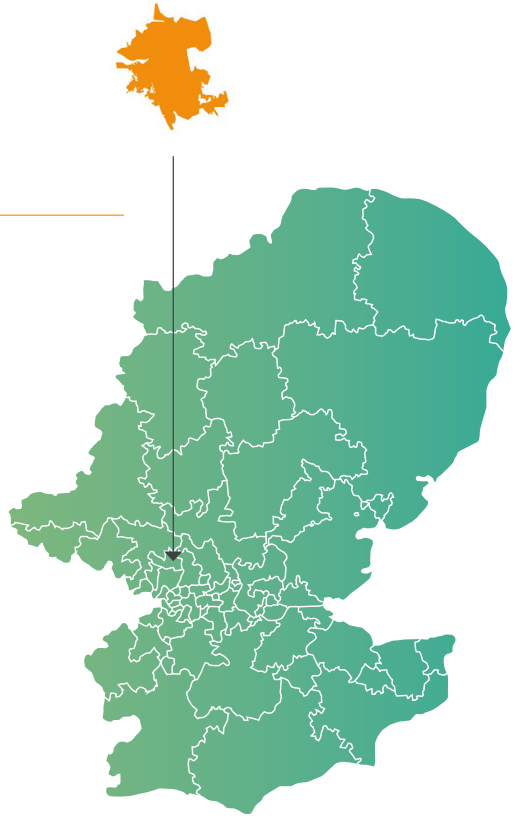
Area: EPN
Postcode: EN4 9HT

Constraint description:

The 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 lower capacity transformer at Cockfosters Primary.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex revenue range £/MW **£2,800 - £4,000**
Customers served **13,400**	Current status **Reinforcement delivery**	Local authority **Barnet Enfield**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will progress the reinforcement scheme and use flexibility to manage the system needs while reinforcement is being delivered.

DNOA result history:

2023	2024	2025	2026	2027	2028

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	4.6	5.3	6.3	7.3	8.4
ST	5.1	5.9	6.9	8.0	9.1
LW	4.7	5.6	6.8	7.8	8.7
FS	5.0	5.7	6.5	7.3	8.1
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Croydon

Area: EPN
Postcode: SG8 0DN

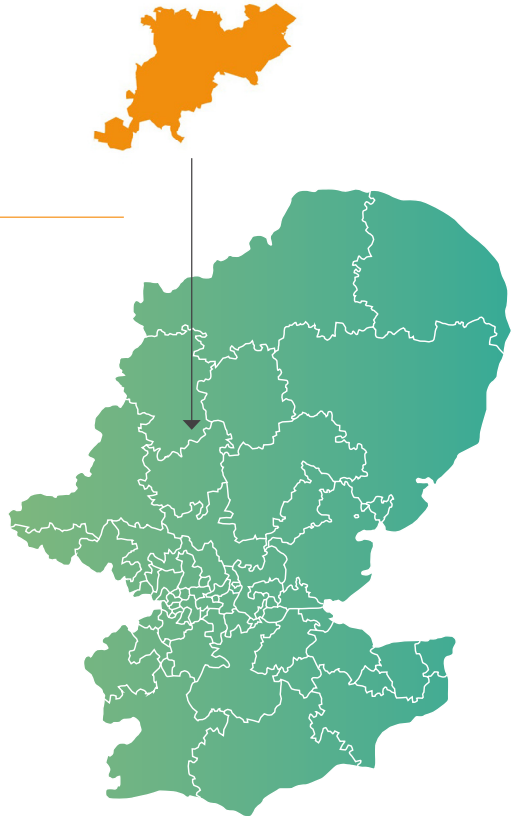
Constraint description:

The site only has a single transformer and is expected to be overloaded under an N-1 outage condition due to limited 11kV interconnection capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to:

- Replace the existing transformer
- Install an additional transformer.



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

Constraint season: **Winter**	Constraint year: **2024**	Flex revenue range £/MW: **£9,800 - £14,000**
Customers served: **2,116**	Current status: **Reinforcement delivery**	Local authority: **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will progress the reinforcement scheme and use flexibility to manage the system needs while reinforcement is being delivered.

DNOA result history:

2023	2024	2025	2026	2027	2028
↕	🔒 ↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	2.8	3.0	3.2	3.5	3.7
ST	2.9	3.1	3.3	3.5	3.6
LW	2.8	3.1	3.4	3.6	3.8
FS	3.0	3.1	3.3	3.4	3.6
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

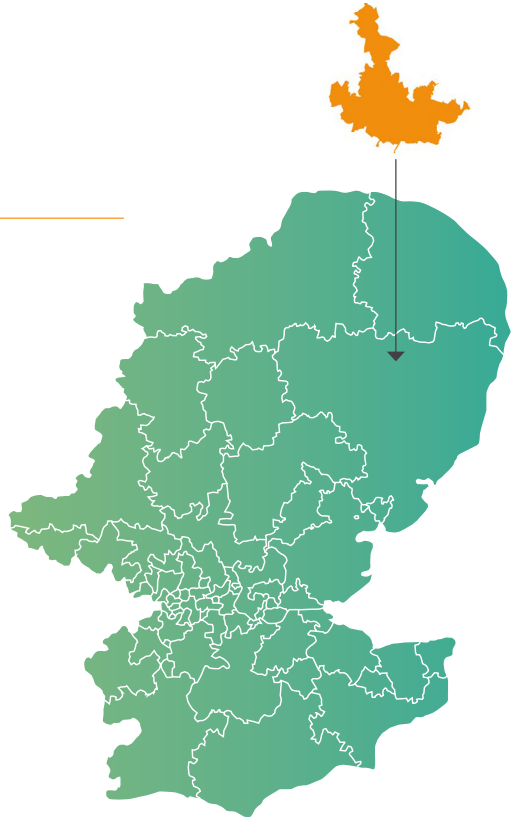
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Diss Grid

Area: EPN
Postcode: IP22 4AU

Constraint description:
The 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
- Replace the 11kV switchgear.



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

Constraint season
Summer

Constraint year
2026

Flex revenue range £/MW
£70,000 - £100,000

Customers served
8,714

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT			0.2	1.0	2.0
ST			0.5	1.3	2.1
LW			0.6	1.4	2.0
FS			0.2	0.8	1.5
FLEX			100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

East Enfield

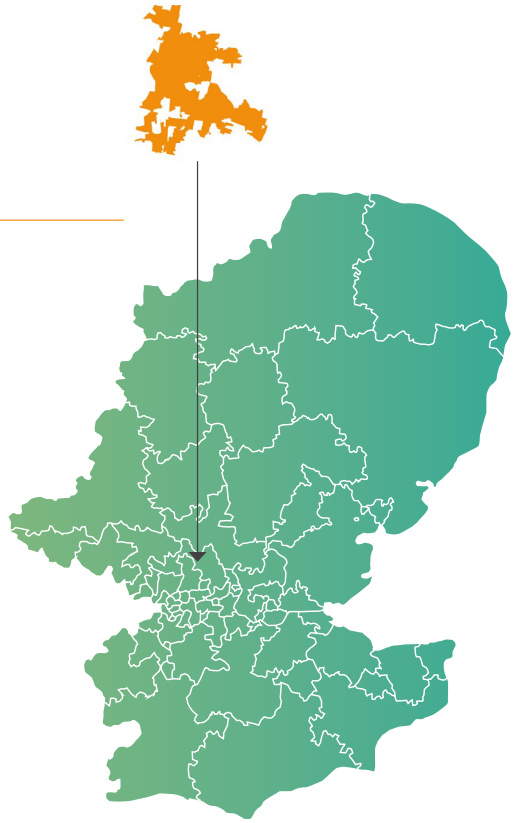
Area: EPN
Postcode: EN1 1TH

Constraint description:

The 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 transformers.



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

Constraint season
Summer

Constraint year
2026

Flex revenue range £/MW
£50,400 - £72,000

Customers served
7,193

Current status
Flexibility procurement

Local authority
Enfield

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.6	0.6	0.6	0.7	0.7
ST	0.9	1.1	1.2	1.3	1.4
LW	0.6	0.6	0.7	0.7	0.7
FS	1.0	1.2	1.3	1.5	1.6
FLEX	40%	50%	70%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

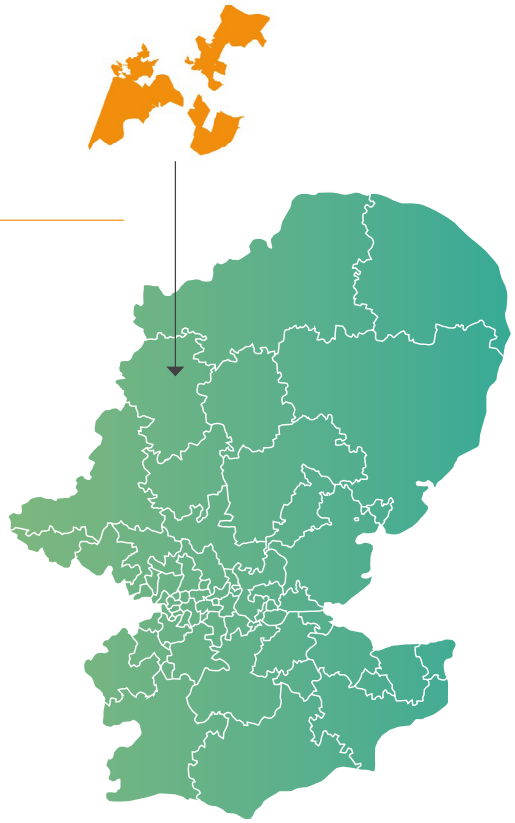
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Godmanchester

Area: EPN
Postcode: PE29 2AB

Constraint description:
The site only has a single transformer and is expected to be overloaded under an N-1 outage condition due to limited 11kV interconnection capacity.

Traditional solution:
In order to increase capacity at the site a proposed solution is to:
- Install an additional 33/11kV transformer
- Extend the 11kV switchgear.



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

Constraint season: **Winter**	Constraint year: **2024**	Flex revenue range £/MW: **£42,700 - £61,000**
Customers served: **6,612**	Current status: **Flexibility procurement**	Local authority: **Huntingdonshire**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender.
The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
↕	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.6	1.1	1.6	2.2	2.8
ST	0.8	1.4	1.9	2.6	3.2
LW	0.6	1.2	1.7	2.4	3.0
FS	0.8	1.3	1.8	2.3	2.9
FLEX	10%	10%	50%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Guyhirn

Area: EPN
Postcode: PE13 4EG

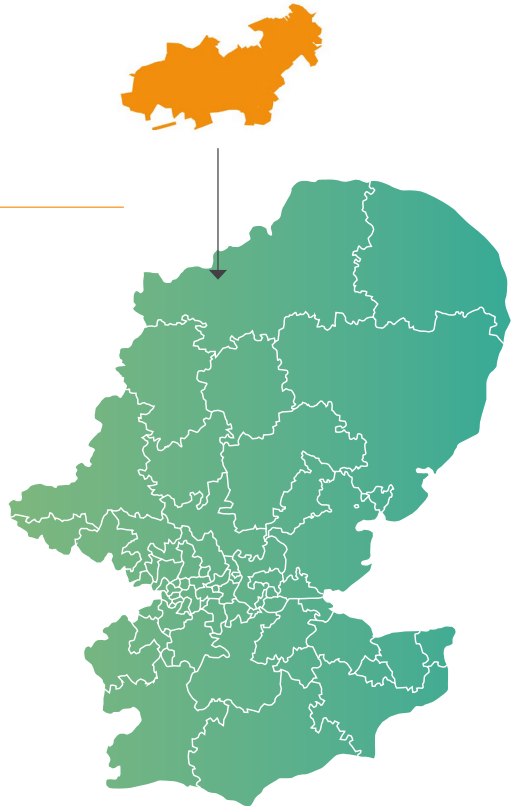
Constraint description:

The site only has a single transformer and is expected to be overloaded under an N-1 outage condition due to limited 11kV interconnection capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to:

- Install an additional 33/11kV transformer
- Extend the 11kV switchgear.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex revenue range £/MW **£70,000 - £100,000**
Customers served **1,553**	Current status **Flexibility procurement**	Local authority **Fenland Peterborough**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
⇅	⇅				

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

	2024/ 2025	2025/ 2026	2026/ 2027	2027/ 2028	2028/ 2029
CT	0.6	0.8	1.0	1.2	1.4
ST	0.7	0.9	1.1	1.3	1.4
LW	0.7	0.9	1.2	1.4	1.7
FS	0.7	0.8	1.0	1.2	1.4
FLEX	30%	20%	40%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

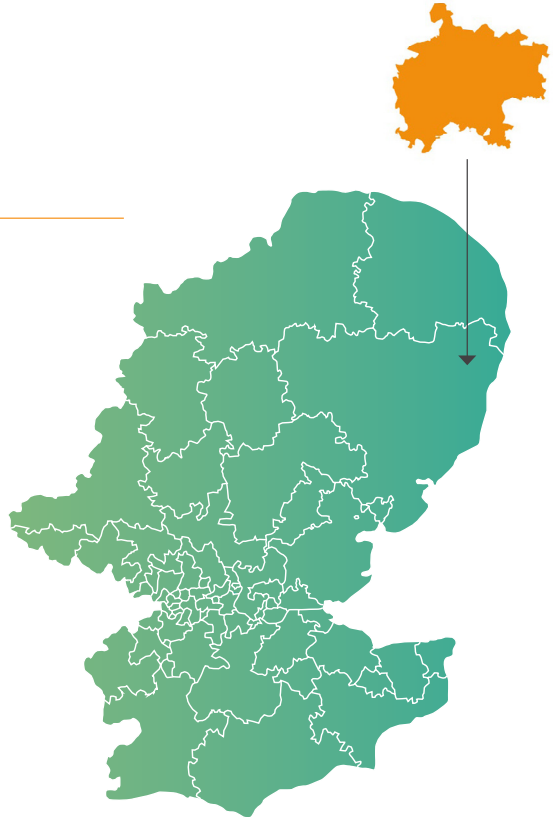
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Halesworth Primary

Area: EPN
Postcode: IP19 8QJ

Constraint description:
The 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
- Extend the 11kV switchgear
- Install a new 33kV circuit from Walsoken Grid.



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

Constraint season **Summer**	Constraint year **2024**	Flex revenue range £/MW **£29,400 - £42,000**
Customers served **5,536**	Current status **Flexibility procurement**	Local authority **East Suffolk**

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	1.8	1.9	2.1	2.2	2.4
ST	2.1	2.3	2.5	2.7	2.9
LW	1.8	1.9	2.1	2.3	2.4
FS	2.2	2.5	2.7	2.9	3.1
FLEX	>100%	>100%	>100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Halstead

Area: EPN
Postcode: CO9 1LH

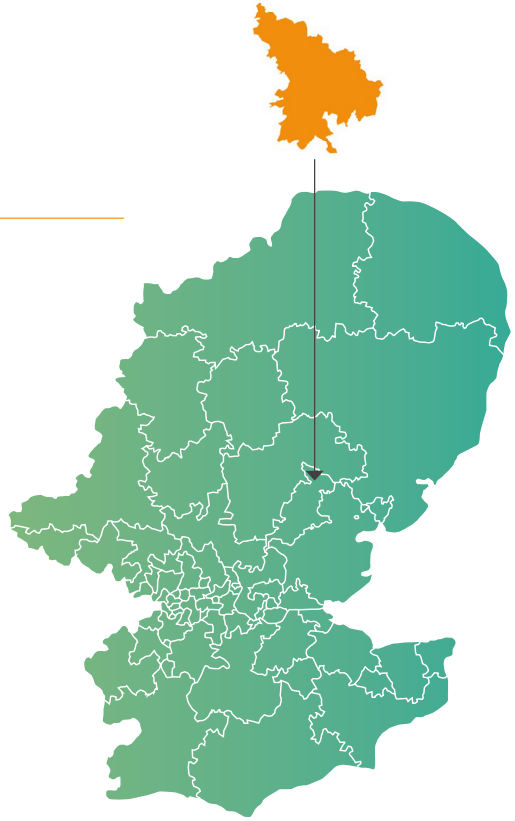
Constraint description:

The 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
- Replace the 11kV switchgear.



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

Constraint season
Winter

Constraint year
2024

Flex revenue range £/MW
£39,200 - £56,000

Customers served
12,418

Current status
Flexibility procurement

Local authority
Braintree

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.7	1.4	2.2	3.4	4.7
ST	1.1	2.0	2.9	4.0	5.2
LW	0.7	1.7	2.8	3.9	5.0
FS	1.1	1.9	2.7	3.6	4.6
FLEX	100%	60%	40%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

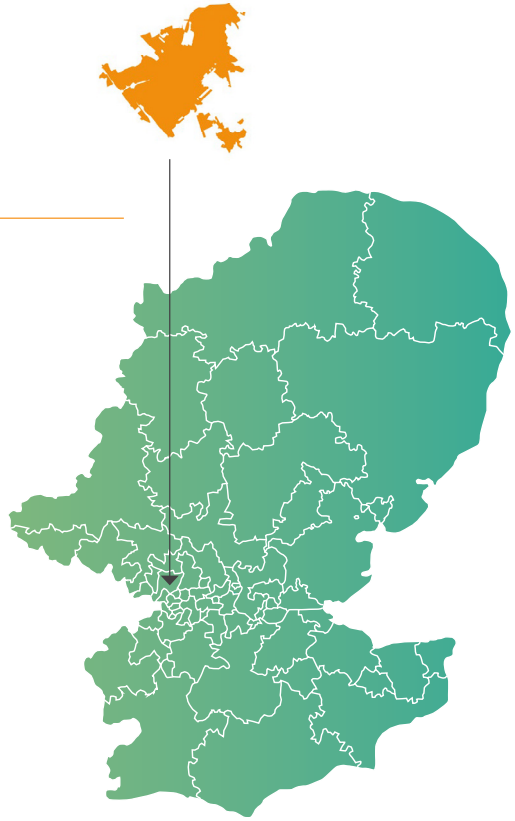
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Hendon Way

Area: EPN
Postcode: NW11 9RR

Constraint description:
The 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
- Extend the 11kV switchgear
- Install a new 33kV circuit from Hendon Grid.



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

Constraint season
Summer/Winter

Constraint year
2024

Flex revenue range £/MW
£24,500 - £35,000

Customers served
11,399

Current status
Flexibility procurement

Local authority
Barnet

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	3.9	4.6	5.5	6.3	7.1
ST	4.3	5.1	6.0	6.9	7.8
LW	4.1	4.9	5.9	6.8	7.5
FS	4.3	4.9	5.6	6.3	7.0
FLEX	10%	10%	10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Hilton

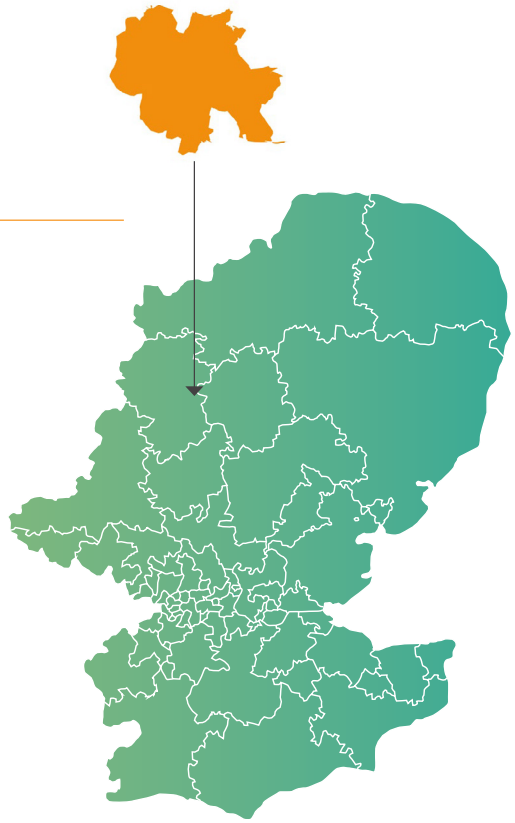
Area: EPN
Postcode: CB23 4JB

Constraint description:

The site only has a single transformer and is expected to be overloaded under an N-1 outage condition due to limited 11kV interconnection capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to reinforce the 11kV network between Hilton and Bourn.



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

Constraint season	Constraint year	Flex revenue range £/MW
Summer	2026	N/A

Customers served	Current status	Local authority
3,523	Flexibility procurement	Huntingdonshire South Cambridgeshire

Approved DNOA recommendation:

We had previously procured all required flexibility capacity for this site. Therefore this was not tendered in the Autumn 2023 Flexibility Tender event.

DNOA result history:

2023	2024	2025	2026	2027	2028
⇅	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT			0.1	0.3	0.5
ST		0.1	0.3	0.5	0.7
LW			0.2	0.3	0.5
FS		0.1	0.3	0.5	0.8
FLEX			100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

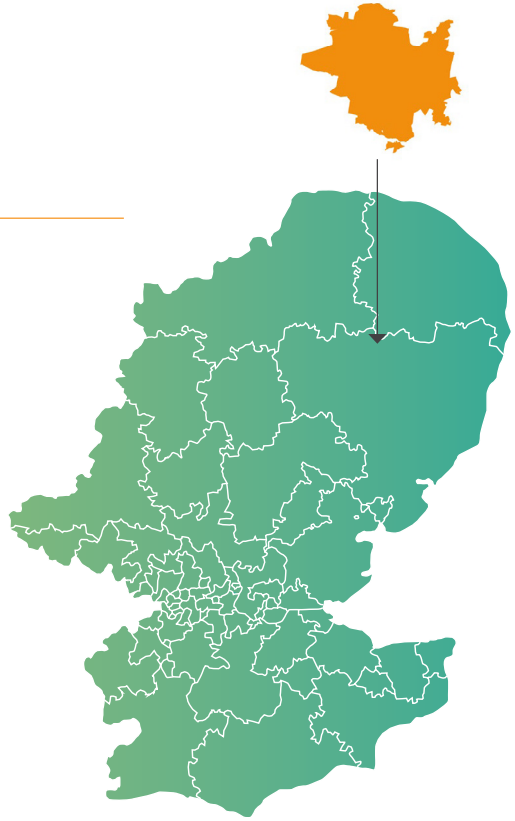
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Kenninghall

Area: EPN
Postcode: NR16 2EL

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

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



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

Constraint season
Winter

Constraint year
2024

Flex revenue range £/MW
£15,400 - £22,000

Customers served
4,427

Current status
Flexibility procurement

Local authority
Breckland

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender.
The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
⇅	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	3.0	3.0	3.0	3.3	3.5
ST	3.4	3.5	3.5	3.7	3.8
LW	3.0	3.2	3.3	3.6	3.8
FS	3.5	3.6	3.8	3.9	4.1
FLEX	<10%	<10%	20%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Kimbolton

Area: EPN
Postcode: PE28 0JF

Constraint description:

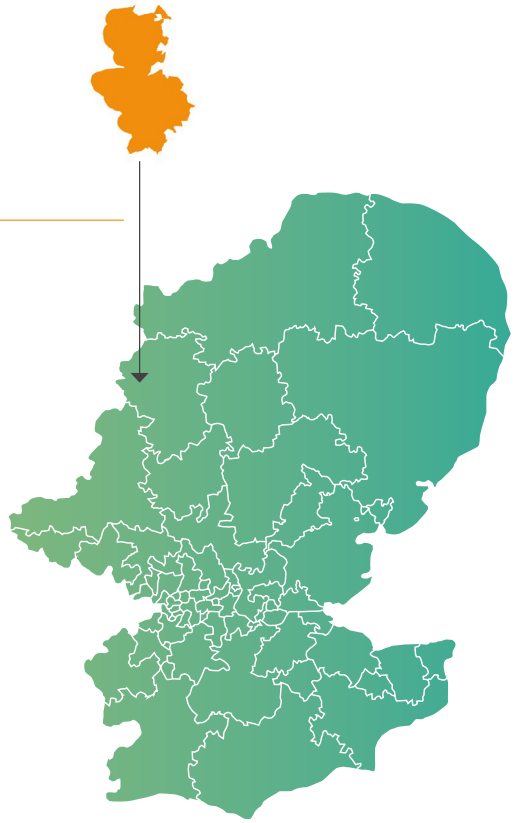
The site only has a single transformer and is expected to be overloaded under an N-1 outage condition due to limited 11kV interconnection capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to:

- Reinforce the 11kV network between Kimbolton and Brington
- Replace the existing transformer at Kimbolton.

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



Constraint season
Summer

Constraint year
2024

Flex revenue range £/MW
£21,700 - £31,000

Customers served
1,590

Current status
Reinforcement delivery

Local authority
Bedford Huntingdonshire

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender.
We will progress the reinforcement scheme and use flexibility to manage the system needs while reinforcement is being delivered.

DNOA result history:

2023	2024	2025	2026	2027	2028

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	2.1	2.0	1.9	1.9	2.0
ST	2.2	2.2	2.1	2.1	2.1
LW	2.1	2.0	2.0	2.1	2.1
FS	2.3	2.2	2.2	2.3	2.3
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

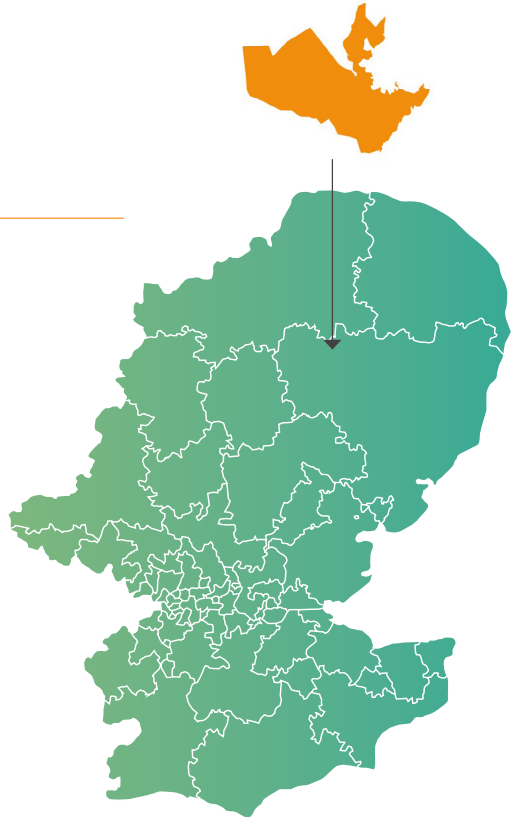
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Kimms Belt

Area: EPN
Postcode: IP24 3EU

Constraint description:
The 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
- Replace the 11kV switchgear.



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

Constraint season
Summer/Winter

Constraint year
2024

Flex revenue range £/MW
£56,000 - £80,000

Customers served
2,938

Current status
Flexibility procurement

Local authority
Breckland West Suffolk

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender.
The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.3	0.9	1.9	2.7	3.4
ST	0.5	1.2	2.1	3.0	3.8
LW	0.5	1.5	2.5	3.3	4.0
FS	0.3	0.8	1.4	2.0	2.7
FLEX	60%	20%	10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Laxfield

Area: EPN
Postcode: IP13 8EW

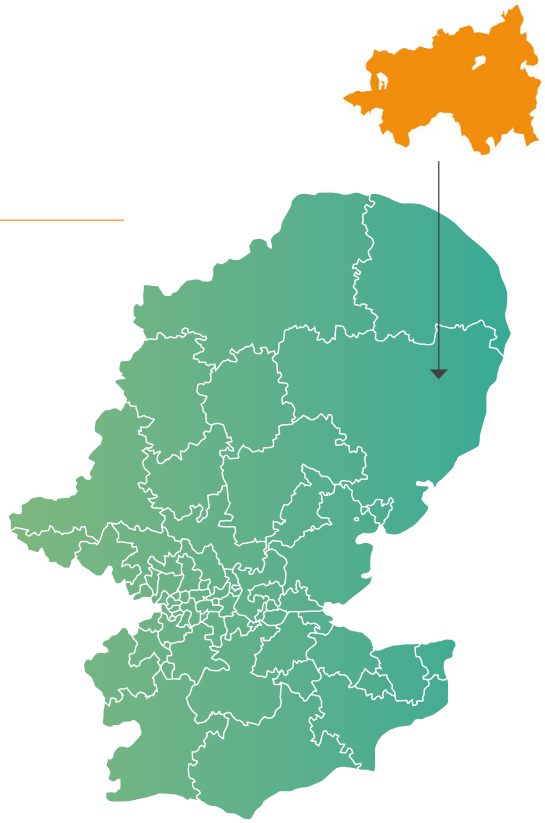
Constraint description:

The site only has a single transformer and is expected to be overloaded under an N-1 outage condition due to limited 11kV interconnection capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to:

- Install an additional transformer
- Install additional 33kV switchgear.



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

Constraint season
Winter

Constraint year
2024

Flex revenue range £/MW
£70,000 - £100,000

Customers served
1,953

Current status
Flexibility procurement

Local authority
East Suffolk
Mid Suffolk

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender.
The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
⇅	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.2	0.2	0.2	0.4	0.6
ST	0.3	0.3	0.3	0.4	0.4
LW	0.2	0.3	0.5	0.6	0.8
FS	0.3	0.3	0.3	0.3	0.3
FLEX	50%	60%	50%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

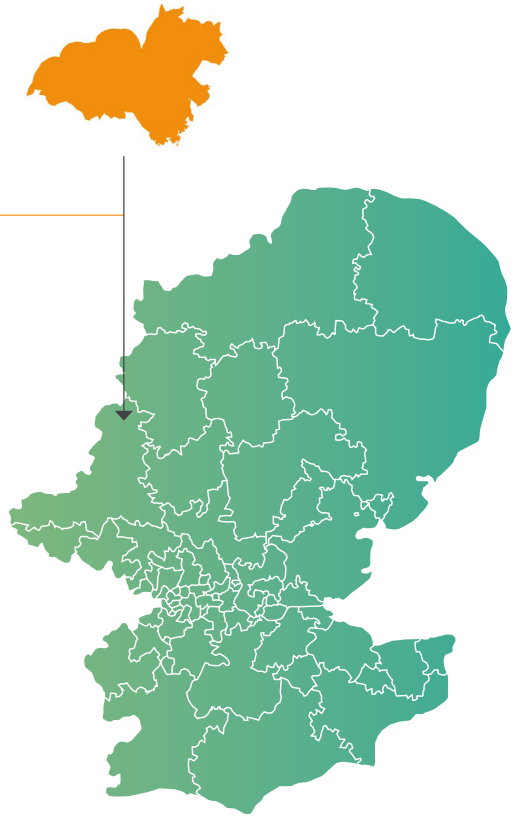
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Manton Lane

Area: EPN
Postcode: MK41 7PX

Constraint description:
The site is expected to be overloaded under an N-1 outage condition due to limited rating of the current transformers fitted to the 11kV switchgear.

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



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

Constraint season: **Winter**	Constraint year: **2026**	Flex revenue range £/MW: **£3,500 - £5,000**
Customers served: **13,576**	Current status: **Flexibility procurement**	Local authority: **Bedford**

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT			0.3	1.2	2.2
ST		0.3	1.1	2.0	3.0
LW			0.6	1.6	2.5
FS		0.6	1.4	2.3	3.2
FLEX			100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

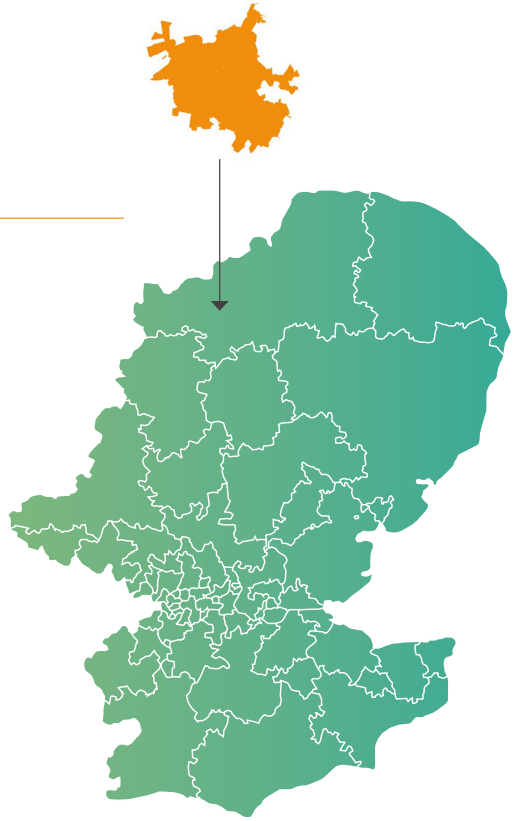
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

March Primary

Area: EPN
Postcode: PE15 9LT

Constraint description:
The 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 33/11kV substation at March Grid 132/33kV site.



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

Constraint season **Summer**	Constraint year **2025**	Flex revenue range £/MW **£56,000 - £80,000**
Customers served **12,629**	Current status **Flexibility procurement**	Local authority **Fenland**

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT		0.5	0.6	0.9	1.1
ST	0.2	0.9	1.2	1.4	1.7
LW		0.4	0.6	0.8	1.0
FS	0.4	1.2	1.5	1.9	2.2
FLEX		100%	70%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

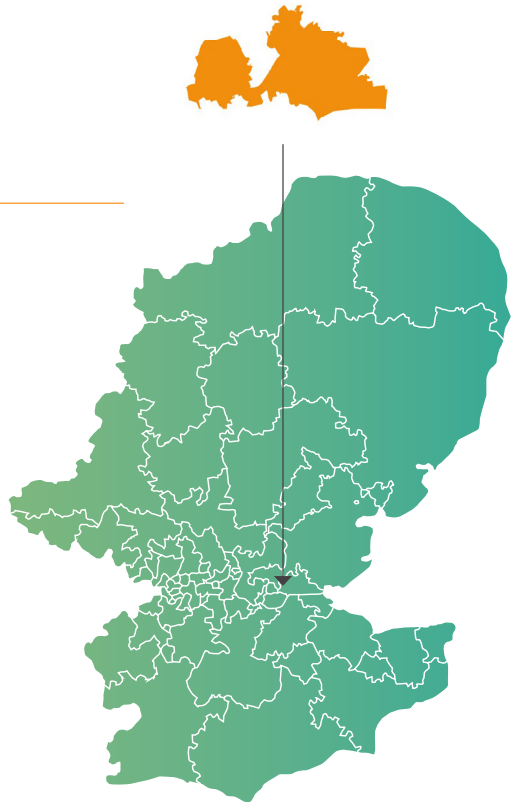
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Rainbow Lane

Area: EPN
Postcode: SS17 0AR

Constraint description:
The 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
- Replace the 11kV switchgear.



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

Constraint season
Summer/Winter

Constraint year
2026

Flex revenue range £/MW
£70,000 - £100,000

Customers served
13,933

Current status
Flexibility procurement

Local authority
Thurrock

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT			0.2	1.2	2.3
ST			0.8	1.8	3.0
LW			0.4	1.5	2.5
FS			0.7	1.7	2.7
FLEX			80%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Reed

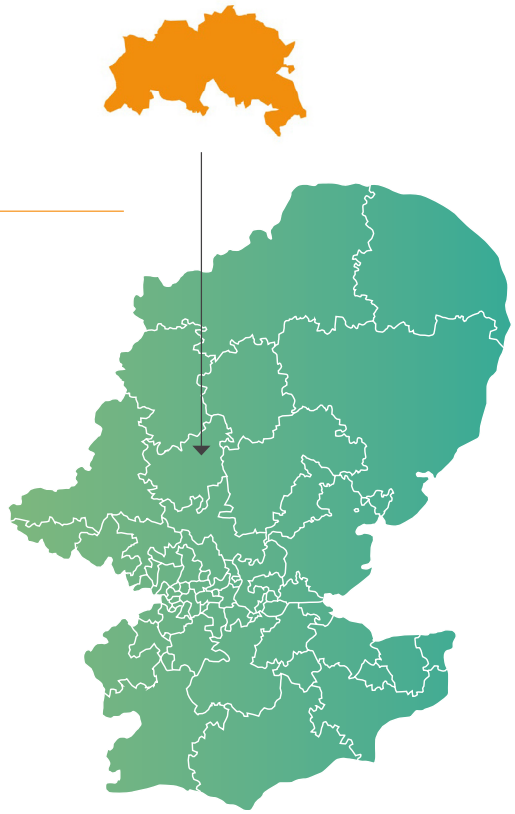
Area: EPN
Postcode: SG8 8BD

Constraint description:

The site only has a single transformer and is expected to be overloaded under an N-1 outage condition due to limited 11kV interconnection capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to install a new 11kV circuit between Reed and Royston.



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

Constraint season
Summer/Winter

Constraint year
2024

Flex revenue range £/MW
£7,000 - £10,000

Customers served
2,196

Current status
Reinforcement delivery

Local authority
East Hertfordshire
North Hertfordshire

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender.
We will progress the reinforcement scheme and use flexibility to manage the system needs while reinforcement is being delivered.

DNOA result history:

2023	2024	2025	2026	2027	2028

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	5.4	5.6	5.8	6.1	6.5
ST	5.6	5.8	6.0	6.3	6.5
LW	5.4	5.8	6.1	6.5	6.8
FS	5.5	5.8	6.0	6.2	6.4
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

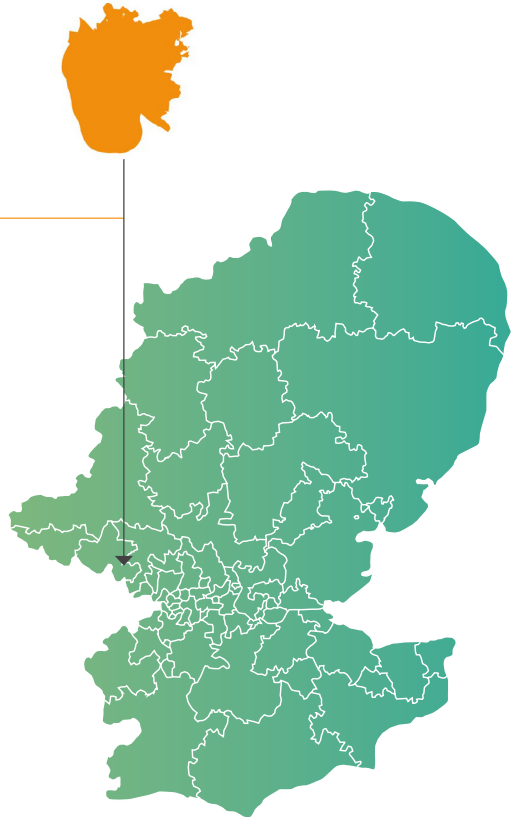
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Rickmansworth

Area: EPN
Postcode: WD3 7DD

Constraint description:
The 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:
- Remove the existing 33/11kV transformer
- Install a second 132/11kV transformer.



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

Constraint season
Winter

Constraint year
2026

Flex revenue range £/MW
£70,000 - £100,000

Customers served
13,867

Current status
Flexibility procurement

Local authority
Three Rivers

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT			0.3	1.3	2.3
ST		0.3	1.2	2.2	3.3
LW			0.6	1.4	2.3
FS		0.4	1.2	2.1	3.0
FLEX			>100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

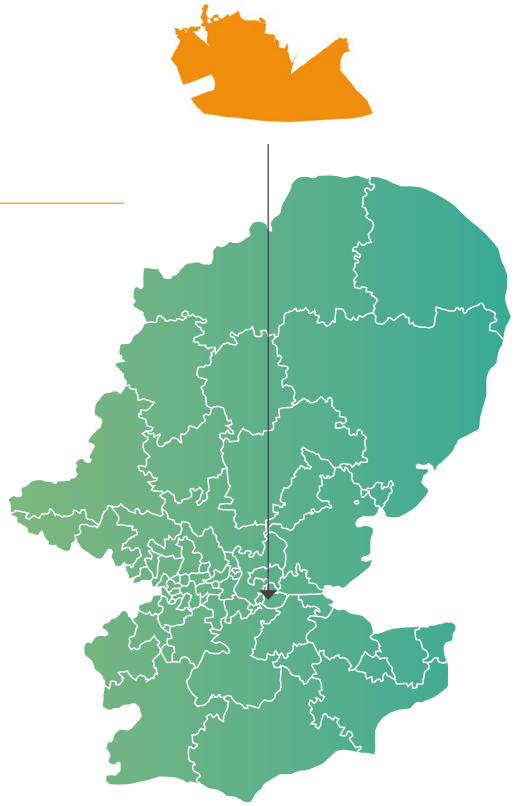
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Selwyn Road

Area: EPN
Postcode: RM18 7BP

Constraint description:
The 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 transformers.



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

Constraint season **Summer**	Constraint year **2024**	Flex revenue range £/MW **£23,800 - £34,000**
Customers served **7,964**	Current status **Reinforcement delivery**	Local authority **Thurrock**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will progress the reinforcement scheme and use flexibility to manage the system needs while reinforcement is being delivered.

DNOA result history:

2023	2024	2025	2026	2027	2028

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	1.4	1.6	1.8	2.1	2.3
ST	1.6	1.7	2.0	2.2	2.4
LW	1.5	1.7	2.0	2.3	2.7
FS	1.8	1.9	2.1	2.4	2.8
FLEX	20%	20%	20%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

St Anthony St

Area: EPN
Postcode: CB2 1HX

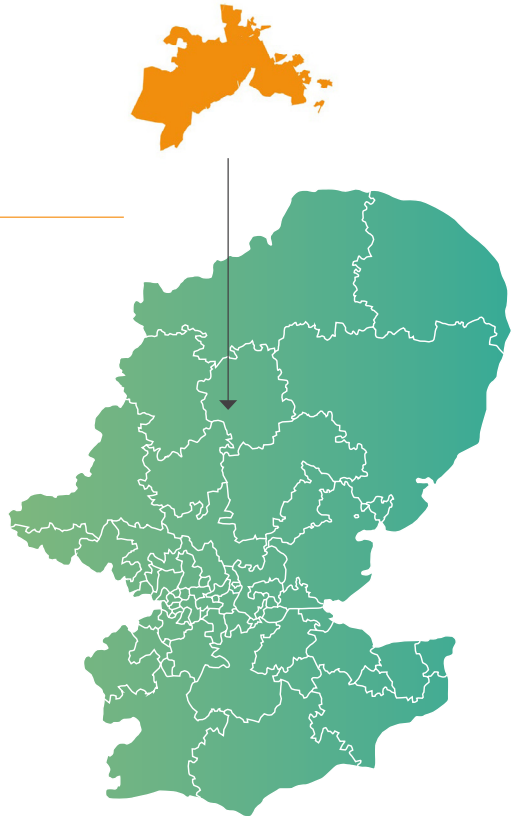
Constraint description:

The 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
- Replace the 11kV switchgear.



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

Constraint season	Constraint year	Flex revenue range £/MW
Summer	2024	£58,800 - £84,000

Customers served	Current status	Local authority
2,544	Flexibility procurement	Cambridge South Cambridgeshire

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	1.1	1.1	1.1	1.0	1.0
ST	1.4	1.5	1.5	1.5	1.6
LW	1.2	1.2	1.2	1.1	1.0
FS	1.5	1.7	1.7	1.7	1.8
FLEX	10%	10%	20%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Stickfast Lane

Area: EPN
Postcode: PE14 7LF

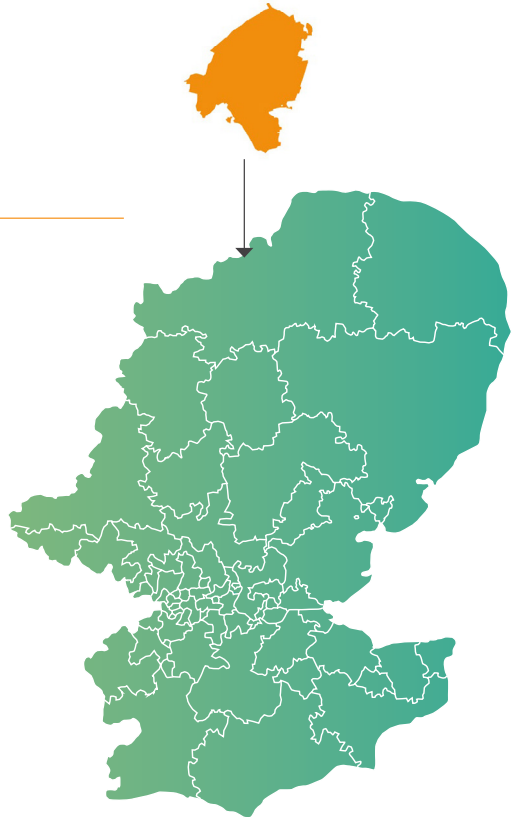
Constraint description:

The 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
- Replace the 11kV switchgear.



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

Constraint season **Winter**	Constraint year **2024**	Flex revenue range £/MW **£22,400 - £32,000**
Customers served **2,749**	Current status **Reinforcement delivery**	Local authority **King's Lynn**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender.
We will progress the reinforcement scheme and use flexibility to manage the system needs while reinforcement is being delivered.

DNOA result history:

2023	2024	2025	2026	2027	2028

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

	2024/ 2025	2025/ 2026	2026/ 2027	2027/ 2028	2028/ 2029
CT	2.4	2.4	2.5	2.8	0.2
ST	2.5	2.6	2.7	2.8	0.2
LW	2.3	2.4	2.5	2.7	0.1
FS	2.6	2.7	2.8	2.9	0.2
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Takeley

Area: EPN
Postcode: CM22 6RJ

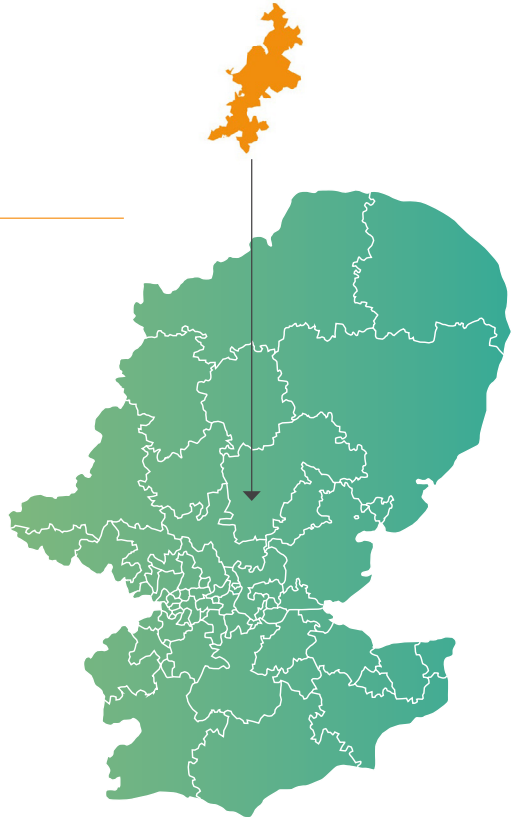
Constraint description:

The site only has a single transformer and is expected to be overloaded under an N-1 outage condition due to limited 11kV interconnection capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to:

- Install an additional 33/11kV transformer
- Install an additional 33kV circuit to Takeley.



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

Constraint season
Winter

Constraint year
2024

Flex revenue range £/MW
£70,000 - £100,000

Customers served
3,545

Current status
Flexibility procurement

Local authority
Uttlesford

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.1	0.3	0.6	1.0	1.5
ST	0.3	0.6	0.9	1.3	1.7
LW	0.2	0.4	0.8	1.3	1.7
FS	0.4	0.5	0.8	1.1	1.5
FLEX	>100%	>100%	70%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Thaxted Local

Area: EPN
Postcode: CM6 2RD

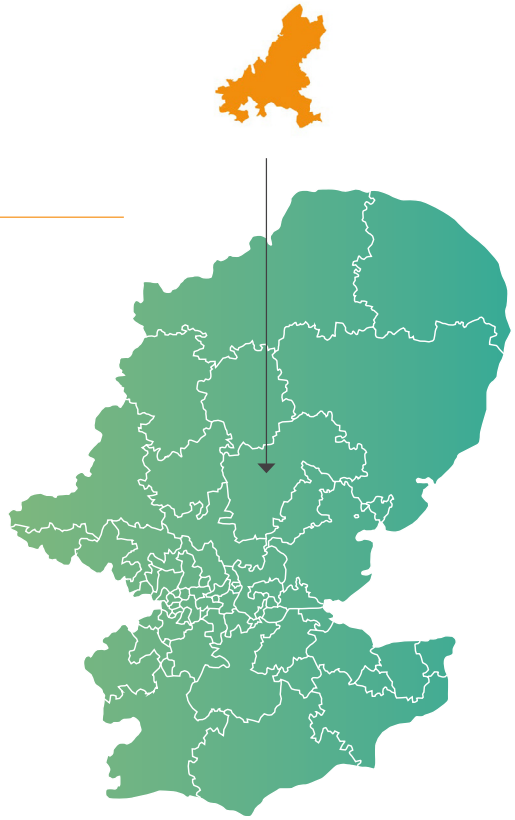
Constraint description:

The site only has a single transformer and is expected to be overloaded under an N-1 outage condition due to limited 11kV interconnection capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to:

- Replace the existing 33/11kV transformers
- Replace the 11kV switchgear.



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

Constraint season: **Winter**	Constraint year: **2024**	Flex revenue range £/MW: **£4,900 - £7,000**
Customers served: **3,095**	Current status: **Reinforcement delivery**	Local authority: **Uttlesford**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will progress the reinforcement scheme and use flexibility to manage the system needs while reinforcement is being delivered.

DNOA result history:

2023	2024	2025	2026	2027	2028

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	4.1	4.2	4.3	4.6	4.9
ST	4.3	4.4	4.6	4.8	5.1
LW	4.1	4.2	4.4	4.7	4.9
FS	4.3	4.5	4.6	4.8	5.0
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

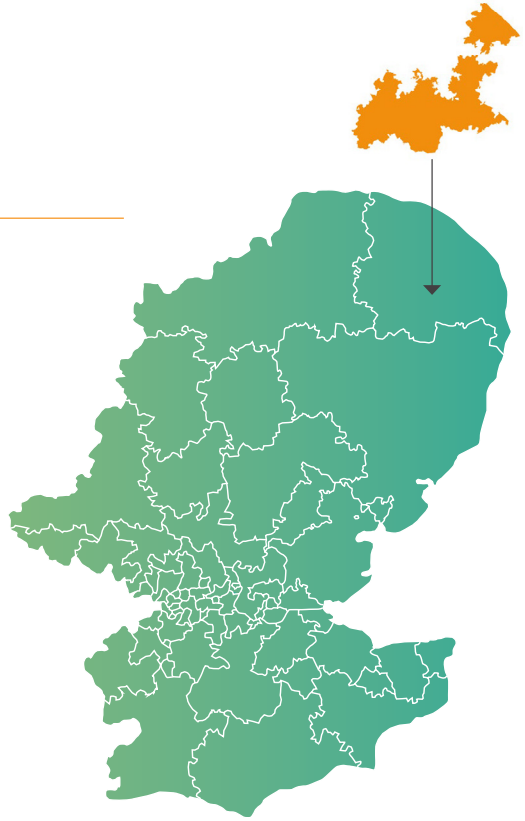
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Trowse Grid

Area: EPN
Postcode: NR14 8SL

Constraint description:
The 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 an additional 132/33kV transformer
- Extend the 33kV switchgear.



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

Constraint season
Winter/Summer

Constraint year
2026

Flex revenue range £/MW
£70,000 - £100,000

Customers served
73,773

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT			0.1	5.8	11.6
ST			3.4	7.9	12.9
LW			1.2	5.8	10.1
FS			3.0	6.9	10.7
FLEX			>100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Uplands Park

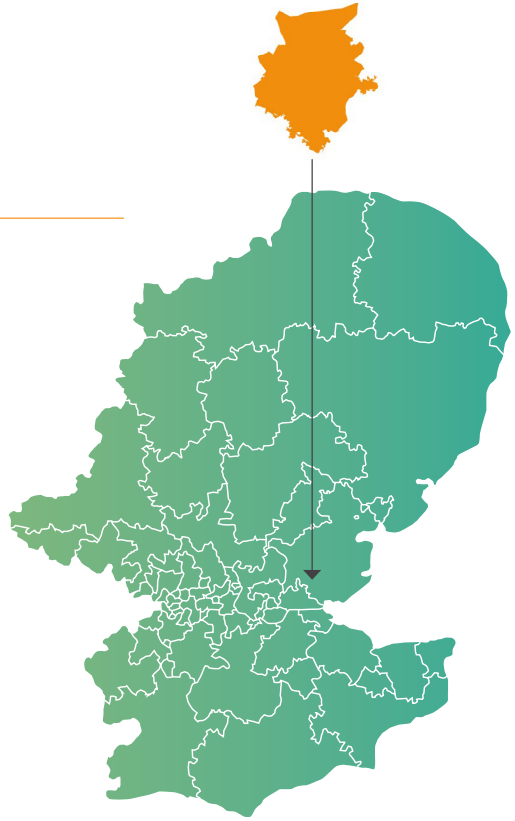
Area: EPN
Postcode: SS6 8AY

Constraint description:

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

Traditional solution:

In order to increase available capacity at the site a proposed solution is to install additional 11kV interconnection to enable demand to be transferred from Uplands Park to Rayleigh Local.



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

Constraint season
Winter

Constraint year
2026

Flex revenue range £/MW
£10,500 - £15,000

Customers served
14,089

Current status
Flexibility procurement

Local authority
Rochford

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT			0.5	1.1	1.9
ST	0.2	0.7	1.3	2.0	2.8
LW		0.0	0.7	1.4	2.0
FS	0.3	0.8	1.4	2.1	2.8
FLEX			80%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

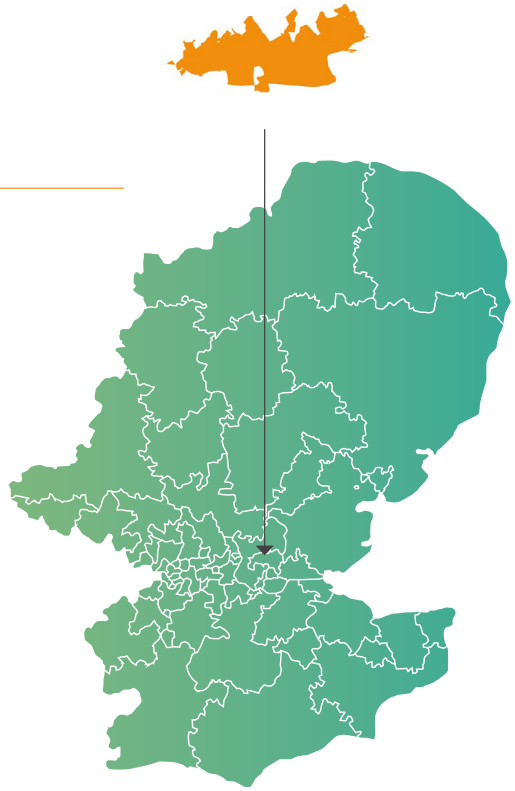
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

West Horndon

Area: EPN
Postcode: CM13 3XL

Constraint description:
The 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 transformers.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex revenue range £/MW **£16,800 - £24,000**
Customers served **1,434**	Current status **Reinforcement delivery**	Local authority **Basildon Brentwood**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender.
We will progress the reinforcement scheme and use flexibility to manage the system needs while reinforcement is being delivered.

DNOA result history:

2023	2024	2025	2026	2027	2028

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

	2024/ 2025	2025/ 2026	2026/ 2027	2027/ 2028	2028/ 2029
CT	1.8	2.1	2.6	3.0	3.4
ST	1.8	2.3	2.7	3.1	3.5
LW	1.9	2.5	2.9	3.3	3.8
FS	1.9	2.1	2.4	2.8	3.1
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

White Roding

Area: EPN
Postcode: CM6 1RF

Constraint description:

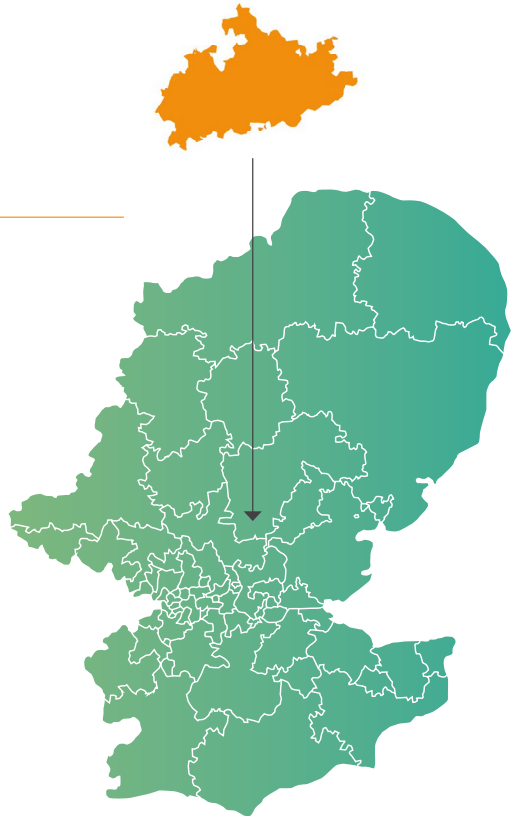
The site only has a single transformer and is expected to be overloaded under an N-1 outage condition due to limited 11kV interconnection capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to:

- Install an additional 33/11kV transformer
- Extend the 11kv switchgear
- Install an additional 33kV circuit to White Roding.

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



Constraint season
Winter/Summer

Constraint year
2024

Flex revenue range £/MW
£23,100 - £33,000

Customers served
2,728

Current status
Flexibility procurement

Local authority
Epping Forest Uttlesford

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	3.1	3.2	3.3	3.7	4.1
ST	3.4	3.5	3.6	3.9	4.1
LW	3.1	3.3	3.5	3.7	3.9
FS	3.4	3.5	3.7	3.9	4.1
FLEX	>100%	>100%	>100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

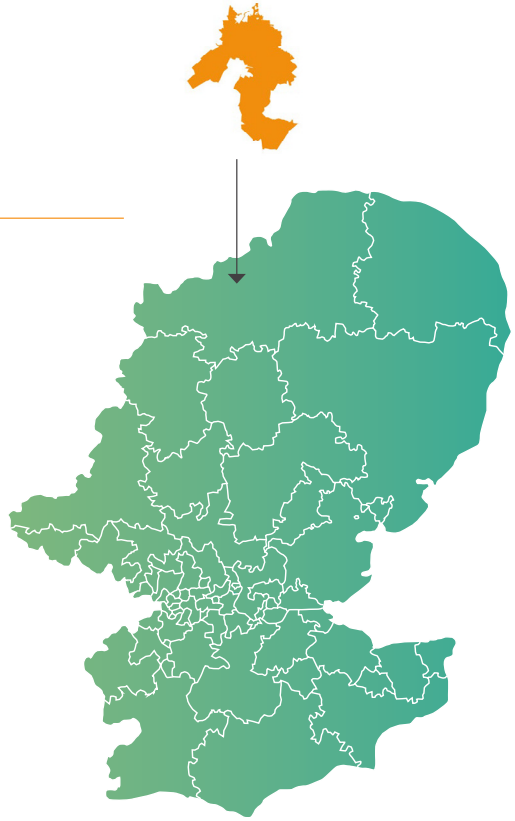
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Wisbech Railway

Area: EPN
Postcode: PE13 2QA

Constraint description:
The 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
- Replace the 11kV switchgear.



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

Constraint season	Constraint year	Flex revenue range £/MW
Summer	2024	£70,000 - £100,000

Customers served	Current status	Local authority
5,846	Flexibility procurement	Multiple

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.3	0.2	0.1	0.2	0.1
ST	0.6	0.6	0.6	0.7	0.7
LW	0.2	0.2	0.2	0.2	0.2
FS	0.8	0.9	0.9	1.0	1.2
FLEX	100%	>100%	>100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Worstead

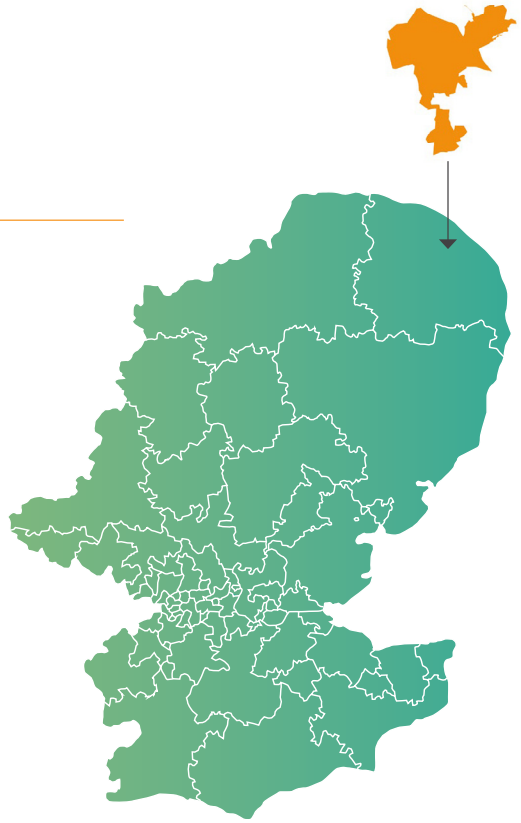
Area: EPN
Postcode: NR28 9RX

Constraint description:

The site only has a single transformer and is expected to be overloaded under an N-1 outage condition due to limited 11kV interconnection capacity.

Traditional solution:

In order to increase capacity at the site a proposed solution is to install additional 11kV interconnection between Worstead and Scottow.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex revenue range £/MW **£44,100 - £63,000**
Customers served **509**	Current status **Flexibility procurement**	Local authority **North Norfolk**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender.
The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
⇅	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.4	0.4	0.4	0.4	0.4
ST	0.5	0.5	0.5	0.5	0.5
LW	0.4	0.4	0.4	0.4	0.4
FS	0.6	0.6	0.6	0.6	0.6
FLEX	50%	50%	50%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Bow

Area: LPN
Postcode: E15 2GN

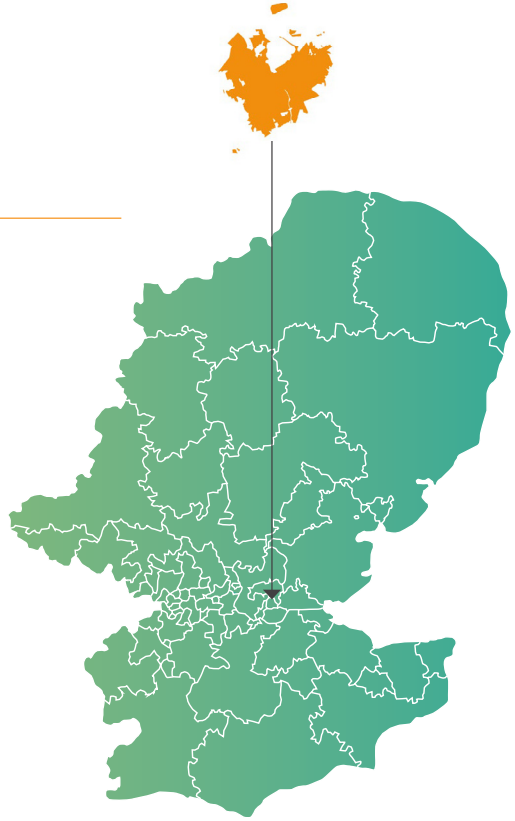
Constraint description:

The 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 traditional solution is to:

- Establish a 3rd 132/11kV transformer
- Extend 132kV switchboard at Bow GIS.



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

Constraint season
Winter

Constraint year
2025

Flex revenue range £/MW
£31,500 - £45,000

Customers served
27,908

Current status
Flexibility procurement

Local authority
Newham Tower Hamlets

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT		0.5	3.4	6.3	8.6
ST		1.5	4.4	7.2	9.4
LW		0.9	4.1	6.9	8.9
FS		1.3	4.0	6.5	8.5
FLEX		>100%	20%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Lithos Road

Area: LPN
Postcode: NW3 6ES

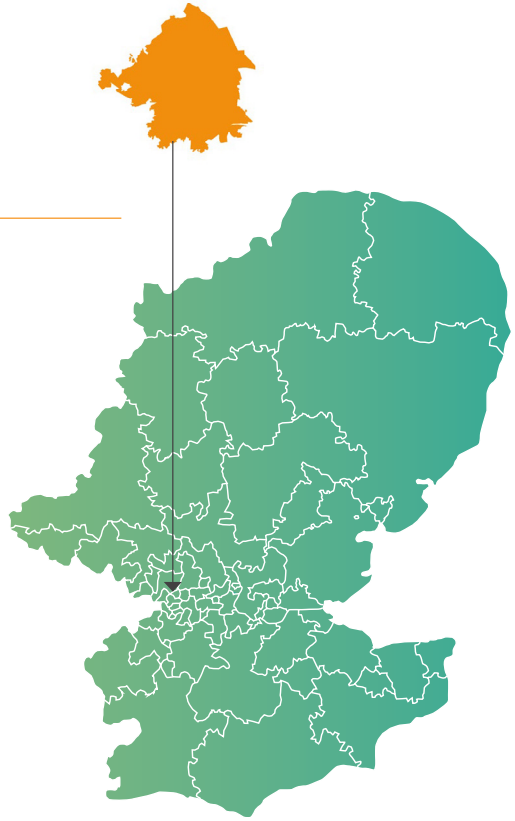
Constraint description:

The 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 traditional solution is to:

- Replace 4 x 15MVA units with 3 x 66/11 33MVA units.



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

Constraint season
Summer

Constraint year
2025

Flex revenue range £/MW
£28,000 - £40,000

Customers served
43,065

Current status
Flexibility procurement

Local authority
Camden

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT		0.3	2.2	4.2	6.2
ST		1.3	3.2	5.2	7.3
LW		0.3	2.2	4.0	5.8
FS		2.0	4.2	6.3	8.5
FLEX		100%	20%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Whiston Road

Area: LPN
Postcode: E2 8BN

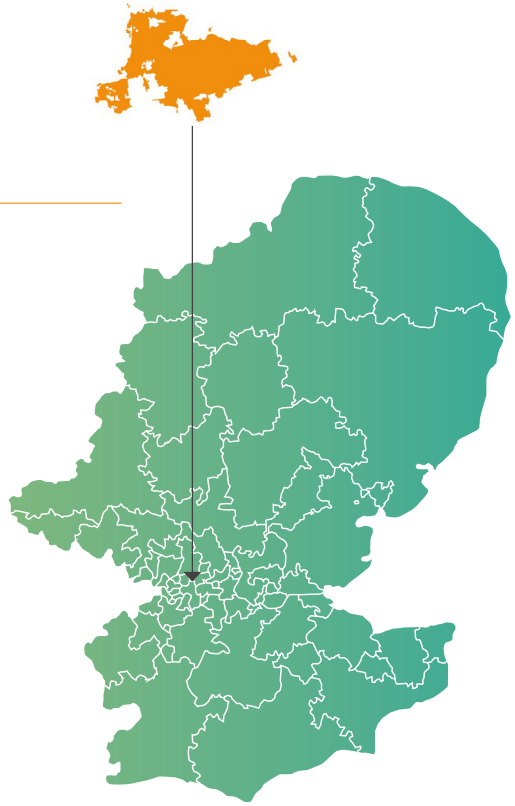
Constraint description:

The 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 traditional solution is to:

- 3 new 132/11 33MVA transformers supplied via new circuits from Islington GSP
- Lay new 132kV circuits (~4km).



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

Constraint season
Winter

Constraint year
2024

Flex revenue range £/MW
£44,800 - £64,000

Customers served
28,367

Current status
Reinforcement delivery

Local authority
Hackney Tower Hamlets

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will progress the reinforcement scheme and use flexibility to manage the system needs while reinforcement is being delivered.

DNOA result history:

2023	2024	2025	2026	2027	2028

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	3.2	3.7	4.6	5.8	7.1
ST	4.4	5.2	6.1	7.1	8.2
LW	3.3	3.9	5.2	6.6	7.9
FS	5.0	5.6	6.7	7.7	8.8
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

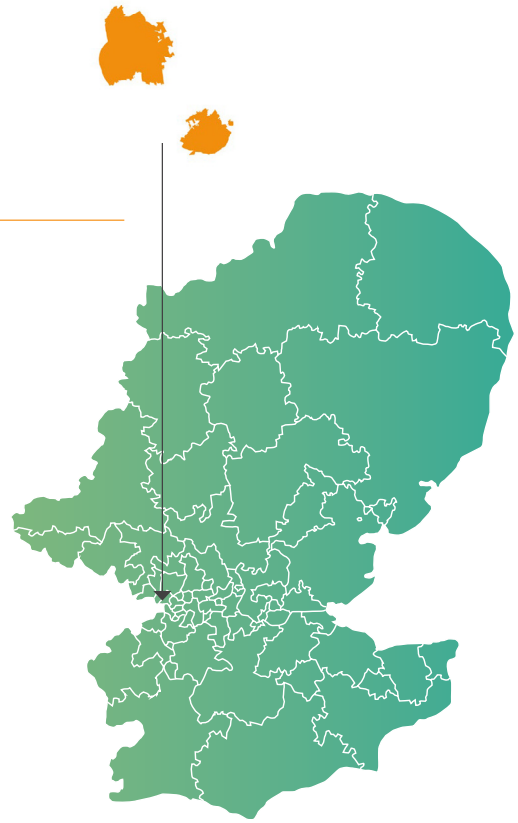
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Willesden Grid

Area: LPN
Postcode: NW10 6PE

Constraint description:
Lack of capacity within Scottish and Southern Energy Networks area within West London.

Traditional solution:
This is a whole systems approach to solve a network limitation.



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

Constraint season
Winter/Summer

Constraint year
N/A

Flex revenue range £/MW
£18,900 - £27,000

Customers served
108,256

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We are procuring as much flexibility as possible to support the growth of demand in West London's SSEN network.

DNOA result history:

2023	2024	2025	2026	2027	2028
⇅	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	25	25	25	25	
ST	25	25	25	25	
LW	25	25	25	25	
FS	25	25	25	25	
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Barming

Area: SPN
Postcode: ME16 9BX

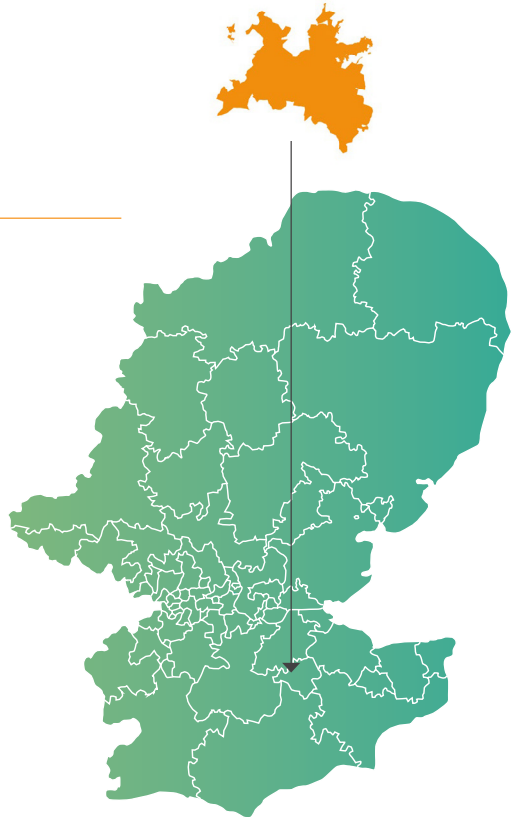
Constraint description:

The site is expected to be overloaded in under an N-1 outage condition due to limited switchgear rating and transformer capacity.

Traditional solution:

In order to increase capacity at the site the traditional solution is to:

- Replace the existing transformers
- Replace the 11kV switchgear
- Increase the capacity of the 33kV circuits.



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

Constraint season **Winter**	Constraint year **2024**	Flex revenue range £/MW **£70,000 - £100,000**
Customers served **9,802**	Current status **Flexibility procurement**	Local authority **Maidstone Tonbridge and Malling**

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.1	1.2	2.4	2.6	3.0
ST	0.5	1.7	2.9	3.1	3.6
LW	0.1	1.2	2.5	2.7	3.1
FS	0.6	1.9	3.1	3.3	3.5
FLEX	100%	40%	20%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Capel Switching Station

Area: SPN
Postcode: RH5 5LE

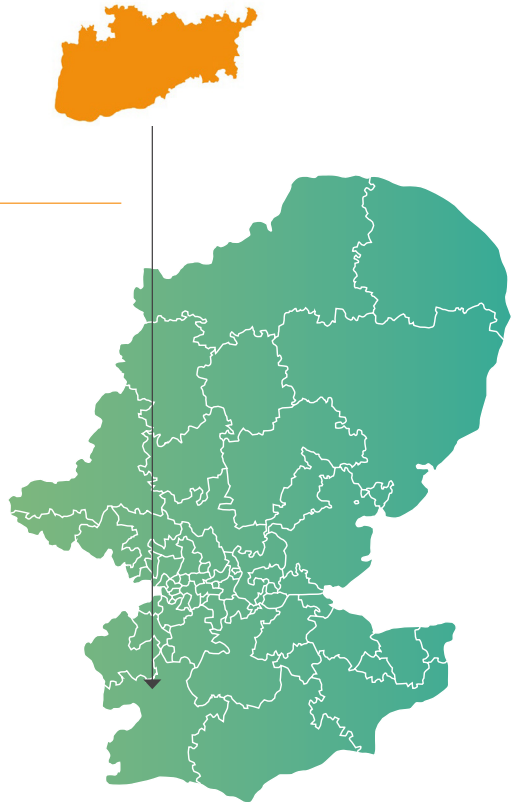
Constraint description:

Network load is forecasted to exceed the circuits capacity in 2024. Intervention is required to ensure there is sufficient capacity in the network for the projected load.

Traditional solution:

In order to increase capacity at the site the traditional solution is to:

- Replace overhead lines with 2 x 12km EHV cable.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex revenue range £/MW
£30,800 - £44,000

Customers served
14,580

Current status
Flexibility procurement

Local authority
Mole Valley

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
⇅	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	3.6	4.0	4.5	5.4	6.4
ST	4.4	5.0	5.7	6.5	7.4
LW	3.5	4.0	4.8	5.6	6.5
FS	4.7	5.3	6.0	6.8	7.6
FLEX	20%	20%	40%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Capel

Area: SPN
Postcode: RH5 5LE

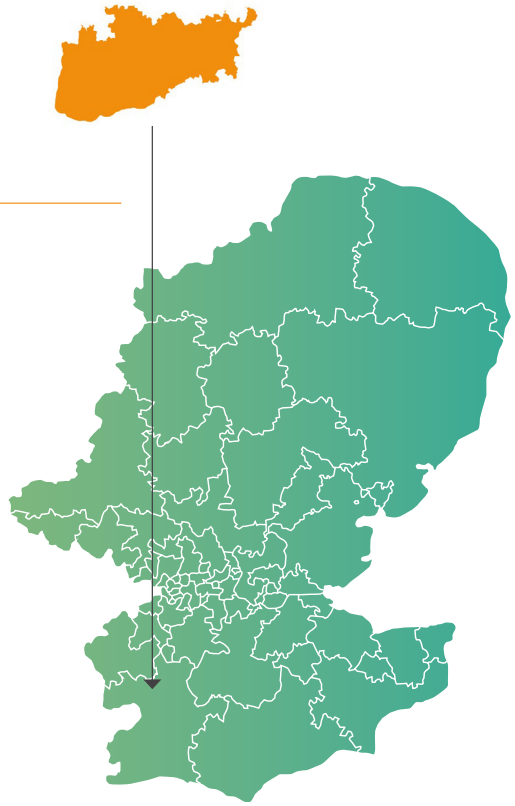
Constraint description:

The 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 traditional solution is to:

- Replace the existing transformers
- Replace the 11kV switchgear.



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

Constraint season
Winter

Constraint year
2025

Flex revenue range £/MW
N/A

Customers served
4,667

Current status
Flexibility procurement

Local authority
Mole Valley

Approved DNOA recommendation:

We had previously procured all required flexibility capacity for this site. Therefore this was not tendered in the Autumn 2023 Flexibility Tender event.

DNOA result history:

2023	2024	2025	2026	2027	2028
✓	✓				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT		0.1	0.2	0.5	0.9
ST	0.2	0.4	0.6	0.9	1.2
LW		0.1	0.3	0.6	0.9
FS	0.3	0.5	0.7	1.0	1.2
FLEX		100%	100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Cobham

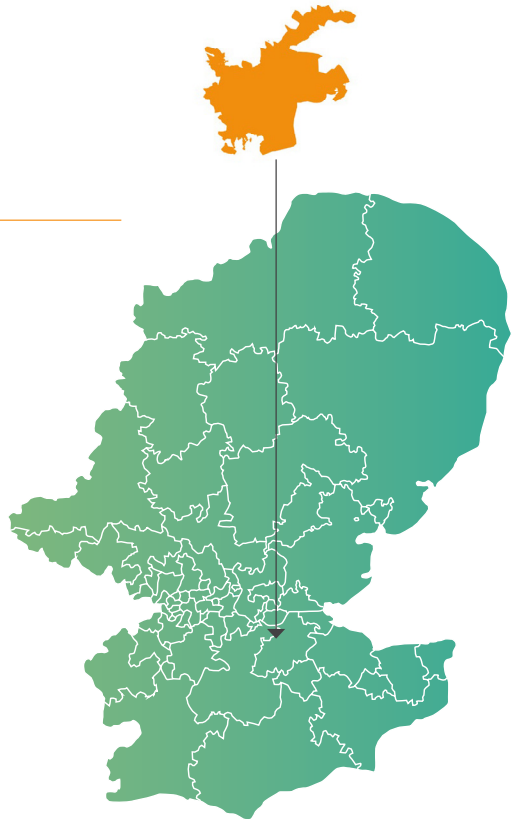
Area: SPN
Postcode: DA12 3BP

Constraint description:

The site is run split at transformer level. One of the transformers can be overload at peak demand times.

Traditional solution:

In order to increase capacity at the site the traditional solution is to replace power transformers, 9km of EHV underground cable.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex revenue range £/MW
£28,700 - £41,000

Customers served
5,725

Current status
Flexibility procurement

Local authority
Gravesham

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
⇅	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	2.9	3.1	3.4	4.0	4.5
ST	3.2	3.5	3.9	4.4	4.8
LW	2.9	3.1	3.5	4.1	4.4
FS	3.2	3.5	3.9	4.3	4.7
FLEX	<10%	<10%	10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

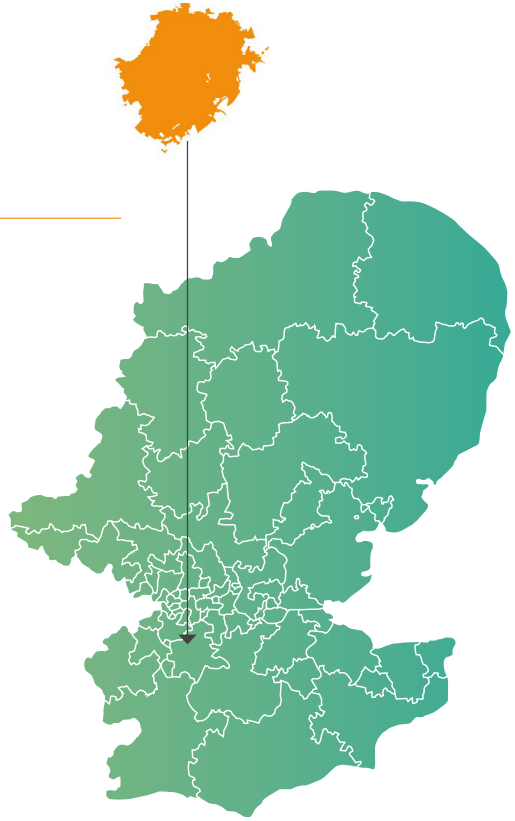
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Croydon B

Area: SPN
Postcode: CR0 3RL

Constraint description:
The 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 traditional solution is to install 1 grid transformer.



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

Constraint season **Winter**	Constraint year **2024**	Flex revenue range £/MW **£42,000 - £60,000**
Customers served **25,470**	Current status **Flexibility procurement**	Local authority **Croydon**

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.2	0.8	1.6	2.6	3.7
ST	0.9	1.6	2.5	3.4	4.5
LW	0.2	0.9	1.9	3.0	3.9
FS	1.0	1.7	2.4	3.2	4.0
FLEX	100%	100%	60%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

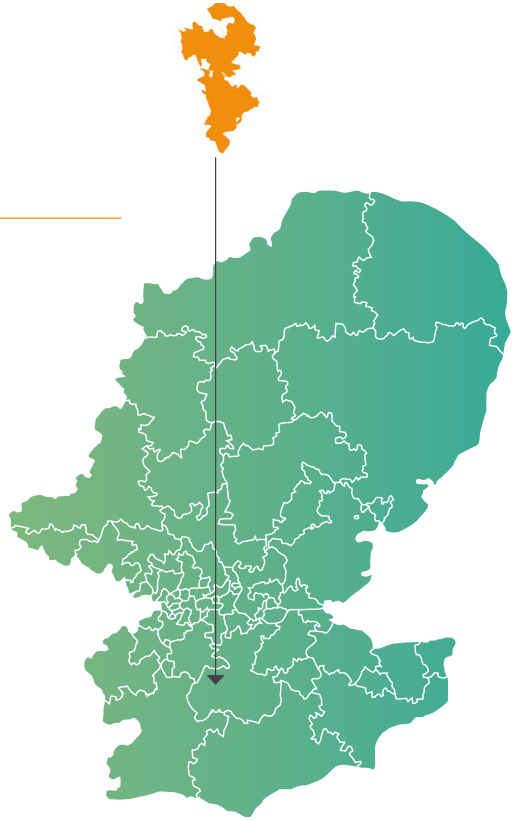
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Edenbridge

Area: SPN
Postcode: TN8 6SL

Constraint description:
The 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 traditional solution is to install 1 power transformer.



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

Constraint season	Constraint year	Flex revenue range £/MW
Winter	2024	£31,500 - £45,000

Customers served	Current status	Local authority
4,446	Flexibility procurement	Sevenoaks

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
⇅	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	1.0	1.0	1.0	1.1	1.3
ST	1.2	1.3	1.3	1.4	1.6
LW	1.0	1.0	1.0	1.2	1.3
FS	1.3	1.4	1.4	1.5	1.7
FLEX	20%	20%	40%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Hurstpierpoint

Area: SPN
Postcode: BN6 9PA

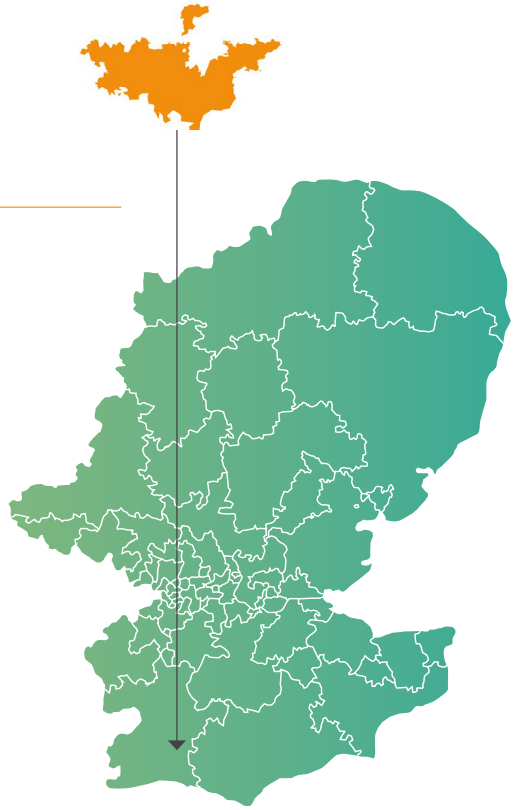
Constraint description:

The 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 traditional solution is to:

- Replace 2 x power transformers, 11 x circuit breakers, 2 x 5km EHV cables.



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

Constraint season
Winter

Constraint year
2026

Flex revenue range £/MW
£70,000 - £100,000

Customers served
11,225

Current status
Flexibility procurement

Local authority
Horsham Lewes, Mid Sussex

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT			0.5	1.5	2.4
ST		0.6	1.4	2.3	3.2
LW		0.0	0.9	1.8	2.5
FS	0.0	0.7	1.4	2.2	3.0
FLEX			>100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Leysdown

Area: SPN
Postcode: ME12 4NA

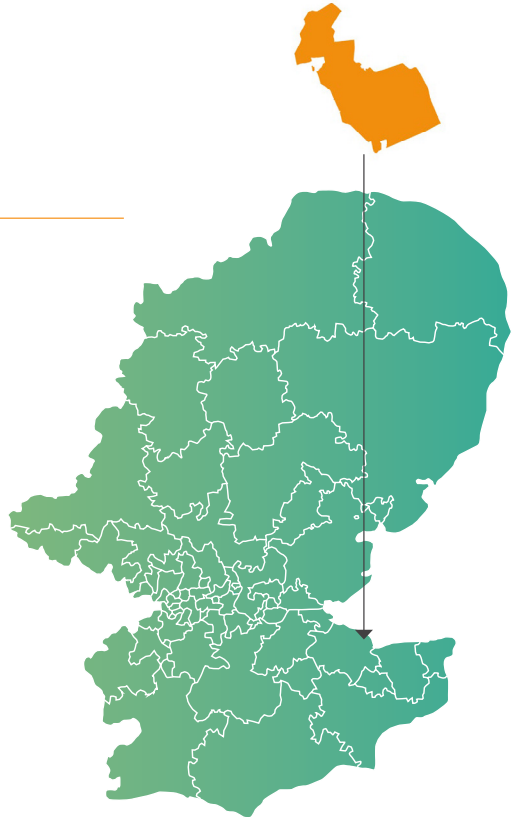
Constraint description:

The site is expected to be overloaded under an N-1 outage condition due to limited interconnection capacity.

Traditional solution:

In order to increase capacity at the site the traditional solution is to:

- Replace the existing transformer
- Install an additional transformer
- Replace the 6.6kV switchgear
- Increase the capacity of the 33kV circuits.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex revenue range £/MW
£70,000 - £100,000

Customers served
1,082

Current status
Flexibility procurement

Local authority
Swale

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
✓	✓				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.5	0.5	0.56	0.6	0.7
ST	0.6	0.6	0.7	0.7	0.8
LW	0.5	0.5	0.6	0.6	0.6
FS	0.6	0.6	0.7	0.7	0.8
FLEX	20%	20%			

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

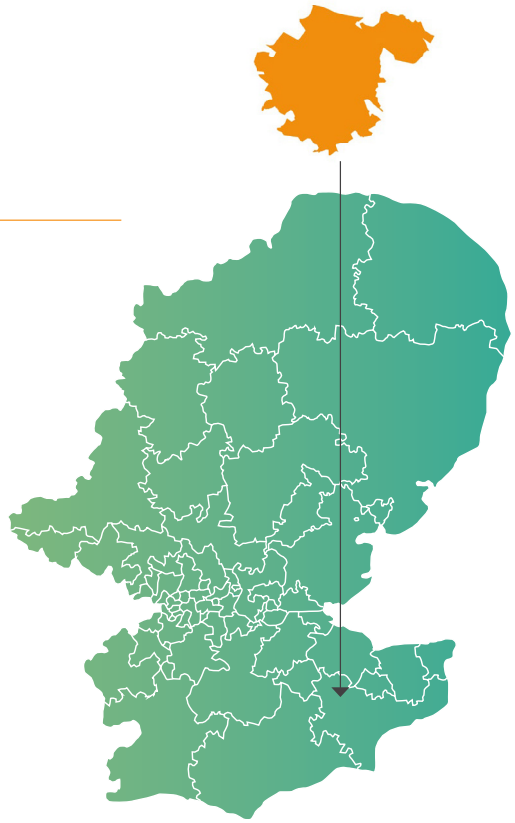
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Little Chart

Area: SPN
Postcode: TN27 0PS

Constraint description:
The 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.

Constraint season **Winter**	Constraint year **2024**	Flex revenue range £/MW **£70,000 - £100,000**
Customers served **3,063**	Current status **Flexibility procurement**	Local authority **Ashford**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
⇅	⇅				

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

	2024/ 2025	2025/ 2026	2026/ 2027	2027/ 2028	2028/ 2029
CT	0.4	0.6	0.9	1.3	1.7
ST	0.5	0.8	1.1	1.5	1.8
LW	0.4	0.7	1.1	1.5	1.8
FS	0.6	0.7	1.0	1.3	1.6
FLEX	60%	20%	40%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

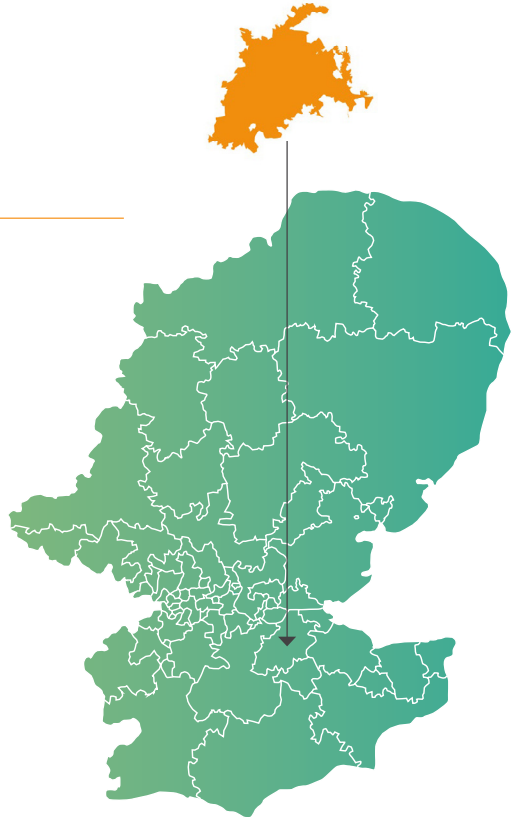
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Medway Grid

Area: SPN
Postcode: ME1 3TS

Constraint description:
The 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 traditional solution is to:
- Replace the existing transformers
- Replace switchgear.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex revenue range £/MW **N/A**
Customers served **53,899**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We had previously procured all required flexibility capacity for this site. Therefore this was not tendered in the Autumn 2023 Flexibility Tender event.

DNOA result history:

2023	2024	2025	2026	2027	2028
↕	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	10.6	11.7	12.7	14.2	17.1
ST	12.2	13.5	14.8	16.6	19.5
LW	10.8	12.1	13.6	15.0	17.4
FS	12.7	14.0	15.3	16.6	18.6
FLEX	100%	100%	100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Rainham

Area: SPN
Postcode: ME8 0DT

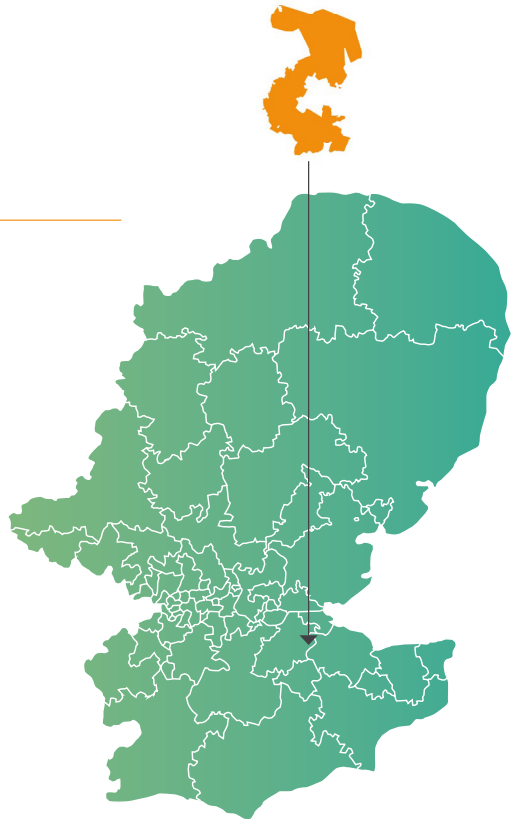
Constraint description:

The site is expected to be overloaded under an N-1 outage condition due to limited circuit capacity.

Traditional solution:

In order to increase capacity at the site the traditional solution is to:

- Install an additional transformer
- Replace the 11kV switchgear
- Install new 33kV switchgear.



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

Constraint season **Winter**	Constraint year **2026**	Flex revenue range £/MW **£66,500 - £95,000**
Customers served **16,095**	Current status **Flexibility procurement**	Local authority **Maidstone Medway, Swale**

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/ 2025	2025/ 2026	2026/ 2027	2027/ 2028	2028/ 2029
CT			1.1	2.0	2.8
ST	0.6	1.3	2.0	2.9	3.9
LW		0.6	1.3	2.2	3.0
FS	0.8	1.5	2.2	3.0	3.8
FLEX			100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

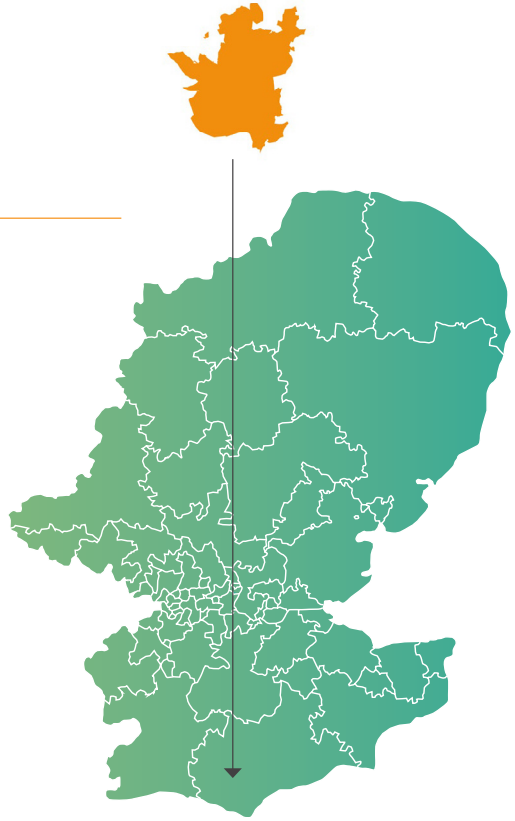
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Ripe

Area: SPN
Postcode: BN8 6AY

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

Traditional solution:
In order to increase capacity at the site the traditional solution is to:
- Replace the existing transformers
- Replace the 11kV switchgear.



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

Constraint season: **Summer**	Constraint year: **2025**	Flex revenue range £/MW: **£70,000 - £100,000**
Customers served: **2,135**	Current status: **Flexibility procurement**	Local authority: **Lewes Wealden**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT		0.4	0.5	0.7	0.9
ST		0.5	0.6	0.8	1.0
LW		0.5	0.7	0.8	1.0
FS		0.5	0.5	0.7	0.8
FLEX		40%	40%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Rye

Area: SPN
Postcode: TN31 7HT

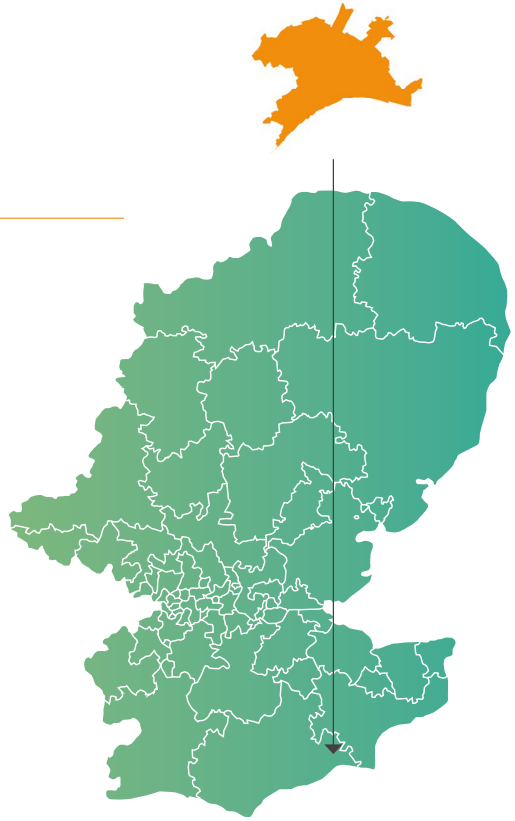
Constraint description:

The grid site is expected to be overloaded under N-1 outage condition due to limited transformer capacity.

Traditional solution:

In order to increase capacity at the site the traditional solution is to:

- Install a second grid transformer
- Extend the 33kV switchgear panel.



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

Constraint season
Winter

Constraint year
2026

Flex revenue range £/MW
£70,000 - £100,000

Customers served
6,819

Current status
Flexibility procurement

Local authority
Folkestone and Hythe Rother

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT			0.1	0.6	1.2
ST			0.3	0.7	1.3
LW			0.4	0.9	1.3
FS			0.2	0.6	0.9
FLEX			100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Smeeth

Area: SPN
Postcode: TN25 6SY

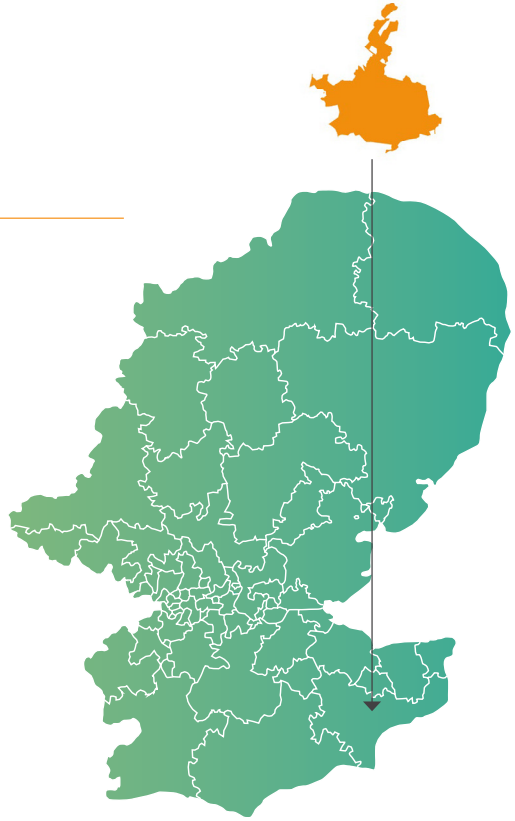
Constraint description:

The 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 traditional solution is to:

- Replace the existing transformer and add a second unit
- Replace the 11kV switchgear.



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

Constraint season **Summer**	Constraint year **2024**	Flex revenue range £/MW **£70,000 - £100,000**
Customers served **941**	Current status **Flexibility procurement**	Local authority **Ashford Folkestone and Hythe**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
✓	✓				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	1.0	1.0	1.0	1.1	1.1
ST	1.0	1.0	1.0	1.1	1.1
LW	1.0	1.0	1.0	1.1	1.1
FS	1.0	1.0	1.1	1.1	1.1
FLEX	20%	20%	20%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

St Helier

Area: SPN
Postcode: SM1 3TY

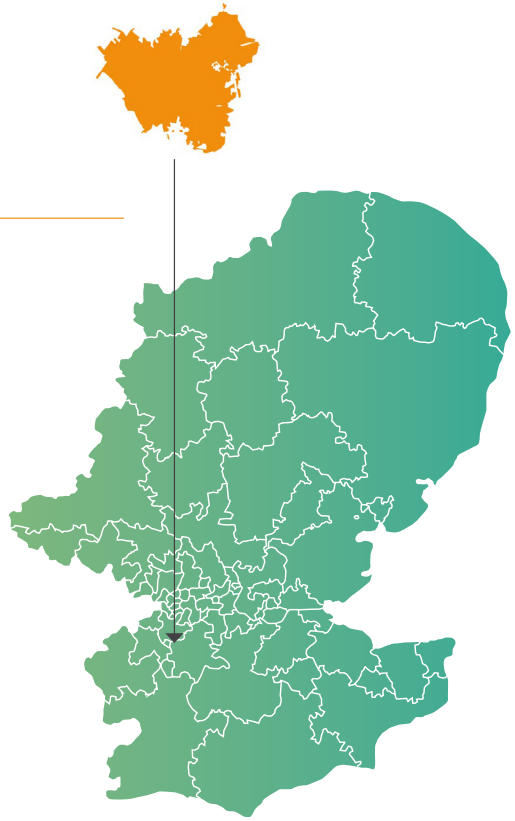
Constraint description:

The 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 traditional solution is to:

- Replace the existing transformers
- Replace the 11kV switchgear
- Increase the capacity of the 33kV circuits.



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

Constraint season
Winter

Constraint year
2024

Flex revenue range £/MW
£70,000 - £100,000

Customers served
18,262

Current status
Flexibility procurement

Local authority
Sutton

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.7	1.1	1.6	2.3	3.1
ST	1.3	1.8	2.4	3.1	3.9
LW	0.7	1.3	2.1	2.9	3.6
FS	1.5	2.0	2.6	3.3	3.9
FLEX	100%	60%	40%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

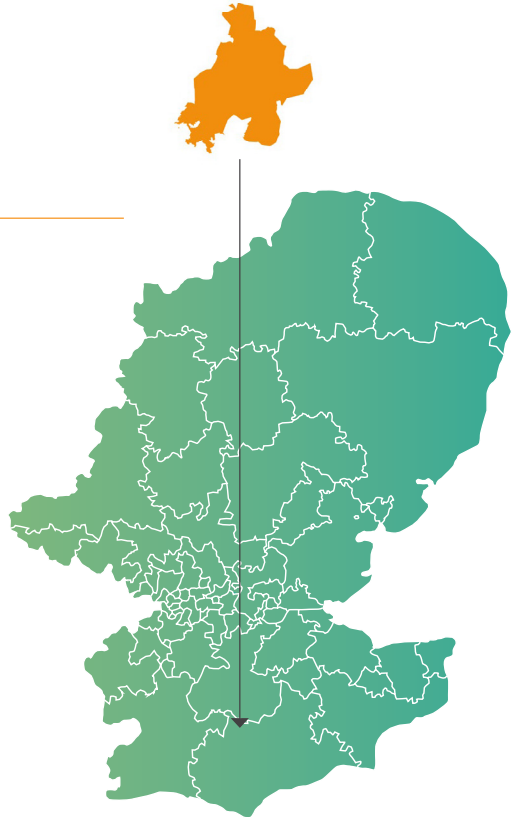
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Steel Cross

Area: SPN
Postcode: TN6 2XB

Constraint description:
The 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 traditional solution is to:
- Replace the existing transformer and add a second unit
- Replace the 11kV switchgear.



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

Constraint season
Summer/Winter

Constraint year
2024

Flex revenue range £/MW
£70,000 - £100,000

Customers served
2,385

Current status
Flexibility procurement

Local authority
Wealden

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.6	0.7	0.8	0.9	1.0
ST	0.7	0.8	0.9	1.1	1.2
LW	0.6	0.7	0.8	0.9	1.0
FS	0.7	0.8	0.9	1.0	1.2
FLEX	80%	20%	20%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Tunbridge Wells Group

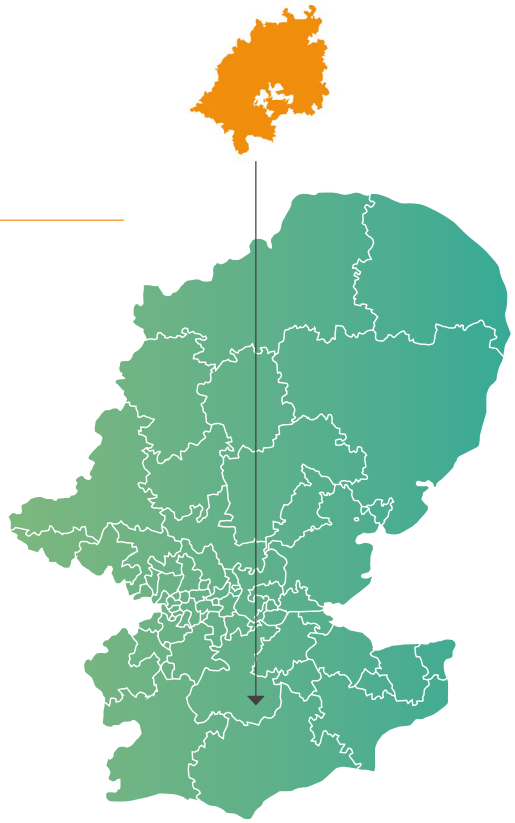
Area: SPN
Postcode: TN2 3GG

Constraint description:

The circuits supporting this 132kV group are expected to be overloaded under an N-1 outage condition due to limited circuit capacity.

Traditional solution:

In order to increase capacity for the group, a proposed solution is to replace 132kV conductors existing tower line circuits.



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

Constraint season
Winter

Constraint year
2026

Flex revenue range £/MW
£70,000 - £100,000

Customers served
63,657

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT			0.1	5.4	10.1
ST			4.2	9.5	14.2
LW			1.5	6.9	10.9
FS		0.0	4.8	9.6	13.6
FLEX			100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

West Weybridge

Area: SPN
Postcode: KT15 3AS

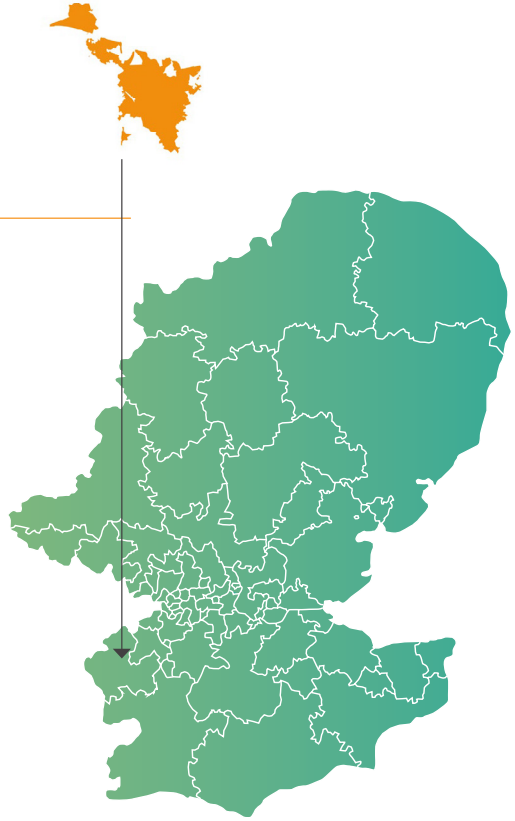
Constraint description:

The site is expected to be overloaded under N-1 outage condition due to limited transformer capacity.

Traditional solution:

In order to increase capacity at the site the traditional solution is to:

- Install a 132kV cable circuit
- Extend the 11kV switchgear panel
- Install a grid transformer.



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

Constraint season **Summer/Winter**	Constraint year **2025**	Flex revenue range £/MW **£9,800 - £14,000**
Customers served **14,630**	Current status **Flexibility procurement**	Local authority **Runnymede Surrey Heath**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT		6.5			
ST		7.1			
LW		6.3			
FS		7.4			
FLEX		10%			

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

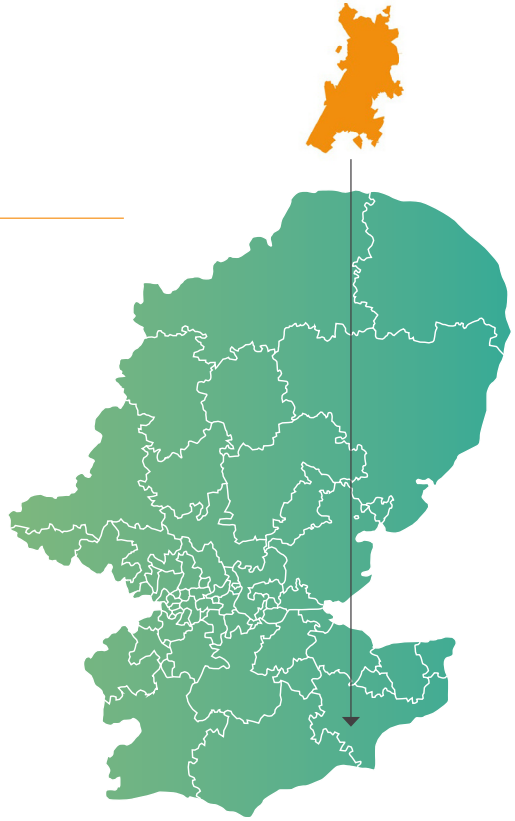
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Warehorne

Area: SPN
Postcode: TN26 2JX

Constraint description:
The site is expected to be overloaded under an N-1 outage condition due to limited interconnection capacity.

Traditional solution:
In order to increase capacity at the site the traditional solution is to:
- Install an additional transformer
- Replace the 11kV switchgear
- Install a new 33kV circuit.



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

Constraint season **Winter**	Constraint year **2024**	Flex revenue range £/MW **£70,000 - £100,000**
Customers served **1,813**	Current status **Flexibility procurement**	Local authority **Ashford Folkestone and Hythe**

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.2	0.3	0.5	0.9	1.2
ST	0.2	0.4	0.7	0.9	1.2
LW	0.1	0.3	0.7	0.9	1.2
FS	0.2	0.4	0.5	0.8	1.0
FLEX	100%				

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Warehorne Group

Area: SPN
Postcode: Mixed

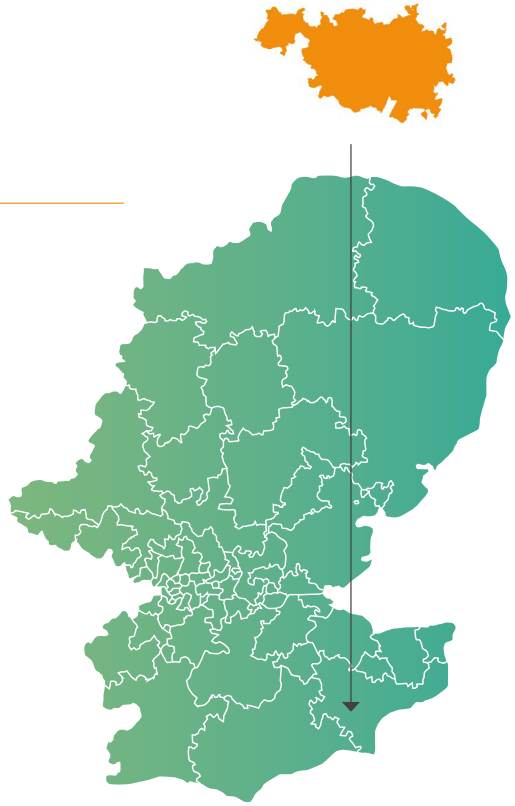
Constraint description:

The circuits supporting this group are expected to be overloaded under an N-1 outage condition due to voltage regulation.

Traditional solution:

In order to increase capacity at the site the traditional solution is to:

- Install an additional transformer
- Replace the 11kV switchgear
- Increase the capacity of the 33kV circuits.



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

Constraint season	**Winter/Summer**
Constraint year	**2024**
Flex revenue range £/MW	**£14,700 - £21,000**
Customers served	**14,174**
Current status	**Flexibility procurement**
Local authority	**Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender.
The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	6.6	7.3	8.2	9.5	10.9
ST	7.2	8.0	9.0	10.0	11.2
LW	6.6	7.6	8.7	9.8	11.0
FS	7.2	8.0	8.9	9.8	10.8
FLEX	<10%	10%	10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Wingham

Area: SPN
Postcode: CT3 3JD

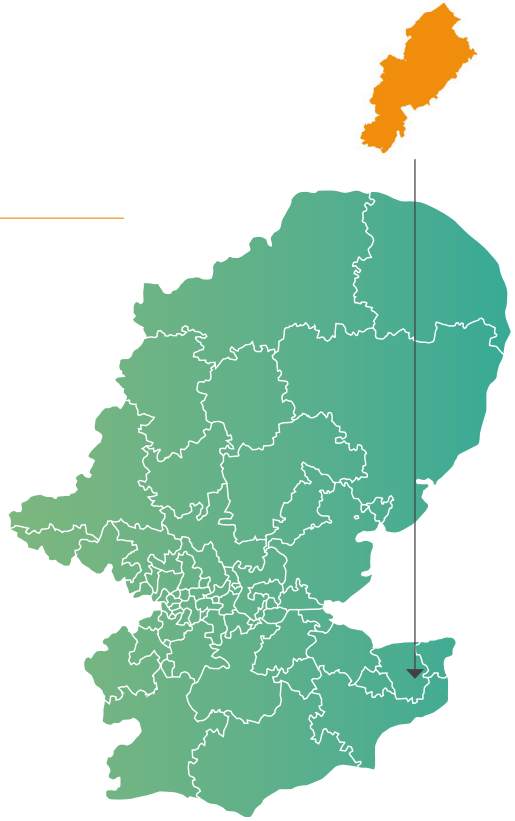
Constraint description:

The 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 traditional solution is to:

- Replace the existing transformers
- Replace the 11kV switchgear
- Increase the capacity of the 33kV circuits.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex revenue range £/MW
£16,100 - £23,000

Customers served
7,421

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
⇅	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	3.9	4.3	4.9	5.6	6.5
ST	4.4	4.9	5.6	6.3	7.2
LW	3.9	4.4	5.0	5.8	6.5
FS	4.6	5.0	5.6	6.3	7.0
FLEX	<10%	<10%	10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Wittersham

Area: SPN
Postcode: TN30 7HG

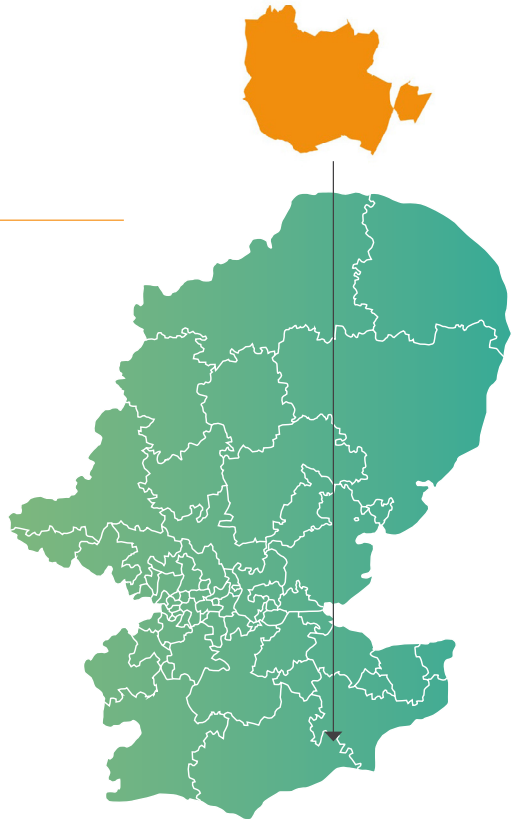
Constraint description:

The site is expected to be overloaded under an N-1 outage condition due to limited interconnection capacity.

Traditional solution:

In order to increase capacity at the site the traditional solution is to:

- Replace the existing transformers
- Replace the 6.6kV switchgear
- Increase the capacity of the 33kV circuits.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex revenue range £/MW
£70,000 - £100,000

Customers served
1,101

Current status
Reinforcement delivery

Local authority
Ashford

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. The procured flexibility will reduce the need to a level that can be managed via network adjustment. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	●				

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

	2024/ 2025	2025/ 2026	2026/ 2027	2027/ 2028	2028/ 2029
CT	1.1	1.1	1.2	1.2	1.4
ST	1.2	1.2	1.2	1.3	1.3
LW	1.1	1.1	1.2	1.2	1.2
FS	1.2	1.2	1.2	1.3	1.3
FLEX	10%	10%	10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Wrotham

Area: SPN
Postcode: TN15 7RR

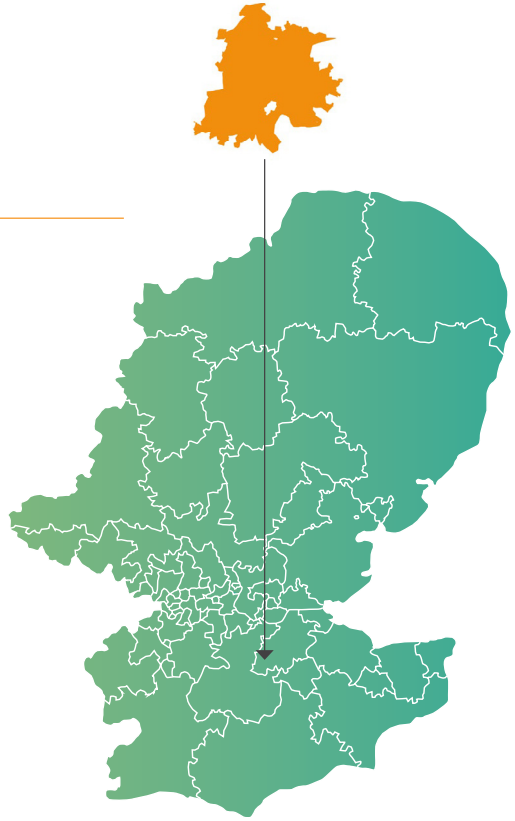
Constraint description:

The 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 traditional solution is to:

- Replace the existing transformers
- Replace the 11kV switchgear
- Increase the capacity of the 33kV circuits.



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

Constraint season
Winter

Constraint year
2024

Flex revenue range £/MW
£70,000 - £100,000

Customers served
8,032

Current status
Flexibility procurement

Local authority
Tonbridge and Malling

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.1	0.8	1.8	2.8	4.0
ST	0.5	1.4	2.4	3.4	4.5
LW	0.2	1.1	2.2	3.3	4.3
FS	0.4	1.2	2.1	2.9	3.8
FLEX	100%	60%	40%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

CHAPTER 02

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	Scheme name	DNOA 2024 Removal Reasoning
EPN	Ampthill	Updated forecasts
	Austin Canons Primary	Updated forecasts
	Basildon Local Total	Need appears after 3 years so we will likely include in DNOA 2025
	Bourn	Updated forecasts
	Brandon	Need appears after 3 years so we will likely include in DNOA 2025
	Brockenhurst Mill Hill Total	Project in delivery
	Brogborough	Updated forecasts
	Central Harpenden	Need managed via network flexibility
	Chaul End	Updated forecasts
	Coxford	Updated forecasts
	Cromer	Updated forecasts

Area	Scheme name	DNOA 2024 Removal Reasoning
EPN	East Barnet	Updated forecasts
	Elm Park	Need appears after 3 years so we will likely include in DNOA 2025
	Feltwell	Updated forecasts
	Hartspring	Need appears after 4 years so we will likely include in DNOA 2026
	High Street	Need driven by large connection whose load phasing is uncertain. We will monintor the load deployment and take action if required.
	Ilmer Grid 33	Need driven by large connection whose load phasing is uncertain. We will monintor the load deployment and take action if required.
	Leighton Buzzard	Reinforcement completed and constraint resolved
	Lt Massingham	Updated forecasts
	March Grid 33	Need appears after 4 years so we will likely include in DNOA 2026

Area	Scheme name	DNOA 2024 Removal Reasoning
EPN	Milton Road	Need driven by large connection whose load phasing is uncertain. We will monintor the load deployment and take action if required.
	Thorpe Grid 33	Need appears after 4 years so we will likely include in DNOA 2026
	Waddesdon	Work underway to resolve constraint
	West Letchworth Shefford Biggleswade T1 Group	Updated forecasts
	Wiggenhall	Updated forecasts
LPN	Aberdeen Place B	Updated forecasts
	Back Hill 11kV T4	Updated forecasts
	Back Hill 132kV Group	Circuits currently being worked on
	Blackhorse Lane	Updated forecasts
	Bromley South	Updated forecasts
	Eltham Grid 11kV	Updated forecasts
	Eltham Grid 33kV	Updated forecasts
	Exeter Road	Updated forecasts
	Nelson Street	Work underway to resolve constraint
	Sewell Road	Updated forecasts
SPN	Betchworth T1	Updated forecasts

Area	Scheme name	DNOA 2024 Removal Reasoning
SPN	Capel T2	Need has droped plus we had previously procured Flex capacity
	Chatham West A (T1 and T2)	Work underway to resolve constraint
	Chatham West B (T3 and T4)	Updated forecasts
	Cranbrook	Updated forecasts
	Dover T1/T2	Updated forecasts
	Dymchurch	Updated forecasts
	Guildford A 11kV	Updated forecasts
	Guildford B 11kV	Updated forecasts
	Lewes Central	Updated forecasts
	Nutfield	Updated forecasts
	Sevington Total	Updated forecasts
	Sittingbourne Grid GT1 GT2	Work underway to resolve constraint
	South Orpington	Updated forecasts
	St Peters	Updated forecasts
	Staplehurst	Updated forecasts
	Townsend Hook	Updated forecasts
	West Worthing	Updated forecasts
	Weybridge	Updated forecasts

CHAPTER 02

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.

We explained a number of use cases where the whole systems approach is being implemented. In this DNOA Report document, we include an update on our West London use where we seek flexibility to deliver whole system benefits.

West London

The West London network load increase is requiring a coordinated approach as we explain in the methodology document. As part of the solution, we are procuring flexibility in the Willesden Grid substation. The appropriate report in the LPN section above showcases our progress to date that will ultimately help release capacity for new connections.

CHAPTER 03

HV Generation Results

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

DSO DISTRIBUTION SYSTEM OPERATOR

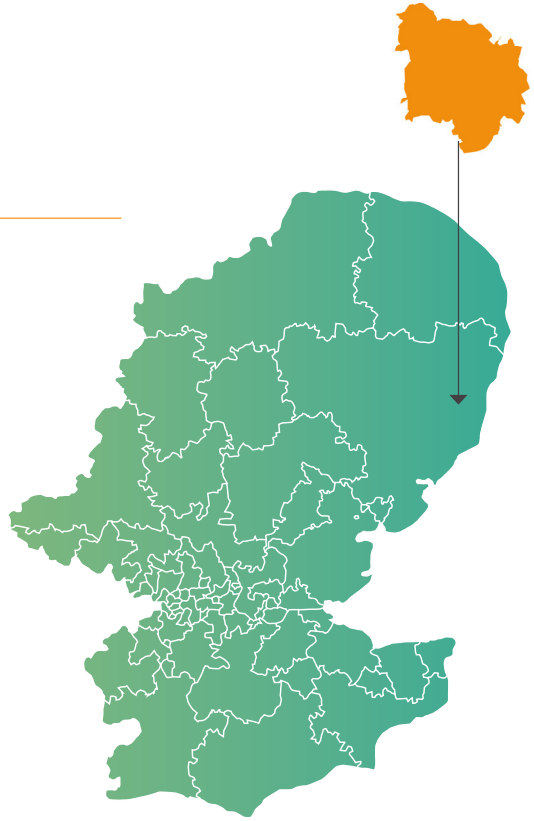
UK Power Networks Delivering your electricity

Benhall

Area: EPN
Postcode: IP17 1JJ

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
3,562

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	5	5	5		
ST	5	5	5		
LW	5	5	5		
FS	5	5	5		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

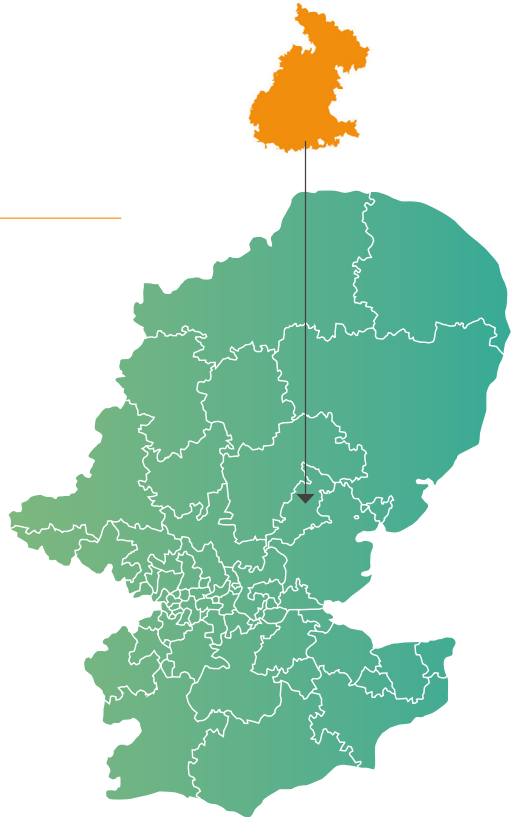
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Braintree Local

Area: EPN
Postcode: CM77 8DJ

Constraint description:
A grid transformer is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the grid transformer.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
53,757

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	34	34	34		
ST	34	34	34		
LW	34	34	34		
FS	34	34	34		
FLEX	20%	20%	20%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

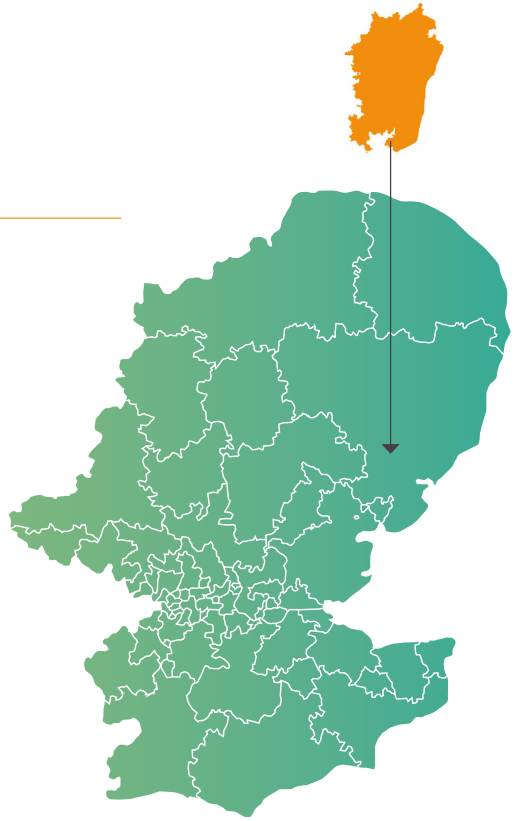
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Bramford

Area: EPN
Postcode: IP8 4JL

Constraint description:
A 132kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 132kV feeder.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
84,045

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	27.9	27.9	27.9		
ST	27.9	27.9	27.9		
LW	27.9	27.9	27.9		
FS	27.9	27.9	27.9		
FLEX	>100%	>100%	>100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

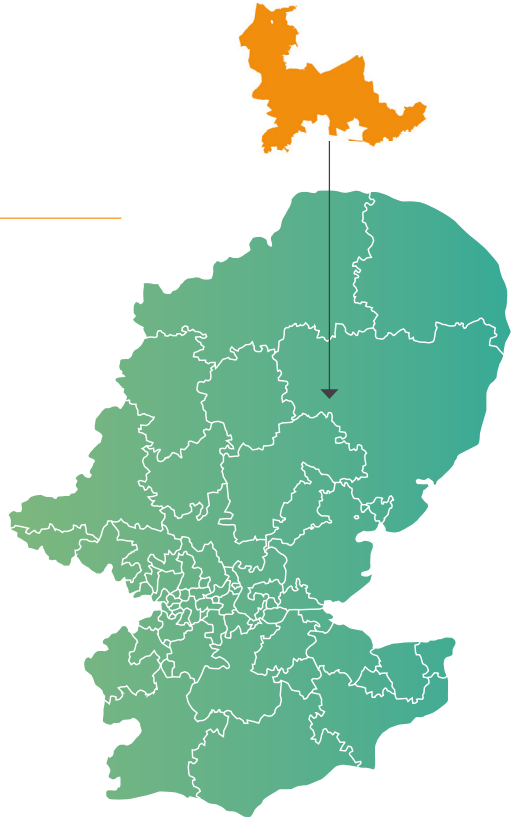
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Bury Grid 1

Area: EPN
Postcode: IP33 2AX

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **44,107**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	1.9	1.9	1.9		
ST	1.9	1.9	1.9		
LW	1.9	1.9	1.9		
FS	1.9	1.9	1.9		
FLEX	50%	50%	50%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

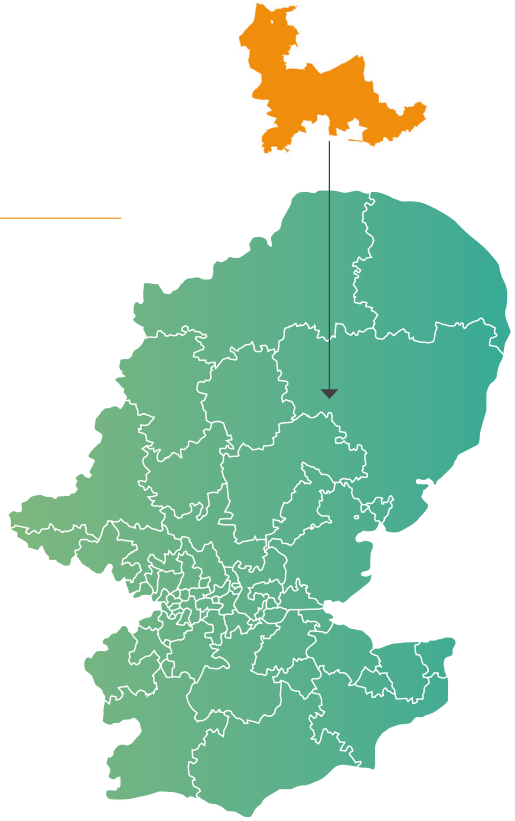
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Bury Grid 2

Area: EPN
Postcode: IP33 2AX

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **44,107**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	1.9	1.9	1.9		
ST	1.9	1.9	1.9		
LW	1.9	1.9	1.9		
FS	1.9	1.9	1.9		
FLEX	50%	50%	50%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

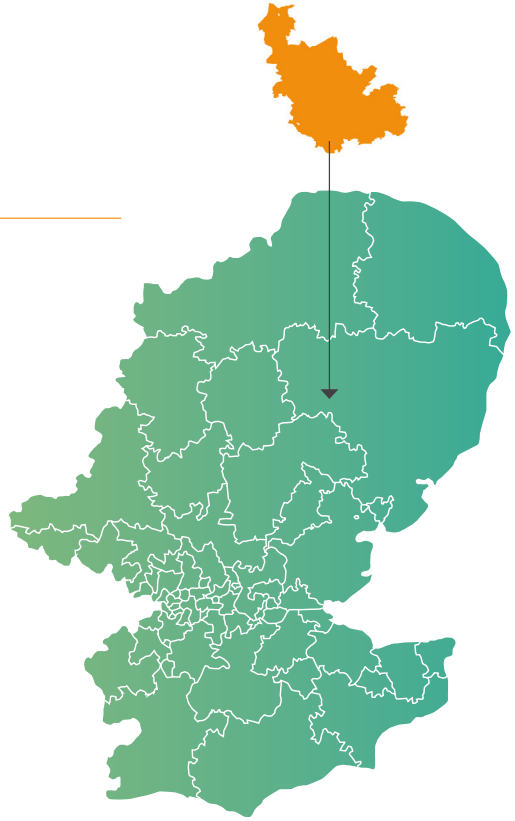
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Bury Grid

Area: EPN
Postcode: IP33 2AX

Constraint description:
A grid transformer is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the grid transformer.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
44,107

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	11.5	11.5	11.5		
ST	11.5	11.5	11.5		
LW	11.5	11.5	11.5		
FS	11.5	11.5	11.5		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

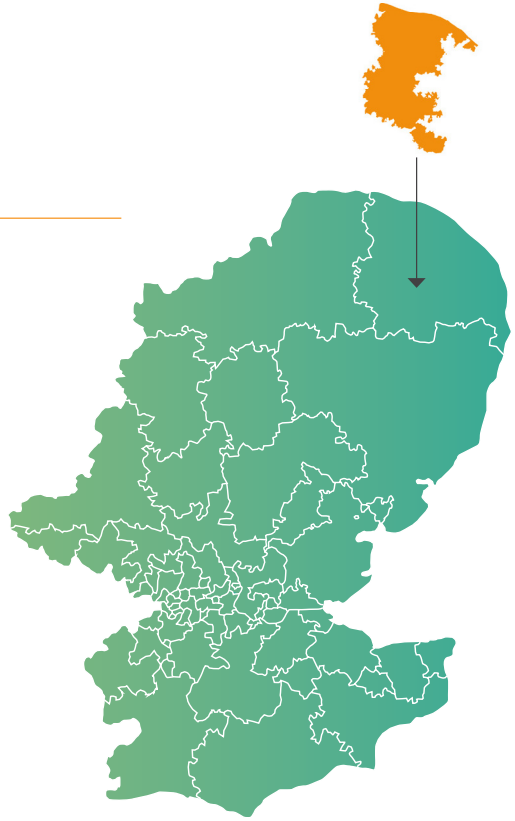
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Earlham Norwich

Area: EPN
Postcode: NR5 8NQ

Constraint description:
A 132kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 132kV feeder.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
116,096

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	70.5	70.5	70.5		
ST	70.5	70.5	70.5		
LW	70.5	70.5	70.5		
FS	70.5	70.5	70.5		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

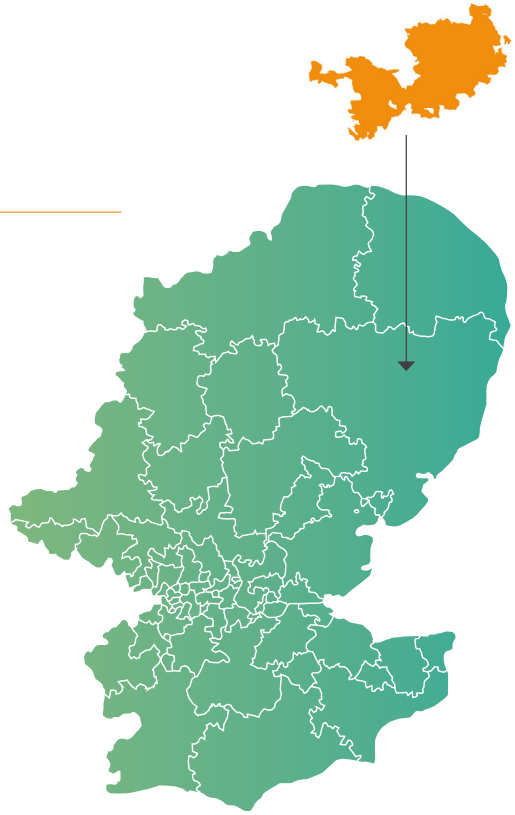
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Eye

Area: EPN
Postcode: IP23 7NJ

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **3,491**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	5	5	5		
ST	5	5	5		
LW	5	5	5		
FS	5	5	5		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

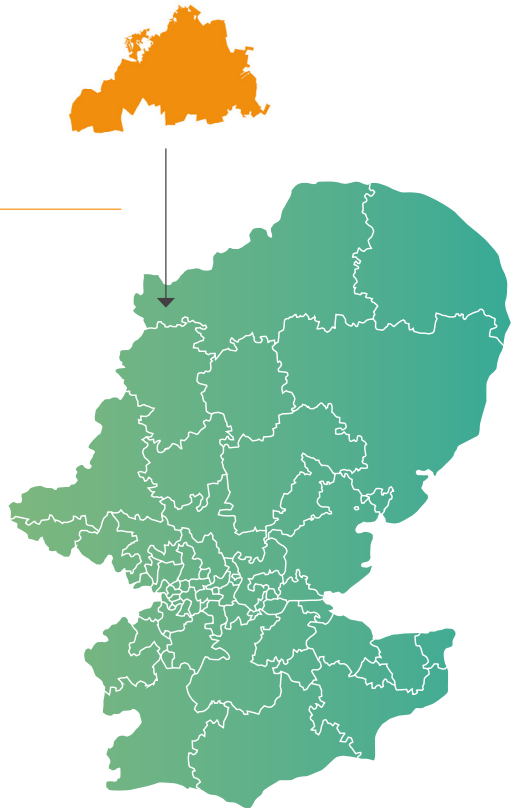
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Farcet 1

Area: EPN
Postcode: PE7 3BJ

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **9,798**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	11.7	11.7	11.7		
ST	11.7	11.7	11.7		
LW	11.7	11.7	11.7		
FS	11.7	11.7	11.7		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

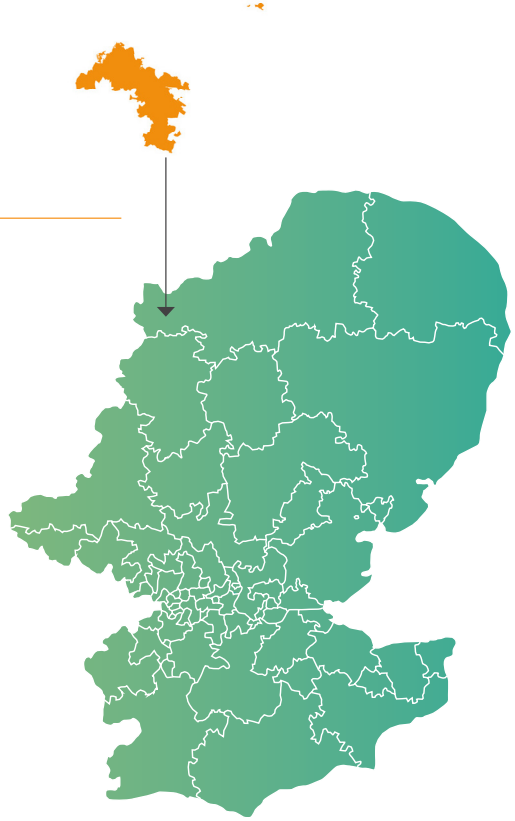
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Farcet 2

Area: EPN
Postcode: PE7 3BJ

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **9,798**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	8.3	8.3	8.3		
ST	8.3	8.3	8.3		
LW	8.3	8.3	8.3		
FS	8.3	8.3	8.3		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

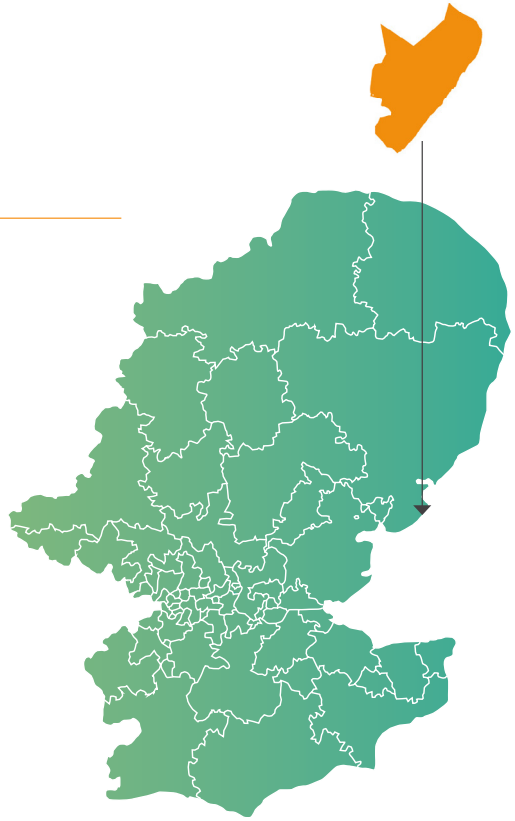
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Frinton

Area: EPN
Postcode: CO13 9NH

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **10,541**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	5	5	5		
ST	5	5	5		
LW	5	5	5		
FS	5	5	5		
FLEX	10%	10%	10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

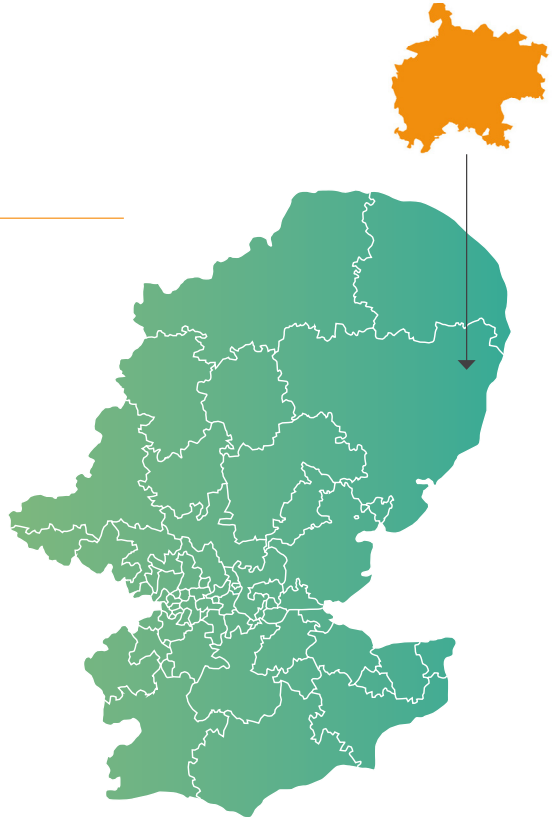
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Halesworth

Area: EPN
Postcode: IP19 8QJ

Constraint description:
A primary transformer is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the primary transformer.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **5,536**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	5	5	5		
ST	5	5	5		
LW	5	5	5		
FS	5	5	5		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

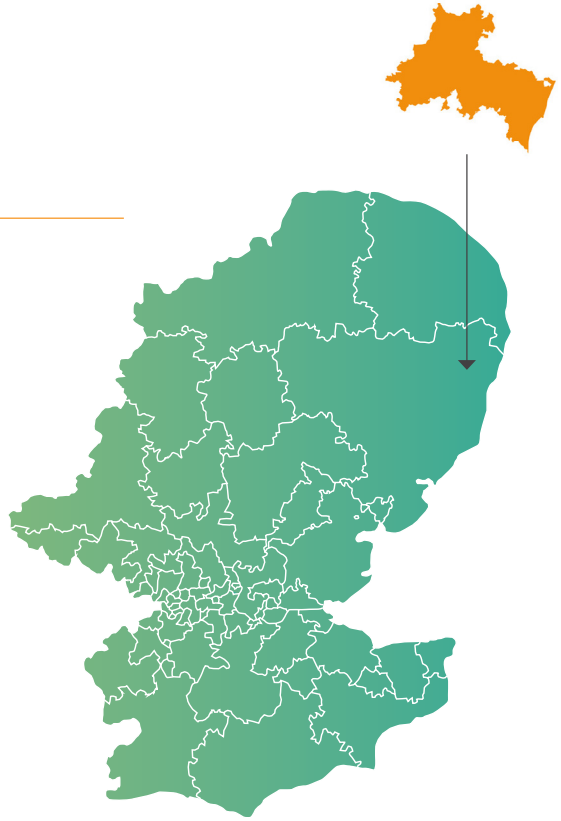
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Halesworth Market Grid

Area: EPN
Postcode: IP19 8QJ

Constraint description:
A grid transformer is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the grid transformer.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **21,754**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	12.1	12.1	12.1		
ST	12.1	12.1	12.1		
LW	12.1	12.1	12.1		
FS	12.1	12.1	12.1		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

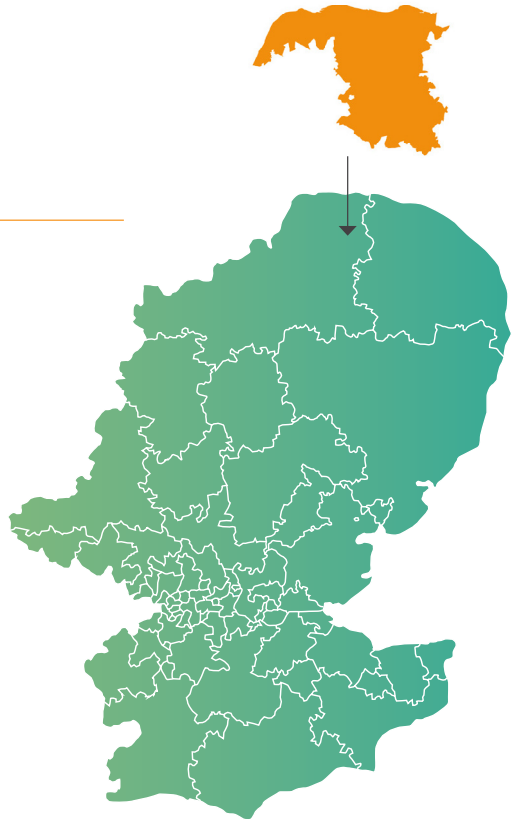
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Hempton Grid

Area: EPN
Postcode: NR21 7LJ

Constraint description:
A grid transformer is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the grid transformer.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
22,336

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.8	0.8	0.8		
ST	0.8	0.8	0.8		
LW	0.8	0.8	0.8		
FS	0.8	0.8	0.8		
FLEX	>100%	>100%	>100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

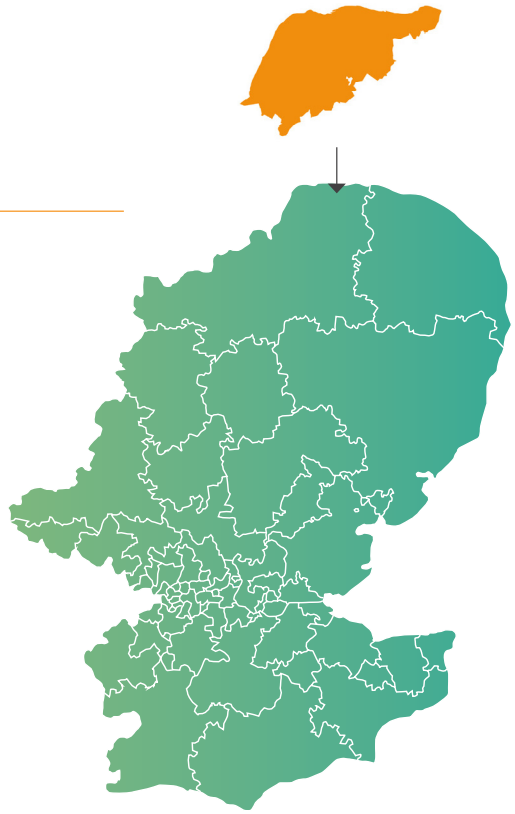
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Burnham Thorpe

Area: EPN
Postcode: PE31 8HL

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **4,230**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	5	5	5		
ST	5	5	5		
LW	5	5	5		
FS	5	5	5		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

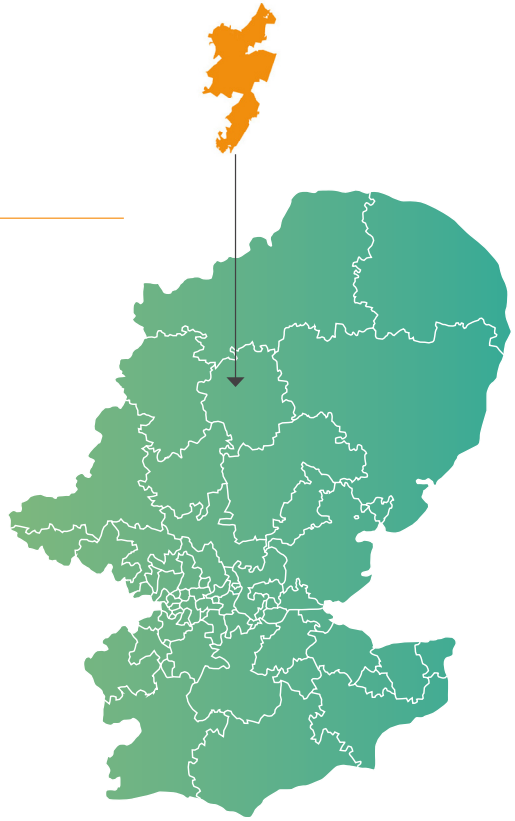
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Landbeach 1

Area: EPN
Postcode: CB25 9PG

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
4,214

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	10	10	10		
ST	10	10	10		
LW	10	10	10		
FS	10	10	10		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

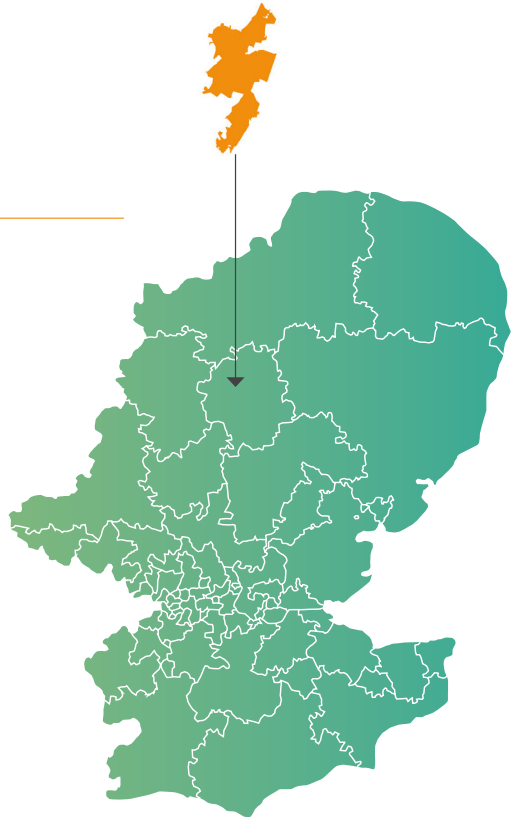
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Landbeach 2

Area: EPN
Postcode: CB25 9PG

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **4,214**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	7	7	7		
ST	7	7	7		
LW	7	7	7		
FS	7	7	7		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Lawford 1

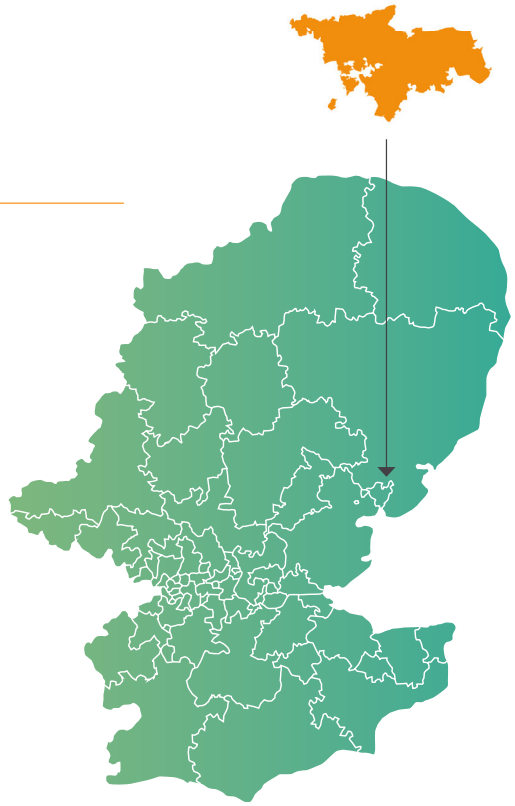
Area: EPN
Postcode: CO11 2QA

Constraint description:

A 132kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:

In order to increase capacity at the site the traditional solution is to replace the 132kV feeder.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
33,956

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	72.7	72.7	72.7		
ST	72.7	72.7	72.7		
LW	72.7	72.7	72.7		
FS	72.7	72.7	72.7		
FLEX	30%	30%	30%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

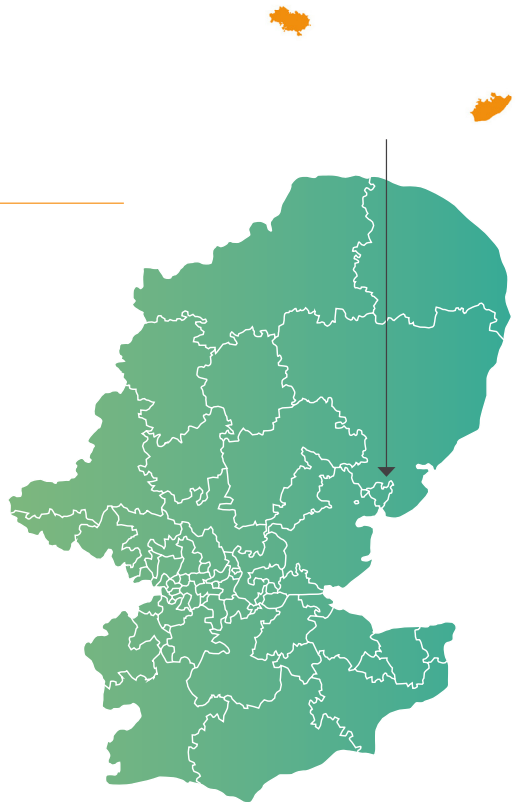
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Lawford 2

Area: EPN
Postcode: CO11 2QA

Constraint description:
A 132kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 132kV feeder.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **33,956**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	19.6	19.6	19.6		
ST	19.6	19.6	19.6		
LW	19.6	19.6	19.6		
FS	19.6	19.6	19.6		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

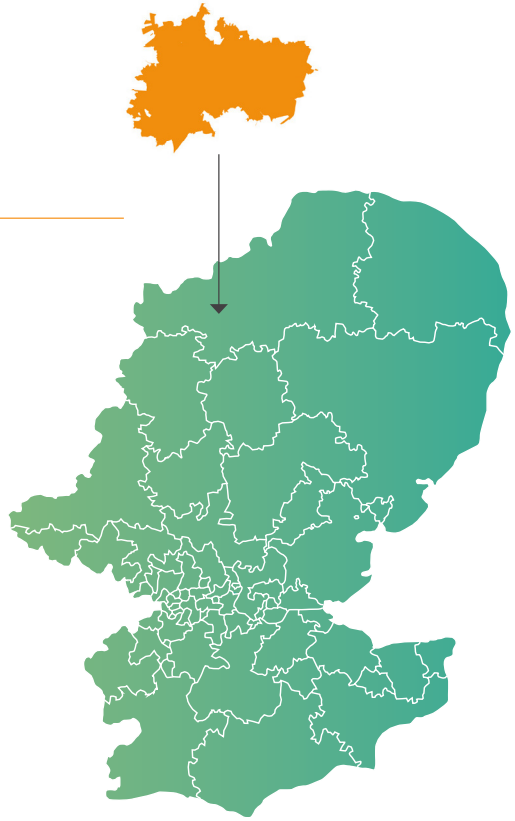
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

March Grid

Area: EPN
Postcode: PE15 9RH

Constraint description:
A grid transformer is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the grid transformer.



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

Constraint season	Constraint year	Flex utilisation fee (£/MWh)
Winter/Summer	2024	£156

Customers served	Current status	Local authority
30,107	Flexibility procurement	Multiple

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	17.7	17.7	17.7		
ST	17.7	17.7	17.7		
LW	17.7	17.7	17.7		
FS	17.7	17.7	17.7		
FLEX	>100%	>100%	>100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

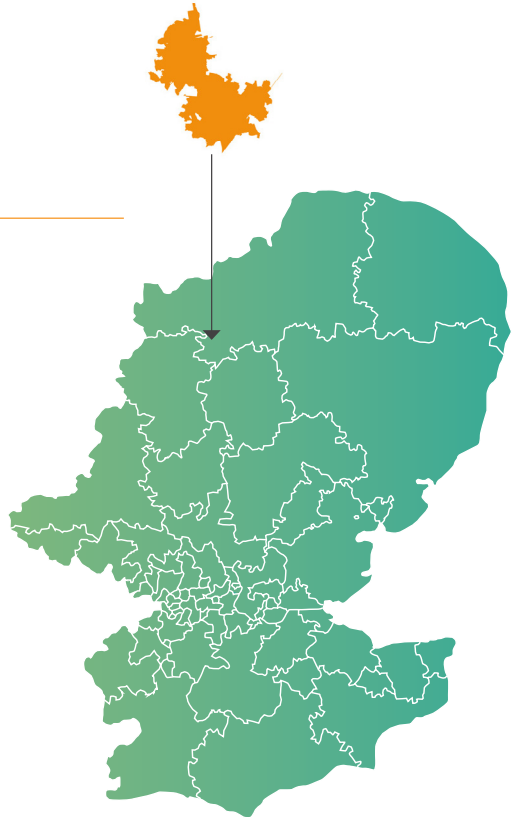
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Whittlesey Chatteris 1

Area: EPN
Postcode: PE16 6TG

Constraint description:
A grid transformer is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the grid transformer.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
10,786

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	1	1	1		
ST	1	1	1		
LW	1	1	1		
FS	1	1	1		
FLEX	>100%	>100%	>100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

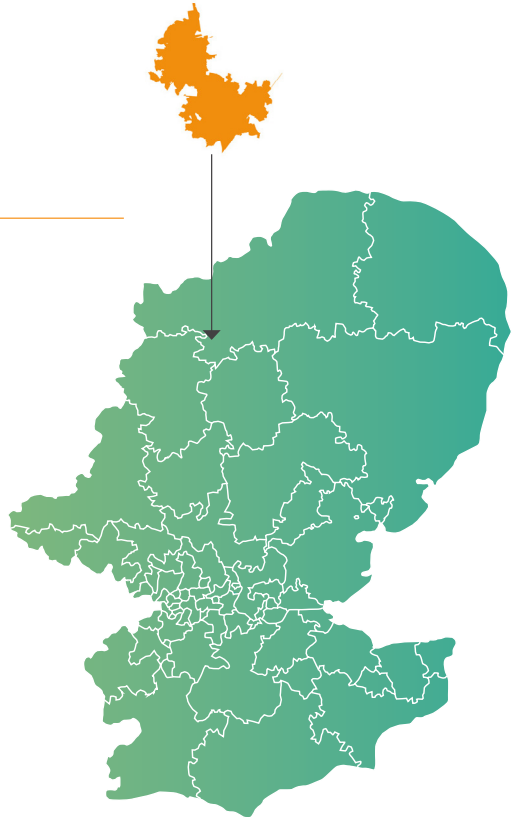
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Whittlesey Chatteris 2

Area: EPN
Postcode: PE16 6TG

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **10,786**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	0.8	0.8	0.8		
ST	0.8	0.8	0.8		
LW	0.8	0.8	0.8		
FS	0.8	0.8	0.8		
FLEX	>100%	>100%	>100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

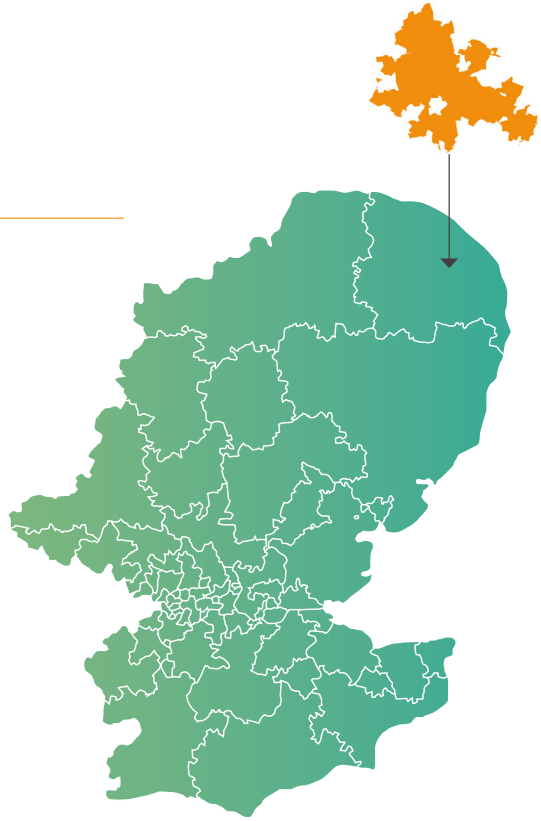
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Wroxham

Area: EPN
Postcode: NR12 8UT

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
4,619

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	8.8	8.8	8.8		
ST	8.8	8.8	8.8		
LW	8.8	8.8	8.8		
FS	8.8	8.8	8.8		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

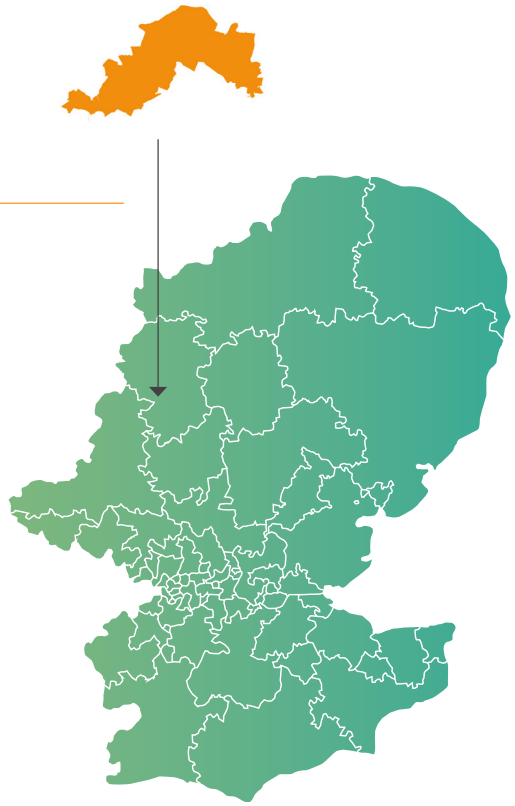
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Little Barford Offord

Area: EPN
Postcode: PE19 6YQ

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **41,454**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	9.3	9.3	9.3		
ST	9.3	9.3	9.3		
LW	9.3	9.3	9.3		
FS	9.3	9.3	9.3		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

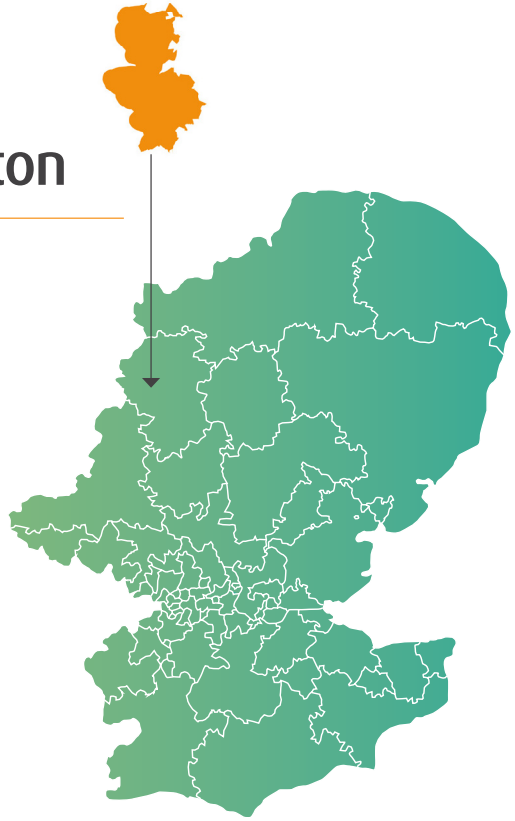
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Perry Little Barford Kimbolton

Area: EPN
Postcode: PE28 0BW

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **2,210**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	5	5	5		
ST	5	5	5		
LW	5	5	5		
FS	5	5	5		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

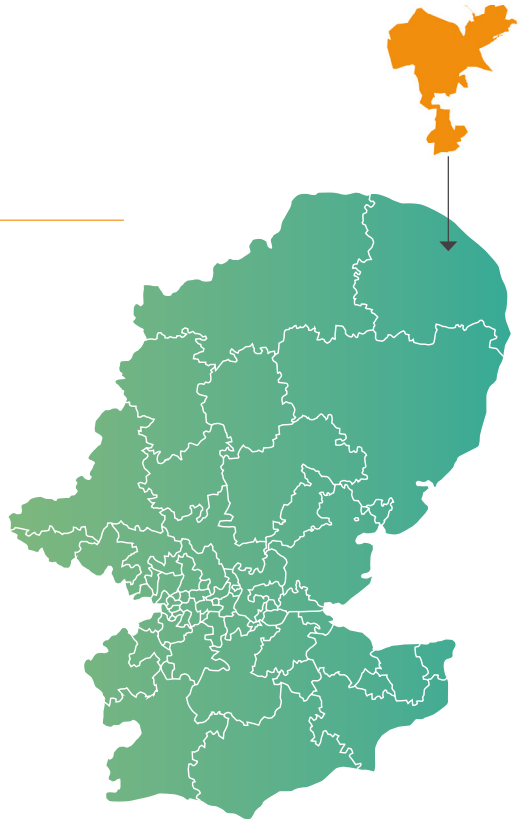
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Worstead

Area: EPN
Postcode: NR28 9RX

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **509**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	1.5	1.5	1.5		
ST	1.5	1.5	1.5		
LW	1.5	1.5	1.5		
FS	1.5	1.5	1.5		
FLEX	30%	30%	30%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

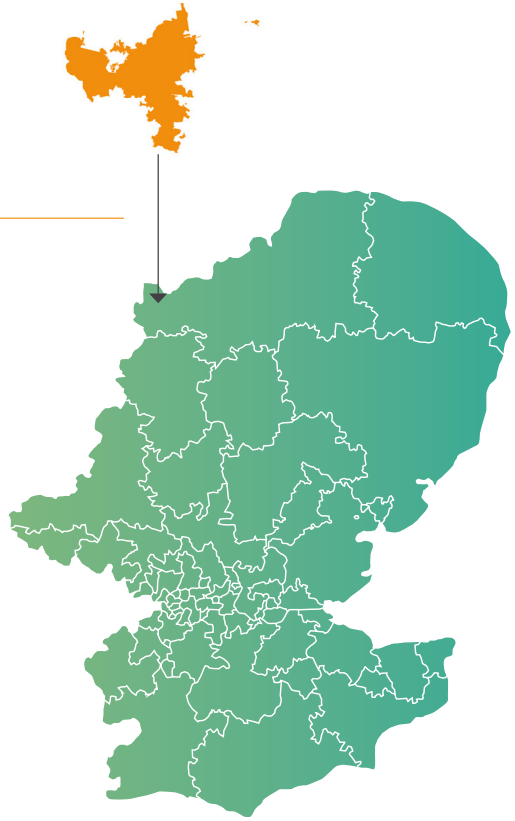
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Peterborough Grid

Area: EPN
Postcode: PE3 7PG

Constraint description:
A grid transformer is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the grid transformer.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
31,506

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	34.8	34.8	34.8		
ST	34.8	34.8	34.8		
LW	34.8	34.8	34.8		
FS	34.8	34.8	34.8		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

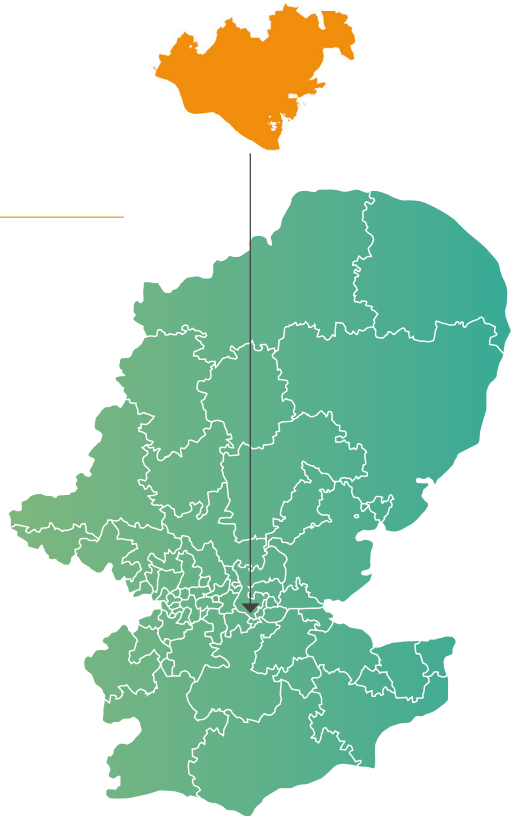
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Purfleet Grid

Area: EPN
Postcode: RM19 1NS

Constraint description:
A grid transformer is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the grid transformer.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **30,572**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	4.3	4.3	4.3		
ST	4.3	4.3	4.3		
LW	4.3	4.3	4.3		
FS	4.3	4.3	4.3		
FLEX	30%	30%	30%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Rayleigh Main

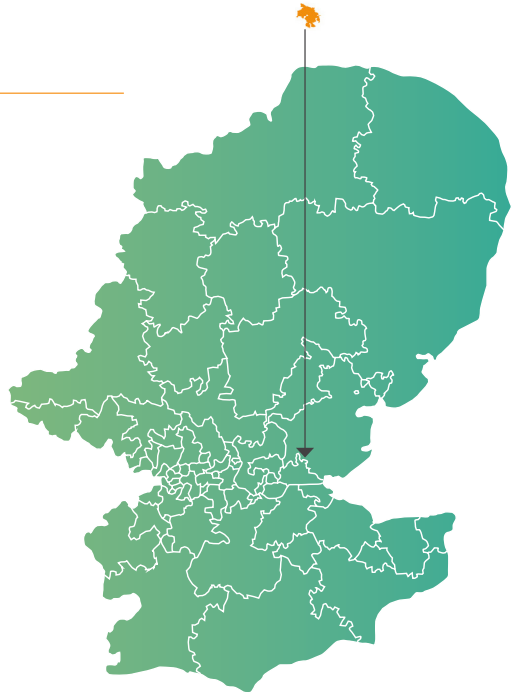
Area: EPN
Postcode: SS11 8TZ

Constraint description:

A 132kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:

In order to increase capacity at the site the traditional solution is to replace the 132kV feeder.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
63,099

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	74.9	74.9	74.9		
ST	74.9	74.9	74.9		
LW	74.9	74.9	74.9		
FS	74.9	74.9	74.9		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

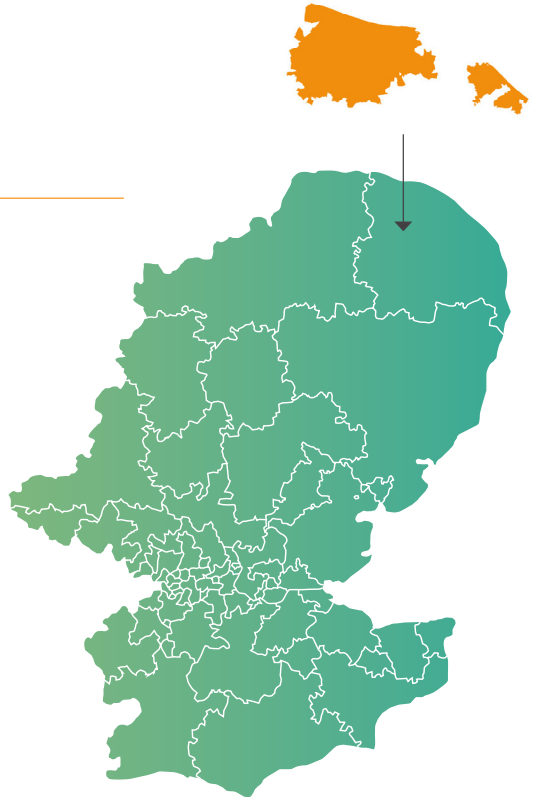
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Sall West Beckham

Area: EPN
Postcode: NR10 4EP

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **60,513**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	5.1	5.1	5.1		
ST	5.1	5.1	5.1		
LW	5.1	5.1	5.1		
FS	5.1	5.1	5.1		
FLEX	20%	20%	20%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

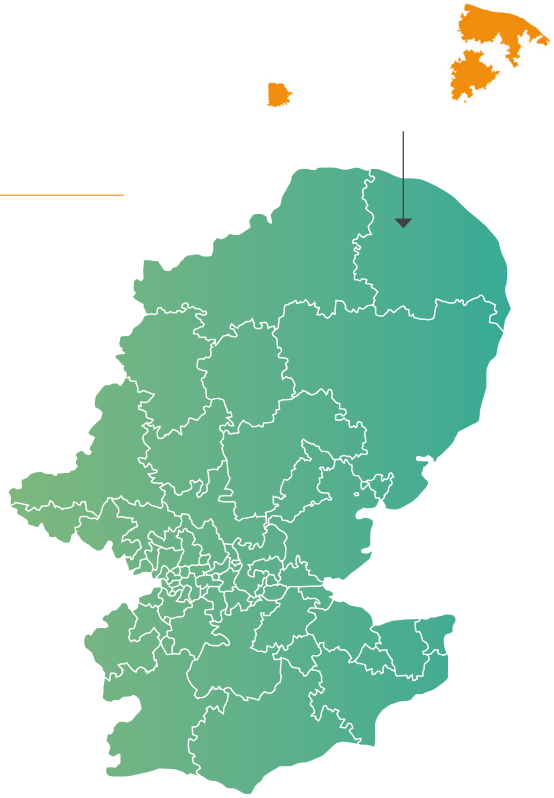
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Sall Grid

Area: EPN
Postcode: NR10 4EP

Constraint description:
A grid transformer is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the grid transformer.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
60,513

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	3	3	3		
ST	3	3	3		
LW	3	3	3		
FS	3	3	3		
FLEX	100%	100%	100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

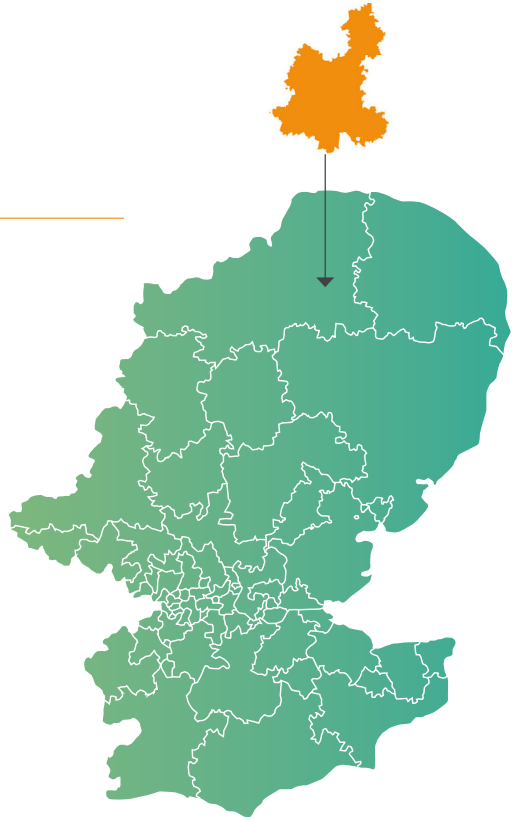
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Swaffham Grid

Area: EPN
Postcode: PE37 8DB

Constraint description:
A grid transformer is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the grid transformer.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **25,976**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	8	8	8		
ST	8	8	8		
LW	8	8	8		
FS	8	8	8		
FLEX	20%	20%	20%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

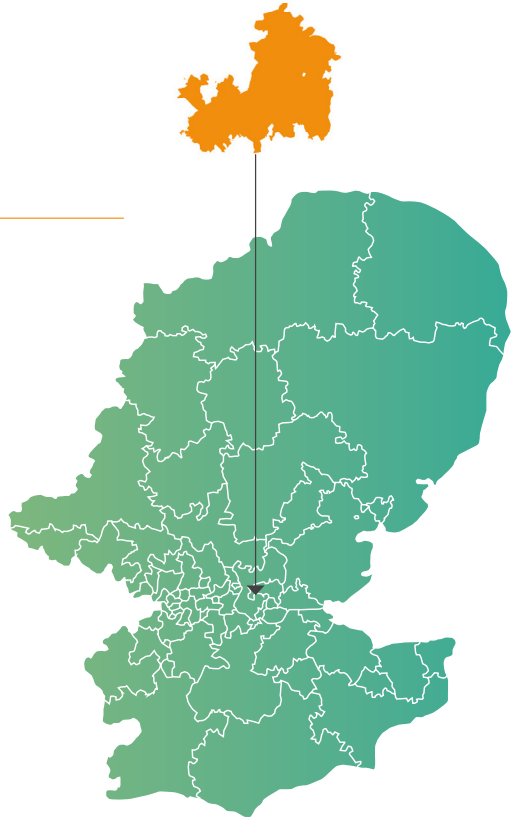
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Warley Grid

Area: EPN
Postcode: RM14 3PL

Constraint description:
A 132kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 132kV feeder.



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

Constraint season **Winter/Summer**	Constraint year **2024**	Flex utilisation fee (£/MWh) **£156**
Customers served **54,550**	Current status **Flexibility procurement**	Local authority **Multiple**

Approved DNOA recommendation:

We procured sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We will continue procuring flexibility in the next 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 (%)

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	12.7	12.7	12.7		
ST	12.7	12.7	12.7		
LW	12.7	12.7	12.7		
FS	12.7	12.7	12.7		
FLEX	>100%	>100%	>100%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

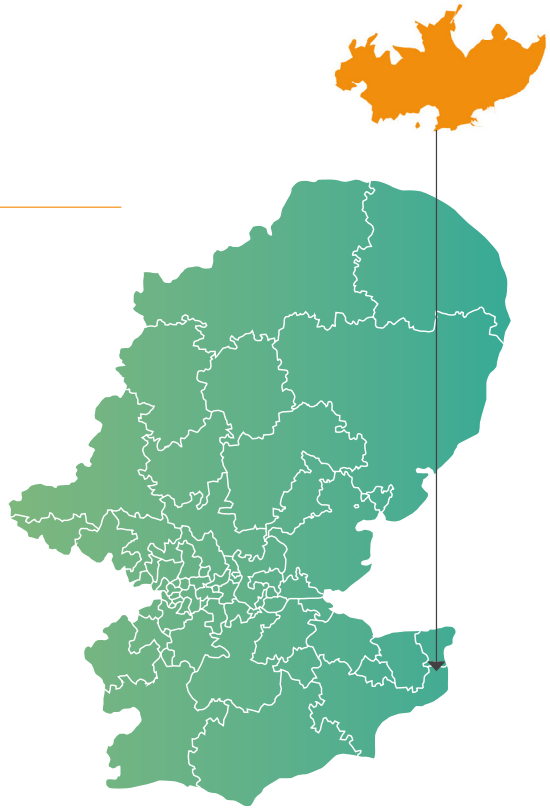
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Betteshanger Grid

Area: SPN
Postcode: CT14 0LT

Constraint description:
A 33kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 33kV feeder.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
32,547

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	5	5	5		
ST	5	5	5		
LW	5	5	5		
FS	5	5	5		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

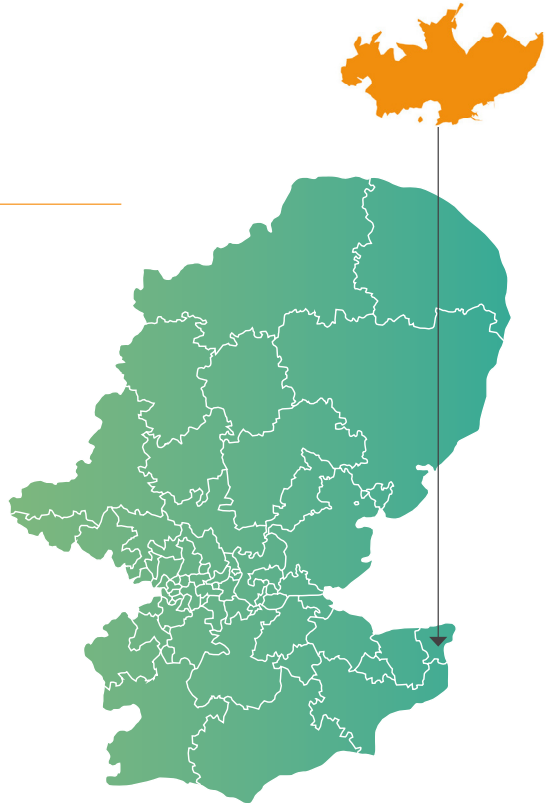
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Richborough 1

Area: SPN
Postcode: CT13 9NL

Constraint description:
A 132kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 132kV feeder.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
25,060

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	56.8	56.8	56.8		
ST	56.8	56.8	56.8		
LW	56.8	56.8	56.8		
FS	56.8	56.8	56.8		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

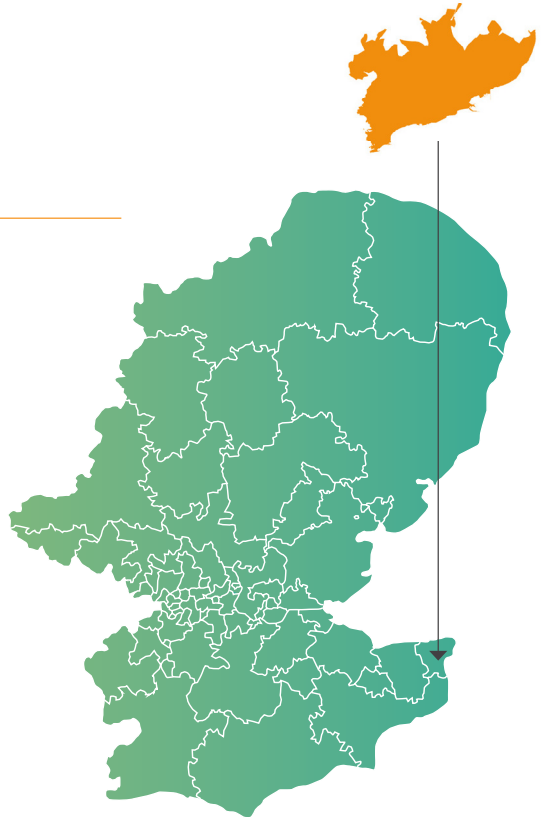
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Richborough 2

Area: SPN
Postcode: CT13 9NL

Constraint description:
A 132kV feeder is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the 132kV feeder.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
25,060

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	↕				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	34.9	34.9	34.9		
ST	34.9	34.9	34.9		
LW	34.9	34.9	34.9		
FS	34.9	34.9	34.9		
FLEX	<10%	<10%	<10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

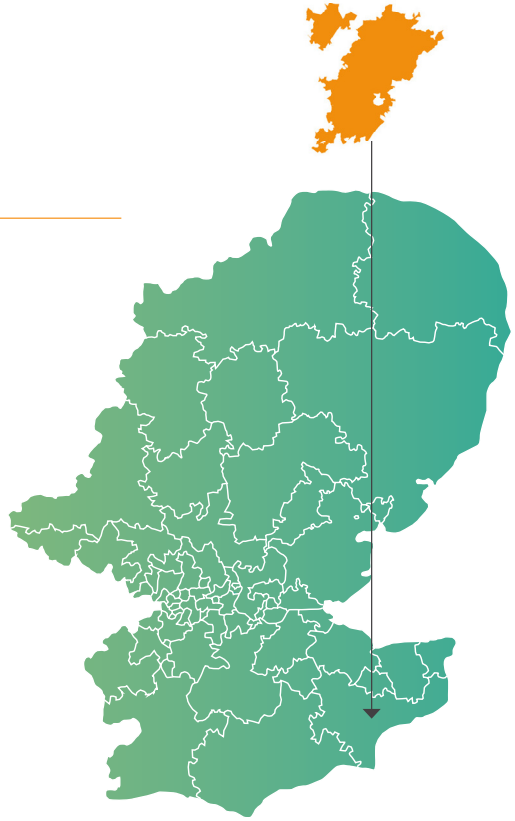
For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

Sellindge Local

Area: SPN
Postcode: TN25 6AF

Constraint description:
A grid transformer is expected to be overloaded at maximum generation conditions in the network.

Traditional solution:
In order to increase capacity at the site the traditional solution is to replace the grid transformer.



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

Constraint season
Winter/Summer

Constraint year
2024

Flex utilisation fee (£/MWh)
£156

Customers served
15,856

Current status
Flexibility procurement

Local authority
Multiple

Approved DNOA recommendation:

We were not able to procure sufficient flexibility for the first year through our Autumn 2023 Flexibility Tender. We aim to procure more flexibility in the upcoming tender events.

DNOA result history:

2023	2024	2025	2026	2027	2028
	⇅				

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

	2024/2025	2025/2026	2026/2027	2027/2028	2028/2029
CT	2.6	2.6	2.6		
ST	2.6	2.6	2.6		
LW	2.6	2.6	2.6		
FS	2.6	2.6	2.6		
FLEX	10%	10%	10%		

Key: Signposting | Reinforcement | Flexibility

Legend: **CT:** Consumer Transformation **ST:** System Transformation **LW:** Leading the Way **FS:** Falling Short **FLEX:** Flexibility Procurement Progress

For more information, please get in touch via email to networkoptionsassessment@ukpowernetworks.co.uk

CHAPTER 04

LV Demand Results

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

CHAPTER 04

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 UKPN DSO website, in the flexibility hub section[5].

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	Albion Rd	2026	500	0	Procure more flex in future tender events
	America Farm Doddinghurst Rd	2024	200	0	Procure more flex in future tender events
	Ampthill Road	2026	800	10	Sufficient flexibility procured
	Anglers Retreat	2024	200	0	Procure more flex in future tender events
	Arla Street Lights	2024	200	0	Procure more flex in future tender events
	Ash Grove	2026	800	0	Procure more flex in future tender events
	Ashton Gdns	2026	1000	10	Sufficient flexibility procured
	Bancroft Cl	2026	800	10	Sufficient flexibility procured
	Bannold Road	2026	500	10	Procure more flex in future tender events

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	Barbara Avenue	2024	800	0	Procure more flex in future tender events
	Barcham Fm	2024	200	0	Procure more flex in future tender events
	Barley Way	2025	1000	0	Procure more flex in future tender events
	Beech Drive	2026	500	10	Sufficient flexibility procured
	Belvedere Garages	2026	800	29	Sufficient flexibility procured
	Bishops House Stock	2026	200	0	Procure more flex in future tender events
	Boby Road	2026	500	0	Procure more flex in future tender events
	Bonham Road	2026	800	10	Procure more flex in future tender events
	Bott Heath Transmitter	2024	100	0	Procure more flex in future tender events

[5] Tender Hub - UKPN DSO (ukpowernetworks.co.uk)

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	Bourne Avenue	2026	1315	14	Procure more flex in future tender events
	Box Tree Farm	2024	315	0	Procure more flex in future tender events
	Brackett	2024	315	0	Procure more flex in future tender events
	Bradfields Fm Burnt Mills Rd	2024	200	10	Procure more flex in future tender events
	Broadland Pk Streetlight	2024	200	14	Sufficient flexibility procured
	Broadlands Avenue	2026	500	10	Sufficient flexibility procured
	Brockhurst Road	2025	1000	0	Procure more flex in future tender events
	Brooke Lane	2025	500	0	Procure more flex in future tender events
	Brudenell	2026	1315	10	Sufficient flexibility procured
	Buckland Wharf	2026	1000	10	Sufficient flexibility procured
	Bulls Ln	2026	1315	0	Procure more flex in future tender events
	Burford Estate	2026	800	0	Procure more flex in future tender events
	Cambridge Rd	2026	800	15	Sufficient flexibility procured
	Candlefield Rd	2026	800	10	Sufficient flexibility procured

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	Cannon Lane 194	2025	1000	0	Procure more flex in future tender events
	Carron Dr	2024	1000	59	Procure more flex in future tender events
	Carter Road	2026	800	0	Procure more flex in future tender events
	Cedar Dr	2025	1000	0	Procure more flex in future tender events
	Cestreham Crescent	2025	800	0	Procure more flex in future tender events
	Chalet	2024	1000	14	Procure more flex in future tender events
	Chapel Lane Padmount	2026	200	10	Procure more flex in future tender events
	Cheshunt Park	2024	200	0	Procure more flex in future tender events
	Cheshunt West Mast	2024	200	0	Procure more flex in future tender events
	Chestnut Fm	2025	315	0	Procure more flex in future tender events
	Church Street	2026	200	10	Sufficient flexibility procured
	Clyde Terrace	2025	1000	37	Sufficient flexibility procured
	Codling Road	2026	500	0	Procure more flex in future tender events
	Colthorpe Rd	2026	800	10	Sufficient flexibility procured

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	Constance Cl	2026	500	10	Procure more flex in future tender events
	Cotswold Ave Trans	2025	800	19	Sufficient flexibility procured
	Crawley Close	2026	800	0	Procure more flex in future tender events
	Cromwell Pk	2024	800	37	Procure more flex in future tender events
	Cumberland Avenue 122	2026	800	0	Procure more flex in future tender events
	Cyprus Road	2026	500	12	Sufficient flexibility procured
	Dam Farm	2025	800	0	Procure more flex in future tender events
	Dartford Road	2026	800	10	Sufficient flexibility procured
	Davids Close	2026	200	10	Sufficient flexibility procured
	Dawlish Drive	2026	500	0	Procure more flex in future tender events
	Deep Spinney East	2026	800	10	Sufficient flexibility procured
	Deep Spinney West	2025	1000	42	Procure more flex in future tender events
	Deerleap Way	2026	1315	10	Sufficient flexibility procured
	Denmark Street	2026	1315	0	Procure more flex in future tender events

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	Drake Road Underpass	2026	500	0	Procure more flex in future tender events
	Dunsham Ln	2024	800	10	Procure more flex in future tender events
	Earith Road	2024	800	10	Procure more flex in future tender events
	East St	2025	800	0	Procure more flex in future tender events
	Eastbrook Cemetery	2024	200	14	Sufficient flexibility procured
	Eastwood Drive	2026	500	10	Procure more flex in future tender events
	Eaton Road	2026	500	10	Sufficient flexibility procured
	Egdon Dr	2025	1000	20	Sufficient flexibility procured
	Eighth Avenue	2024	800	0	Procure more flex in future tender events
	Elmcott Egg Fm	2024	200	0	Procure more flex in future tender events
	Fairfield Rd	2026	1315	10	Sufficient flexibility procured
	Farriers Went	2026	1000	26	Sufficient flexibility procured
	Felden Dr	2026	500	10	Sufficient flexibility procured
	Ferndale Rd 16	2026	500	10	Sufficient flexibility procured

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	Forty Row	2024	200	10	Procure more flex in future tender events
	Fox Fm	2024	200	0	Procure more flex in future tender events
	Foxhatch	2026	800	10	Sufficient flexibility procured
	Gainsborough Drive	2025	500	10	Procure more flex in future tender events
	Girton Village	2026	500	0	Procure more flex in future tender events
	Grange Farm	2025	1000	29	Sufficient flexibility procured
	Grange Farm H.e.	2026	800	0	Procure more flex in future tender events
	Gray Road	2025	800	0	Procure more flex in future tender events
	Green	2025	100	0	Procure more flex in future tender events
	Greenhaze Lane	2025	1000	0	Procure more flex in future tender events
	Groveside	2026	500	10	Sufficient flexibility procured
	Hall 1	2025	100	0	Procure more flex in future tender events
	Hall 2	2024	200	0	Procure more flex in future tender events
	Hall Fm.	2025	100	0	Procure more flex in future tender events

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	Hallfield Fm.	2025	315	0	Procure more flex in future tender events
	Hampden Close	2026	500	0	Procure more flex in future tender events
	Hartford Road	2025	1315	43	Procure more flex in future tender events
	Hayling Close	2025	800	14	Procure more flex in future tender events
	Hazelton Rd	2024	800	10	Sufficient flexibility procured
	High Lift Villas	2024	100	0	Procure more flex in future tender events
	Hillside Rd	2024	800	0	Procure more flex in future tender events
	Holly Cl	2025	800	0	Procure more flex in future tender events
	Household Waste Site	2024	200	0	Procure more flex in future tender events
	Housing Sharpenhoe	2024	200	0	Procure more flex in future tender events
	Ilfracombe Crescent	2026	800	10	Procure more flex in future tender events
	Juliet Av Central	2024	315	0	Procure more flex in future tender events
	Keeley Green	2026	500	0	Procure more flex in future tender events
	Keepers Cottage 1	2026	100	10	Sufficient flexibility procured

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	Kesgrave Social Club	2024	315	10	Procure more flex in future tender events
	Kingswood Avenue No 2	2025	500	0	Procure more flex in future tender events
	Kirby Drive	2026	1000	42	Sufficient flexibility procured
	Knights Cl	2024	1000	33	Procure more flex in future tender events
	Langford Road	2026	500	0	Procure more flex in future tender events
	Langham Rd	2026	200	0	Procure more flex in future tender events
	Lantree Crescent	2024	800	14	Procure more flex in future tender events
	Laxton Ave	2026	800	10	Sufficient flexibility procured
	Leavesden Retail	2025	800	22	Sufficient flexibility procured
	Leverington Road	2026	800	0	Procure more flex in future tender events
	Lichfield Road	2024	800	0	Procure more flex in future tender events
	Little Warley Lane	2024	200	0	Procure more flex in future tender events
	Llanover Rd	2024	800	10	Procure more flex in future tender events
	London Rd 1	2025	800	24	Sufficient flexibility procured

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	London Rd 2	2026	500	10	Sufficient flexibility procured
	Longfurlong.	2026	800	14	Procure more flex in future tender events
	Longmire	2025	800	41	Sufficient flexibility procured
	Lords Wood	2026	800	10	Sufficient flexibility procured
	Low St	2024	100	0	Procure more flex in future tender events
	Lower Rd	2024	100	10	Procure more flex in future tender events
	Lufkins Fm	2024	200	0	Procure more flex in future tender events
	Main Street	2025	800	0	Procure more flex in future tender events
	Manor Road Flats	2026	500	0	Procure more flex in future tender events
	Mardyke Farm	2025	1315	27	Procure more flex in future tender events
	Markazi Jamia Mosque	2024	800	0	Procure more flex in future tender events
	Marsh	2024	100	0	Procure more flex in future tender events
	Marsh Farm	2026	100	0	Procure more flex in future tender events
	Meadowside	2026	800	28	Sufficient flexibility procured

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	Meadway	2025	800	35	Sufficient flexibility procured
	Mill Lane	2026	800	20	Sufficient flexibility procured
	Mill Meadow	2025	800	0	Procure more flex in future tender events
	Mill Road	2024	200	20	Sufficient flexibility procured
	Mill Road Barn	2024	100	0	Procure more flex in future tender events
	Mill Street	2026	200	10	Sufficient flexibility procured
	Moore Avenue	2025	800	0	Procure more flex in future tender events
	Mount Bovers Lane	2025	500	0	Procure more flex in future tender events
	Mount Park Rd	2026	800	0	Procure more flex in future tender events
	Mountbatten Way	2026	800	14	Sufficient flexibility procured
	Myddylton Place	2024	800	0	Procure more flex in future tender events
	Newport Way	2024	500	11	Sufficient flexibility procured
	Newsells Stud Farm	2024	100	0	Procure more flex in future tender events
	Nicholas Rd	2026	800	0	Procure more flex in future tender events
	North Hill	2026	315	0	Procure more flex in future tender events

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	Northfield Rd	2026	500	10	Procure more flex in future tender events
	Nottingham Way	2026	800	0	Procure more flex in future tender events
	Nursery Cl	2025	1000	0	Procure more flex in future tender events
	Oak Hill Farm	2024	200	0	Procure more flex in future tender events
	Old Ignation Football Club	2024	200	0	Procure more flex in future tender events
	Orchard Estate	2026	800	10	Sufficient flexibility procured
	Osborne Avenue No 9	2026	800	0	Procure more flex in future tender events
	Ouse Lane	2024	100	0	Procure more flex in future tender events
	Padnal Drove	2026	800	20	Sufficient flexibility procured
	Park & Ride	2024	200	0	Procure more flex in future tender events
	Parklands	2024	800	0	Procure more flex in future tender events
	Parkthorne Dr	2026	1000	29	Sufficient flexibility procured
	Parsonage Ln	2024	800	0	Procure more flex in future tender events
	Parsons Green	2024	315	10	Procure more flex in future tender events
	Peewit Hill	2024	200	10	Procure more flex in future tender events

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	Peters Lane Whiteleaf	2024	200	0	Procure more flex in future tender events
	Peveral Cl	2026	1315	39	Procure more flex in future tender events
	Picasso Pl	2026	2315	42	Procure more flex in future tender events
	Pine Gdns	2026	1315	10	Sufficient flexibility procured
	Prospect Pl (A)	2024	100	0	Procure more flex in future tender events
	Ravendale Way 62	2026	800	20	Sufficient flexibility procured
	Recreation Ground	2025	315	20	Sufficient flexibility procured
	Rectory Lane	2026	315	20	Sufficient flexibility procured
	Redwings	2025	500	0	Procure more flex in future tender events
	Repps	2024	200	10	Procure more flex in future tender events
	Robin Close	2026	1000	20	Sufficient flexibility procured
	Rochford Avenue	2026	800	0	Procure more flex in future tender events
	Rockmill End	2026	800	10	Sufficient flexibility procured
	Rookery Fm (A)	2024	100	0	Procure more flex in future tender events

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	Ropes Walk	2025	500	0	Procure more flex in future tender events
	Rushden Gardens	2026	500	0	Procure more flex in future tender events
	Saxon Way	2025	800	23	Procure more flex in future tender events
	School	2024	315	29	Sufficient flexibility procured
	School Lane	2025	1000	42	Sufficient flexibility procured
	School Lane (A)	2026	315	0	Procure more flex in future tender events
	Sector F	2025	800	28	Sufficient flexibility procured
	Servite House	2024	500	10	Sufficient flexibility procured
	Shaftesbury Road	2026	800	46	Sufficient flexibility procured
	Sheering Rd	2026	500	0	Procure more flex in future tender events
	Sheppards Way	2026	800	10	Sufficient flexibility procured
	Simmons Lane	2026	500	0	Procure more flex in future tender events
	Skippon Way	2026	800	10	Sufficient flexibility procured
	Southwood Rd	2024	800	10	Procure more flex in future tender events

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	Springfield Road	2026	1500	20	Sufficient flexibility procured
	St Andrews Church	2025	200	10	Sufficient flexibility procured
	St Margarets Avenue	2026	1500	10	Sufficient flexibility procured
	St Mary Street	2024	800	0	Procure more flex in future tender events
	Staithe	2024	200	0	Procure more flex in future tender events
	Station Road	2026	500	20	Sufficient flexibility procured
	Stockers Estate	2024	800	0	Procure more flex in future tender events
	Stockton Road	2025	200	0	Procure more flex in future tender events
	Sun Hill Quarry	2026	315	10	Sufficient flexibility procured
	Sutton Road	2024	315	0	Procure more flex in future tender events
	The Hyde	2024	100	0	Procure more flex in future tender events
	The Joint	2026	800	10	Sufficient flexibility procured
	The Oaks	2025	800	32	Sufficient flexibility procured
	The Rookery	2026	500	10	Procure more flex in future tender events

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	The Spike	2026	500	10	Sufficient flexibility procured
	Thetford Road	2024	200	10	Procure more flex in future tender events
	Thornton Rd Flats	2026	800	10	Sufficient flexibility procured
	Tooleys Fm	2024	100	0	Procure more flex in future tender events
	Travellers Site	2024	200	0	Procure more flex in future tender events
	Turpins	2026	500	10	Sufficient flexibility procured
	Valley Farm Offices	2024	200	14	Procure more flex in future tender events
	Vicarage Estate	2026	800	0	Procure more flex in future tender events
	Village 1	2026	200	10	Sufficient flexibility procured
	Village 2	2026	500	10	Sufficient flexibility procured
	Village Hall	2024	200	10	Sufficient flexibility procured
	Vixen Dr	2026	1315	26	Sufficient flexibility procured
	Waggon and Horses	2025	200	0	Procure more flex in future tender events
	Water Ln	2024	800	0	Procure more flex in future tender events

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
EPN	Water Tower Flats	2025	200	0	Procure more flex in future tender events
	Werrington Vill	2026	1500	43	Procure more flex in future tender events
	Wertheim Way East	2026	500	10	Sufficient flexibility procured
	West Dr	2025	500	12	Procure more flex in future tender events
	Wheelers Lane	2024	200	12	Sufficient flexibility procured
	Widmore Drive	2026	1000	14	Procure more flex in future tender events
	Willow Farm	2025	200	10	Sufficient flexibility procured
	Windsor Ave	2026	1000	10	Sufficient flexibility procured
	Wix School	2024	200	0	Procure more flex in future tender events
	Woodlands Rd	2025	1000	0	Procure more flex in future tender events
LPN	Ada St West	2024	800	14	Procure more flex in future tender events
	Almer Road	2024	800	0	Procure more flex in future tender events
	Ann St North	2025	1000	0	Procure more flex in future tender events
	Augustine Rd	2026	1315	11	Sufficient flexibility procured

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
LPN	Bartholomew Rd R/O Kenbrook Hse	2026	2000	27	Sufficient flexibility procured
	Bastable Ave Adj 174	2024	1000	12	Procure more flex in future tender events
	Beehive Lane Adj 130	2026	1315	10	Sufficient flexibility procured
	Bermans Raven Rd	2024	800	0	Procure more flex in future tender events
	Birchdale Rd Sth	2024	1315	56	Procure more flex in future tender events
	Blissett St	2026	1315	27	Sufficient flexibility procured
	Bushey Way	2026	1315	10	Sufficient flexibility procured
	Canon Ave Adj 56	2026	1315	12	Sufficient flexibility procured
	Cheapside 107	2024	1315	0	Procure more flex in future tender events
	Clyde Pl	2026	1315	11	Sufficient flexibility procured
	Cyrus St	2024	1000	14	Procure more flex in future tender events
	Devereux Rd	2024	800	0	Procure more flex in future tender events
	Devonport Gdns 28	2024	1315	53	Procure more flex in future tender events
	Eastern Ave 567	2025	1500	40	Sufficient flexibility procured

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
LPN	Felbrigge Rd Adj 60	2026	1315	12	Sufficient flexibility procured
	Gaysham Ave R/O 3	2026	1000	10	Sufficient flexibility procured
	Glenilla Rd 28a	2024	1315	0	Procure more flex in future tender events
	Gosport Rd Opp 11	2025	1800	26	Sufficient flexibility procured
	Grafton Sq N U S	2024	1000	16	Procure more flex in future tender events
	Gravel Rd	2026	1315	0	Procure more flex in future tender events
	Green Lane Penge	2026	1315	10	Sufficient flexibility procured
	Hillside Ave	2024	100	0	Procure more flex in future tender events
	Huddlestone Rd	2024	1315	0	Procure more flex in future tender events
	Ironmonger Lane 11	2024	800	0	Procure more flex in future tender events
	Ivy Road	2025	1000	0	Procure more flex in future tender events
	James Ave 19	2026	1315	10	Sufficient flexibility procured
	Leighton Rd R/O Kennistown Hse	2025	1315	10	Procure more flex in future tender events
	Monega Rd Grays	2026	1800	36	Sufficient flexibility procured

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
LPN	New Change 1 Anchor East	2024	1000	14	Procure more flex in future tender events
	Oakfield Rd	2026	1315	10	Sufficient flexibility procured
	Oaklands Rd	2026	1315	0	Procure more flex in future tender events
	Parkside Rd.	2024	1800	0	Procure more flex in future tender events
	Poplars Rd	2024	1000	30	Procure more flex in future tender events
	Prince Regent Ln 221a	2026	1315	31	Sufficient flexibility procured
	Railton Rd Adj 2	2026	1500	10	Sufficient flexibility procured
	Shirland Rd 41	2025	1500	0	Procure more flex in future tender events
	Springfield Rd Crowland Hse	2024	1315	22	Procure more flex in future tender events
	Swedenborg Sq Stockholm Hse	2026	1000	14	Procure more flex in future tender events
	Tavistock Gdns Adj 47	2024	1315	85	Sufficient flexibility procured
	Temple Hill Sq	2024	1315	23	Procure more flex in future tender events
	The Chase No 84	2024	1000	16	Procure more flex in future tender events
	Turpins Lane	2026	1000	10	Sufficient flexibility procured

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
LPN	Twyford Abbey Rd	2026	1000	10	Sufficient flexibility procured
	Vicarage Road West 1	2024	800	28	Sufficient flexibility procured
	Vicarage Road West 2	2024	800	42	Sufficient flexibility procured
	Warner Road	2026	1315	0	Procure more flex in future tender events
	Waterloo Passage	2024	1315	0	Procure more flex in future tender events
	Westwood Rd 114	2024	1315	56	Sufficient flexibility procured
	York Rise R/O 35	2026	1315	10	Sufficient flexibility procured
SPN	Anlaby Road	2024	1500	64	Sufficient flexibility procured
	Beechwood	2024	100	10	Sufficient flexibility procured
	Blunden Lane	2026	500	10	Sufficient flexibility procured
	Bockell Farm	2024	200	0	Procure more flex in future tender events
	Calor Gas Old Station Yard	2024	200	0	Procure more flex in future tender events
	Cambridge Road	2024	1315	55	Procure more flex in future tender events
	Canterbury Road West Blean	2024	200	0	Procure more flex in future tender events

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
SPN	Cedar Lodge	2024	200	0	Procure more flex in future tender events
	Chestnut Way	2025	800	52	Sufficient flexibility procured
	Chilham Road	2024	1315	49	Procure more flex in future tender events
	Church Farm School	2024	1000	0	Procure more flex in future tender events
	Cleveland Road	2026	1315	19	Sufficient flexibility procured
	Connaught Hotel	2024	500	10	Procure more flex in future tender events
	Crown Road	2026	1315	10	Sufficient flexibility procured
	Ewhurst Road	2024	500	10	Procure more flex in future tender events
	Furzefield Ave	2026	500	0	Procure more flex in future tender events
	Galleypot Street	2025	200	0	Procure more flex in future tender events
	Gibbet Oak Farm	2024	200	0	Procure more flex in future tender events
	Glassenbury	2024	200	0	Procure more flex in future tender events
	Greystones	2025	1000	13	Sufficient flexibility procured
	Guileshill Farm	2024	200	0	Procure more flex in future tender events

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
SPN	Harmans Corner	2026	800	10	Sufficient flexibility procured
	Highlands Inn	2024	315	10	Procure more flex in future tender events
	Horton	2026	1315	29	Sufficient flexibility procured
	Hurst Close	2025	500	16	Sufficient flexibility procured
	Keepers Cottage 2	2024	200	11	Procure more flex in future tender events
	Kings Barn Lane West	2026	1000	11	Sufficient flexibility procured
	Kingsnorth	2024	100	0	Procure more flex in future tender events
	Leyhurst Farm	2024	200	0	Procure more flex in future tender events
	Lister Road	2025	800	28	Sufficient flexibility procured
	Lock Barn Micro	2024	315	0	Procure more flex in future tender events
	Lock House	2024	200	0	Procure more flex in future tender events
	Maidstone Road	2025	800	20	Sufficient flexibility procured
	Malthouse Close	2025	500	12	Sufficient flexibility procured
	Meadow Rise	2026	1000	38	Sufficient flexibility procured

Area	Substation Name	Constraint year	Deferred Transformer size (kVA)	TR9 flex capacity awarded (kW)	DNOA Result
SPN	Merton Walk	2024	1000	29	Procure more flex in future tender events
	Middleton Farm	2026	100	0	Procure more flex in future tender events
	Milestone Cottage	2024	100	0	Procure more flex in future tender events
	Moat Cottages	2024	200	0	Procure more flex in future tender events
	Northbourne Street	2026	200	0	Procure more flex in future tender events
	Nutfield Priory Micro	2024	200	14	Sufficient flexibility procured
	Orchard Heights	2024	1000	58	Procure more flex in future tender events
	Pallingham Drive	2026	800	0	Procure more flex in future tender events
	Port Avenue	2026	800	10	Sufficient flexibility procured
	Primary School	2025	800	16	Sufficient flexibility procured
	Rainham School Canteen	2024	1000	50	Procure more flex in future tender events
	Riverside House	2024	200	0	Procure more flex in future tender events
	Rochester Crescent	2025	1000	42	Procure more flex in future tender events
	Rushmore Hill	2025	500	10	Procure more flex in future tender events

CHAPTER 05

Definitions and acronyms

DISTRIBUTION SYSTEM OPERATOR

UK Power Networks
Delivering your electricity

CHAPTER 05

Definitions and acronyms

Term	Definition
CT	Consumer Transformation
DNO	Distribution Network Operator
DNOA	Distribution Network Options Assessment
DSO	Distribution System Operator
EHV	Extra High Voltage
EPN	Eastern Power Networks
ESO / NGESO	Electricity System Operator / National Grid Electricity System Operator
ETO	Electricity Transmission Owner
GB	Great Britain
GIS	Gas Insulated Switchgear

Term	Definition
GSP	Global Supply Point
HV	High Voltage
LA	Local Authority
LAEP	Local Area Energy Planning
LPN	London Power Networks
LV	Low Voltage
SPN	Southeastern Power Networks
SSEN	Scottish and Southern Electricity Networks
UKPN	UK Power Networks
WACC	Weighted Average Cost of Capital