

SSEN DISTRIBUTION

# SEPD Network Development Report

May 2022



**Scottish & Southern**  
Electricity Networks

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## 1 Introduction

This is Scottish and Southern Electricity Networks (SSEN) Distribution's first Network Development Report and is part of a suite of new information that sets out our longer-term Network Development Plans for our distribution networks. It gives users access to information pertaining to our network plans for the next ten years in relation to our 11 kV networks and above, allowing all interested parties to better assess and identify the future opportunities to use and engage with us and the network. Specifically, it includes:

- a) A description of those parts of our distribution network that are most suited to new connections and distribution of further quantities of electricity;
- b) A description of those parts of our network where reinforcement may be required to connect new capacity and new loads;
- c) Information that supports the secure and efficient operation, coordination, development and interoperability of the interconnected system; and
- d) Flexibility or Energy Efficiency Services that we reasonably expect to need as an alternative to reinforcement.

This Report and our wider Network Development Plan build on existing publications, including our Long-Term Development Statements and Flexibility Services publications, which provide information on our nearer-term opportunities and our key focus areas as we continue to develop and improve our network to meet the changing needs and requirements of all stakeholders. These supporting documents can be found in the following links.

- a) [Long term development statements \(LTDS\) - SSEN](#)
- b) [Flexible Solutions - SSEN](#)

Whilst this Report relates to our distribution network in southern England (Southern Electric Power Distribution plc, or SEPD), please note that an equivalent Report is also available for our distribution network in the north of Scotland (Scottish Hydro Electric Power Distribution plc (SHEPD), this document can be found in the following link [Network Capacity Information - SSEN](#).

To aid users of this Report, we have worked with all Distribution Network Operators (DNOs) across GB to ensure consistency in reporting. This was achieved through the Energy Networks Association (ENA) and the development of a Form of Statement of Network Development Plans<sup>1</sup> through the ENA's Open Networks workstream 1B. As a result of this work, the Network Development Plan is split into 3 distinct reports, as illustrated in Figure 1; the red box highlights the part this document – the Network Development Report – represents.

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<sup>1</sup> [ENA NDP Form of Statement Template and Process \(22 Dec 2021\)](#)

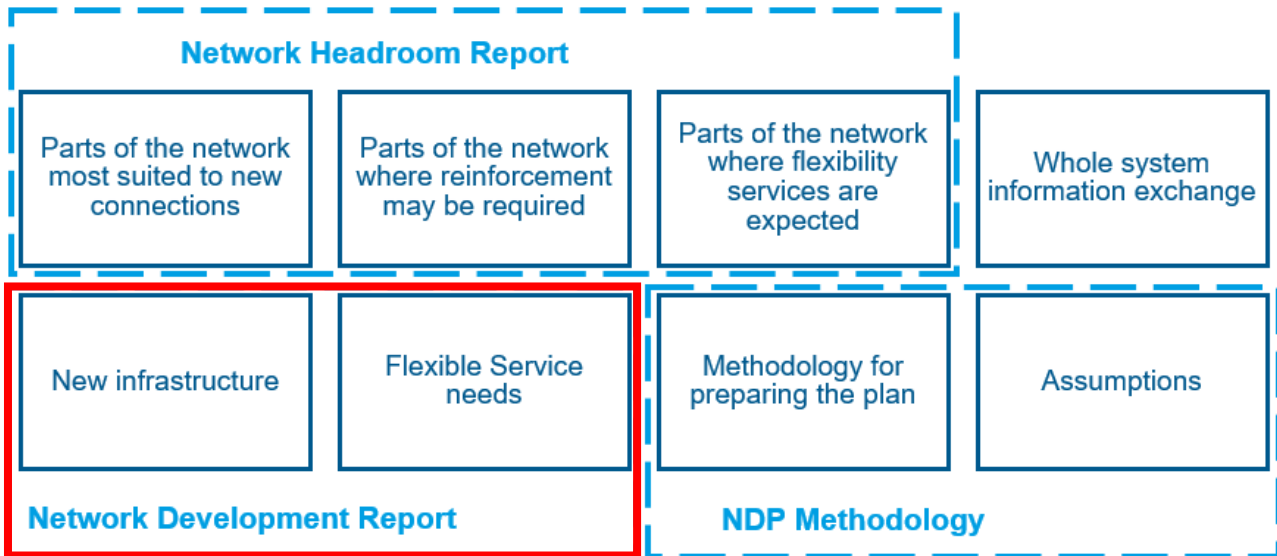


Figure 1 - NDP Reporting Structure

### 1.1 Network Development Report (NDR) Purpose

The NDR provides a comprehensive view of our network, bringing together our plans for the next price control period (RIIO-ED2, which runs from 2023-2028) and other key publications that set out the likely use and development of our network and the opportunities that this may present.

Using latest available energy scenarios at the time of publication and our RIIO-ED2 investment plans submitted to Ofgem in December 2021, the NDR sets out our proposed investments and likely areas for service requirements going forward. Together with the NDP Methodology, it also sets out the wider information used to inform this Report, which users of our network can call upon to inform their own plans and activities. Further, the information herein informs our Network Headroom Report (NHR), which indicates potential investment opportunities for flexibility services and new connections at a granular level across our network, and allows interested parties to clearly correlate proposed areas of investment with changes in network headroom capacity.

The NDR provides a list of high-level plans for network interventions and flexibility service requirements:

- For the years 5-10
- Location of the intervention
- Requirements for flexibility services or increasing existing asset capacity
- When the works are forecast for delivery

The purpose of the overall Network Development Plan (NDP), which the NDR forms part of, is to provide the following information:

- Future investments that release capacity on the network
- Highlight areas where investment may be required
- Increase visibility of current and future capacity constraints
- Illustrate areas where there is sufficient capacity to connect generation or demand

This information is to help aid decision making in the long-term and the proposed audience for this report may include industry stakeholders, developers, demand and generation customers connecting beyond the short-

term future, regional stakeholders, including Local Authorities looking to understand infrastructure needs to support long term decarbonisation, and innovators wanting to understand network issues to be resolved.

By linking short to long term plans, our NDP:

- provides better information, enabling developers to identify network areas that best meet their needs;
- supports and encourages flexibility markets to help manage constrained areas of the network; and
- assists local authorities to understand their associated network constraints as part of their policy decisions to drive investment in their local area.



## 2 Aligning Our Publications

SSEN Distribution's NDP is informed and supplemented by multiple data sources that are publicly available.

This section provides a high-level overview of these documents and provides the reader with an understanding of how each document can be used to provide a view of the network from today through to 2050.

### 2.1 Heat Maps (short term view)

SSEN Distribution regularly updates and publishes network Heat Maps for both Generation and Demand on its website<sup>2</sup>. The purpose of the Heat Maps is to highlight areas of the network, through colour codes, that have available capacity (green), areas that have limited capacity (amber) and areas where there is no capacity (red). As a result, these Heat Maps can help inform larger-scale developments of potential areas of our network where connection without triggering significant reinforcement is most likely. The view presented via our Heat Maps is based on our connected and contracted background.

Please note that this view is subject to continual change as new connection offers are accepted and other connection agreements are cancelled. Further, the Heat Maps do not utilise future energy scenarios or consider small scale developments such as low carbon technologies. Notwithstanding this, these maps provide a good indicator of headroom capacity.

### 2.2 Long-Term Development Statement (0 – 5 year view)

The purpose of the Long-Term Development Statement (LTDS)<sup>3</sup> is to provide information for anyone connecting to our EHV (132kV, 66kV, 33kV and 22kV) distribution system including the HV (11kV and 6.6kV) busbar of primary substations. It is designed to help parties that might wish to use or connect to our system to identify and evaluate their opportunities for doing so. Our statements include the following:

- Network data;
- The likely development of our distribution system;
- Our plans for modifying our distribution system; and
- Identification of parts of our distribution system that are likely to reach their capacity limit in 0 – 5 years.

As part of our forecasts, particularly for the Network Headroom Report (NHR), the investments proposed in the latest LTDS for the short-term period of 0 – 5 years prior to publication of the NHR are reflected in the outputs of the NHR.

The LTDS is published annually in November and updated every May to reflect the latest peak demands. For the purposes of the NDP, we will align investments and demands to the latest LTDS. This means that the LTDS released in the November prior to the NDP publication will be used.

### 2.3 Distribution Future Energy Scenarios (DFES) (now – 2050 scenario view)

SSEN DFES<sup>4</sup> analysis produces granular scenario projections for the increase (or reduction) in electricity distribution network connected capacity of electricity generation, storage & low carbon demand technologies.

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<sup>2</sup> [SSEN Heatmaps](#)

<sup>3</sup> [Long term development statements \(LTDS\) - SSEN](#)

<sup>4</sup> [SEPD Distribution Future Energy Scenarios 2021 – Results & Methodology Report \(Published 04 March 2022\)](#)

As a framework, the DFES uses a set of four national energy scenarios based on the Electricity System Operator's (ESO) latest Future Energy Scenarios (ESO FES) publication, each driven by different societal change and speed of decarbonisation. These are known as: Steady Progression (SP), Consumer Transformation (CT), System Transformation (ST) and Leading the Way (LW).

The DFES projections then draw upon input from local and regional stakeholders, including local authorities, regional growth factors and a detailed analysis of the pipeline of projects and developments within SSEN Distribution's licence areas. SSEN Distribution's DFES analysis includes, for example, projections for new housing growth and new commercial and industrial developments. As a result, the DFES provides a more granular and "bottom-up" assessment of the impact of changes to the energy system and the transition to net zero.

When developing scenario projections for a broad range of technologies and sources of demand, a number of uncertainties influence the assumptions that are made and the projection outcomes. This uncertainty can range by technology and over time.

In the near-term, DFES projections are heavily based upon the analysis of known pipeline projects and new developments. Projects are researched using SSEN Distribution's connection database, national and local planning portals, Capacity Market auction registers and through direct discussions with project developers, sector representatives and other stakeholders.

Over the medium and longer-term, projections tend to reflect the underlying scenario assumptions defined for each technology. This is also augmented by levels of certainty provided by, for example, regional and national policies. Some of the uncertainties in the DFES analysis include:

- The range of different outcomes assumed across the FES 2021 scenarios themselves;
- National government, devolved government, regional and local policy uncertainty;
- Commercial and financial uncertainty;
- Technology development and capability uncertainty;
- Consumer adoption and behaviour uncertainty;
- Local spatial distribution factors;
- Transmission vs distribution network connection uncertainty.

As discussed above, DFES scenario projections represent a range of potential outcomes. However, by completing annual reviews of the DFES, and through extensive stakeholder engagement, energy networks can build up a picture of how energy consumption, generation, and the uptake of new low carbon technologies is changing as the UK transitions to a net zero energy system. Figure 2 below demonstrates the scenarios and what specifically drives them:



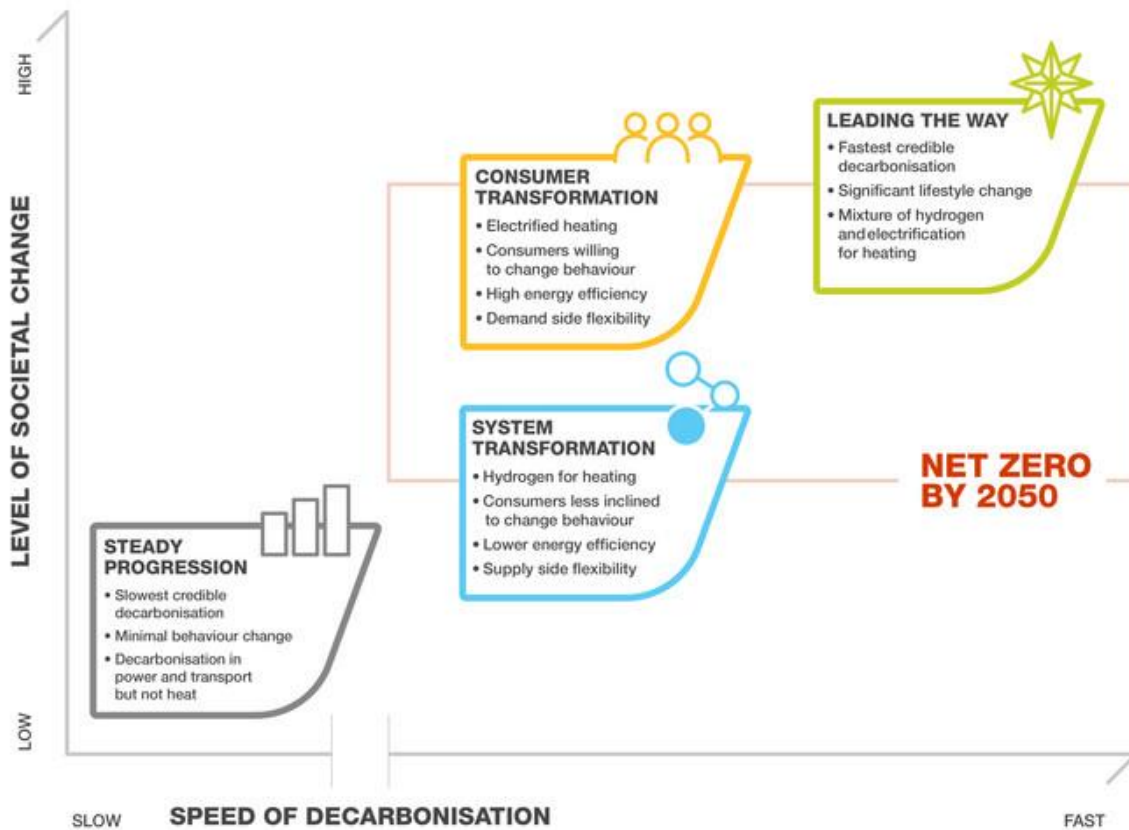


Figure 2 - National Grid ESO Future Energy Scenarios<sup>5</sup>

For the purposes of the NDP, we provide the forecast for all scenarios represented in Figure 2 within our NHR. When reading the NHR the following acronyms are used:

Table 1: DFES Acronyms Used in NHR

Scenario	Acronym
Steady Progression	SP
Consumer Transformation	CT
System Transformation	ST
Leading the Way	LW

SSEN Distribution regards the CT scenario as the current “best view” and most likely scenario outcome.

## 2.4 RIIO-ED2 Business Plan

In December 2021, we submitted our RIIO-ED2 Business Plan to Ofgem, which proposed investment across SEPD from 1 April 2023 to 31 March 2028. As part of our ambitious plan, we proposed investments that will release capacity in specific areas of our network where constraints have been identified. This release of capacity may be through flexibility service providers offsetting the peak demand or generation, or through conventional reinforcement. Appendices 1 and 2 detail the schemes that we are proposing to target throughout the RIIO-ED2 period. These investments, and the capacity released or management of the constraint, are reflected in the NHR.

<sup>5</sup> [Future Energy Scenarios 2021 | National Grid ESO](#)

It should be noted that the schemes proposed in our RIIO-ED2 Business Plan are subject to Ofgem approval and may therefore be subject to change. As such, it is important that the NHR is read in conjunction with this report and that users understand the interplay between the two. For example, should any of the proposed RIIO-ED2 reinforcement schemes in Appendices 2 and 3 be avoided or deferred through the procurement of flexibility (or vice versa), this could have an impact on the NHR. Similarly, readers should not assume that projects listed in Appendices 2 and 3 cannot be delivered through the procurement of flexibility services. The information contained within the Appendices is our best view based on the information available at the time. All proposed works will be fully assessed and tendered for nearer the time.

## 2.5 Long Term Investments (2029 – 2032)

Our NDP, through the NDR and NHR, presents our best view and three alternative scenarios of network capacity across our distribution system for the forthcoming 10-year period and beyond. It draws upon our plans for the RIIO-ED2 Price Control period (2023-2028) and other key publications to present a coordinated and comprehensive long-term view of network capacity across our network at a relatively granular level.

Clearly, further out, the level of uncertainty increases. We are still in the process of agreeing our plans with Ofgem for the RIIO-ED2 Price Control period and, for the period between 2029 – 2032, this will be agreed as part of the RIIO-ED3 Price Control process. As such, the constraints identified within the NHR during the period 2029 – 2032 will be monitored as part of our future investment plans and will be submitted to Ofgem under the next Price Control process. Notwithstanding this, interested parties can use our NHR to identify potential areas of spare or constrained capacity on our network to inform their plans and activities.

To make it clear where there is available capacity and where there is the potential for future constraints, our NHR highlights available capacity in GREEN and constraints in RED. This helps to clearly signpost the areas on our network where opportunities may exist going forward.

## 2.6 Data

The information presented within the NDP is accurate at the point of publication. Future forecasts under the DFES may differ over time as a consequence of government policy, a change in consumer habits and changes to generation portfolio through new connections, etc. In addition, our proposed investments may change because of changing forecasts and agreed allowances as set by Ofgem as part of each Distribution Price Control period.

### 3 Investment Decision Process

#### 3.1 Flexibility Commitment

SSEN Distribution is committed to ensuring that any load-related investment considers procurement of flexibility services. Procuring flexibility services is a smart way to manage network capacity, allowing us to delay or avoid investment decisions to reinforce the network to meet demand, and reducing the risk of long-life stranded assets. Flexibility also enables us to improve the efficiency of the existing network through increased levels of utilisation.

##### 3.1.1 Flexibility Service Contract Options

As part of our flexibility first approach, which means that, where possible, we seek to grow capacity through the use of flexibility services before investing in network reinforcement, SSEN Distribution actively procures flexibility services across four different flexibility service contracts, as detailed below.

Table 2: Flexibility Service Contracts

Service	Description
<b>Sustain</b>	The Network Operator procures, ahead of time, a pre-agreed change in input or output over a defined time period to prevent a network going beyond its firm capacity.
<b>Secure</b>	Network Operator procures, ahead of time, the ability to access a pre-agreed change in Service Provider input or output based on network conditions close to real-time.
<b>Dynamic</b>	The Network Operator procures, ahead of time, the ability of a Service Provider to deliver an agreed change in output following a network abnormality.
<b>Restore</b>	Following a loss of supply, the Network Operator instructs a provider to either remain off supply, or to reconnect with lower demand, or to reconnect and supply generation to support increased and faster load restoration under depleted network conditions.

Appendix 1 highlights where we are proposing to procure flexibility services and the type of services required.

#### 3.2 Our Best View Scenario

SSEN Distribution's best view of the Future Energy Scenarios is the Consumer Transformation (CT) scenario, which offers a baseline scenario that enables us to drive near-term investment decisions and planning. In this scenario, the capacity requirement is driven by a rapid uptake of LCT with relatively high demand growth in the next 5 – 10 years.

SSEN Distribution will continue to contract flexibility services to capture significant option value if a low demand growth scenario outturns rather than CT. This strategy will allow for the rapid deployment of flexibility services, irrespective of which scenario outturns in future years.

#### 3.3 Proposed ED2 Investments

As agreed with all DNOs, we use Ofgem's Cost Benefit Analysis tool to assess conventional reinforcement and we use the Common Evaluation Methodology, developed through the ENA's Open Networks Project, to determine the most viable flexibility service options. Using these tools, we can establish the most cost-effective solution to alleviate constraints on our network.

Our RIIO-ED2 Business Plan has used this agreed approach to provisionally assess viable options for flexibility services and conventional reinforcement. The list of proposed investments put forward in our RIIO-ED2 Business Plan, as submitted to Ofgem in December 2021, is set out in Appendix A. It is important to note that, at this stage, the information provided in Appendix A is an indicative list based on best available information at the time of our Business Plan submission. It is not based on actual tender information for that specific project. As such, projects provisionally allocated within Appendix A (i.e. reinforcement) may be delivered through the procurement of flexible services, and vice versa. These opportunities will be fully assessed and any opportunities to tender published in due course.

As such, in addition to the information contained within our NDP, we would encourage interested parties to consult our Flexibility Services Procurement Statement<sup>6</sup>. This sets out our process for engagement on flexibility services and current opportunities within our network.

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<sup>6</sup> [Flexibility Services Procurement Statement](#)

## 4 NDP Consultation

On 28 March 2022, we released our public consultation on our NDP and all associated documents. The consultation was open for a period of 28 days, ending on 24 April 2022. The aim of the consultation was to engage with stakeholders, developers, local authorities, and generators to understand how the NDP would be used by them and providing an opportunity to offer feedback on what improvements they would like to see. As part of the consultation, we uploaded all relevant documents to our website and included links for third parties to respond to the consultation.

We have also contacted more than 150 delegates that have been actively involved in our stakeholder engagement events held over the last 2 years. As part of our correspondence, we offered the opportunity for one to one engagement with stakeholders, and we released our consultation information via LinkedIn to actively encourage interested parties that may not have been on our delegates list, to provide valuable feedback to us.

Our approach aimed to increase awareness of the NDP and how it fits in to the information that third parties can access and use to help inform their investment decisions. We asked stakeholders the following set of questions:

1. To help us understand how to help you, could you outline how you plan to use the information contained in this plan.
2. Does the Network Development Plan provide the information you need to understand our development plans for the network out to 2032/33? If not, what future improvements could be made?
3. Is the methodology and assumptions used to prepare this plan clear? If not, have you any feedback for future iterations?
4. Is the proposed format for the Network Headroom Report clear? Can you easily identify areas where there is capacity and where there are constraints?

The feedback that SEPD received can be found in [Appendix B](#), along with our acknowledgement and response to this valuable feedback.

We will continue to engage with third parties to make them aware of the NDP and continue to seek stakeholder feedback prior to any major revision of the NDP, which is scheduled to take place every 2 years.

## 5 Getting in Touch

Although the NDP provides a view of the future in terms of our investments and potential network constraints, we would encourage any party using this information in their decision-making process to engage with us ahead of making an application to connect or offer flexibility services.

The following table sets out the key e-mail addresses, phone numbers and websites that can support you with your decision making:

Table 3: Key Contacts Information

Type of Enquiry	E-mail	Telephone	website
Flexibility Services	<a href="mailto:FlexibleServices@sse.com">FlexibleServices@sse.com</a>	N/A	<a href="#">Flexible Solutions</a>
Load Connections	<a href="mailto:connections@sse.com">connections@sse.com</a>	0800 0483516	<a href="#">New Supplies</a> <a href="#">Existing Supplies</a>
Generation Connections (>50kW)	<a href="mailto:mcc@sse.com">mcc@sse.com</a>	0345 0724319	<a href="#">Generation Connections</a>
Generation Connections (<50kW)	<a href="mailto:south.microgen@sse.com">south.microgen@sse.com</a>	0345 0724319	<a href="#">Generation Connections</a>

Further, if you have any feedback on this NDR, or any aspect of the NDP, which we can use to improve future publications, we would like to hear from you. Please get in touch through the following address [stakeholder.engagement@sse.com](mailto:stakeholder.engagement@sse.com). Please state “Network Development Plan Feedback” in the subject title.



# NETWORK DEVELOPMENT REPORT SEPD PROJECTS (2023 – 2028)





## Appendix A - Our Proposed Investments (2023 – 2028)

As agreed with all DNOs, we use Ofgem’s Cost Benefit Analysis tool to assess conventional reinforcement and we use the Common Evaluation Methodology, developed through the ENA’s Open Networks Project, to determine the most viable flexibility service options. Using these tools, we can establish the most cost-effective solution to alleviate constraints on our network.

This Appendix provides the reader with further detail regarding our proposed future investments on the network to ensure that the network remains within our asset’s capabilities. As discussed within the NDR, we are proposing a mix of flexible and conventional reinforcement projects.

### A1.1 Understanding our Proposed Investments

As part of the investment proposals, we are making it clear what the proposed solution is for each intervention.

To give the reader an appreciation of the area of work geographically and highlight the bounds of the network area where the investments are taking place, we are providing Grid Supply Point (GSP) maps in the format shown in figure 3 below. Please note, GSPs are owned by National Grid, not SEPD. All investments proposed are on the distribution network only.

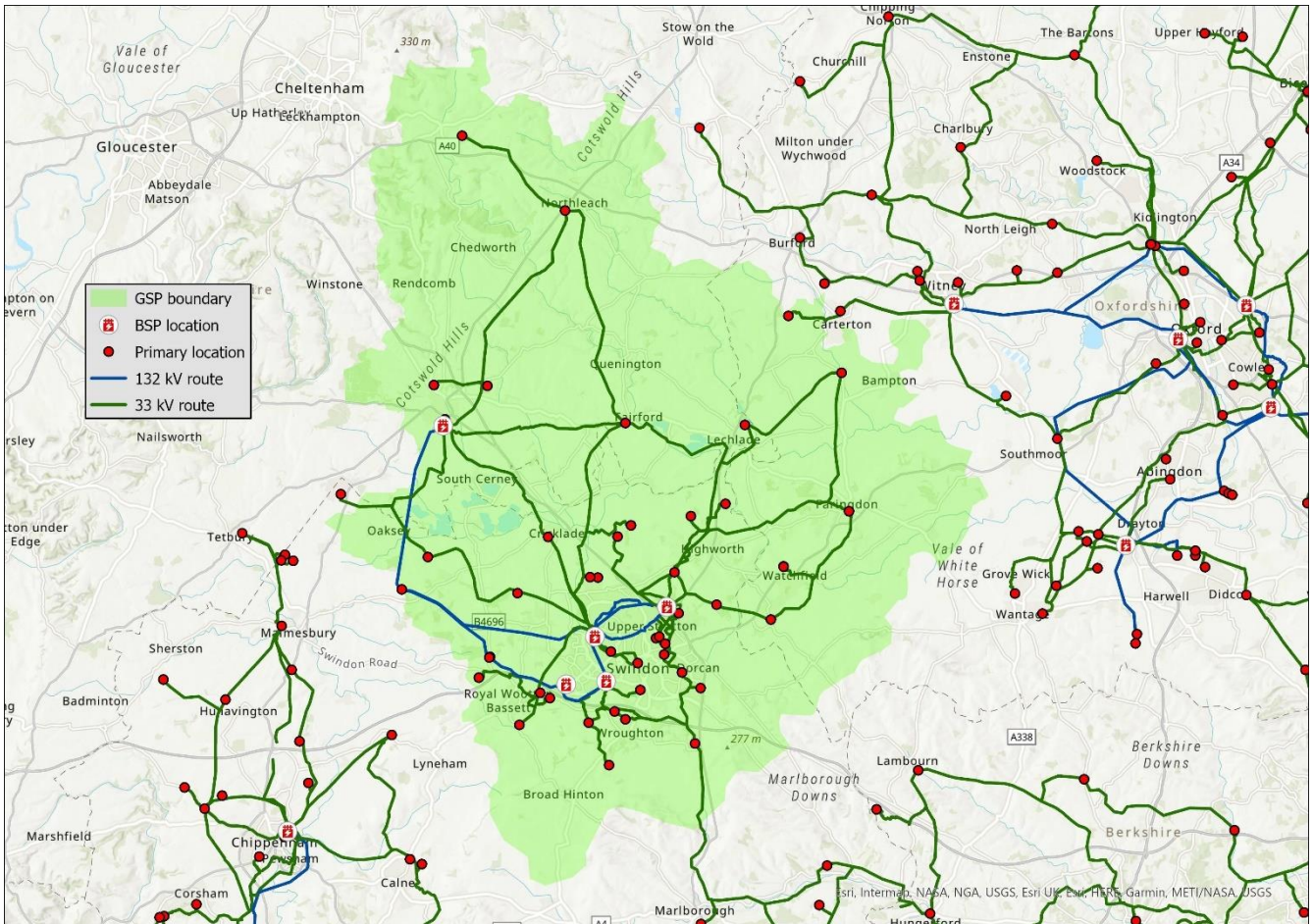





Figure 3 - GSP Boundary Map & Associated Key





Table 4 below provides the reader with information relating to the symbols used for proposed investments and a description of what their intended investment entails.

Table 4: Flexible Service Contracts

Symbol	Definition	Description
	Flexible Solutions	This signals where we are proposing to utilise flexibility services to manage and/or alleviate a forecasted constraint on the network
	Reinforcement (Asset Reinforcement)	This signals where we are proposing to reinforce existing assets with assets with greater thermal capability to ensure that the network can support the forecasted growth in demand & generation
	Reinforcement (New Assets)	This signals where we are proposing to install additional assets to increase thermal capacity to ensure that the network can support the forecasted growth in demand & generation

As part of the Investment proposals highlighted within this appendix, we also confirm the driver for the investment. Table 5 below confirms the drivers and a description with respect to what triggers the need for us to invest.

Table 5: Flexible Service Contracts

Drivers	Description
Thermal	Our asset's thermal capability is forecast to be exceeded
Fault Level	Our asset's fault level capability is not exceeded based on our forecast
Asset Health	Our asset's condition has been assessed as being poor and in need of intervention

Within this report we are only reporting asset health interventions where the reinforcement will increase capacity at a Primary substation or Bulk Supply Point (BSP).

## A1.2 Flexibility Service Solutions

In this section we provide information on the substations that have been identified as potential opportunities for flexibility services due to their loading within the ED2 period (2023-28). These are identified using the symbols as defined above.



The information includes the service requirement, the anticipated year that we would go to market and the number of years the service is forecasted to be required. Further information is provided through our Flexibility Services Statement, which is an annual statement published on our website every April that sets out our Flexibility Service requirements for the forthcoming year, and the following SSEN Distribution web pages:

[Flexible Service Calls](#)  
[Flexible Power](#)

#### A1.3 Reinforcement – Individual Substation Upgrades During ED2 Period (2023 – 2028)

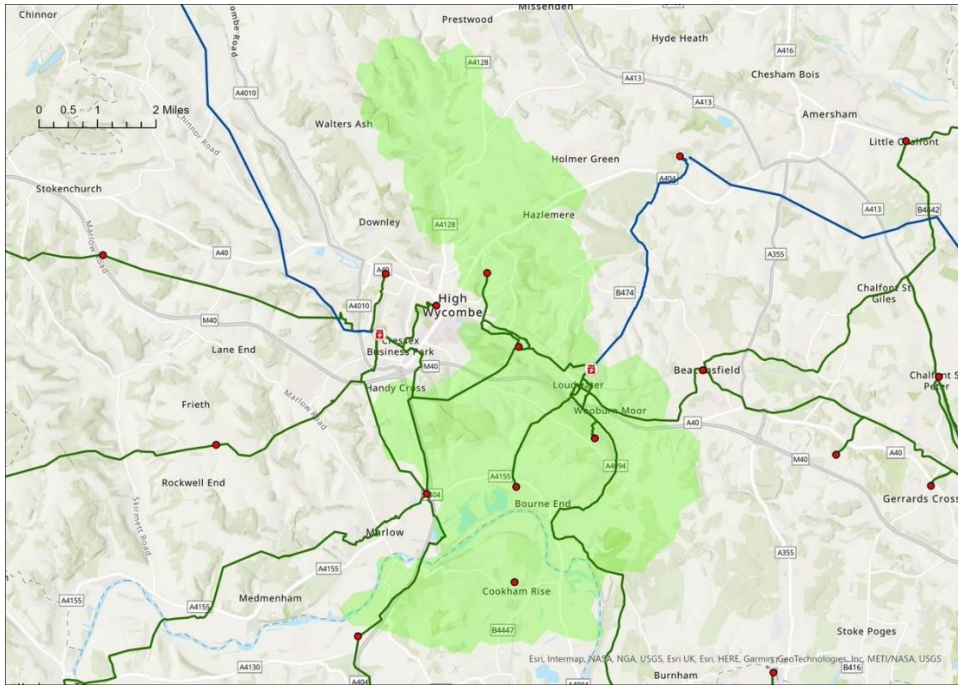
This section provides information on individual substations that have planned reinforcement works associated with them due to their loading within the ED2 period (2023-28). The information includes the capacity to be released as well as the forecasted reinforcement completion date and this is reflected in the NHR. Please note that whilst these have been provisionally assessed as reinforcement projects, it does not preclude the management of these constraints through flexibility services.

#### A1.4 Reinforcement – Circuit Upgrades During ED2 Period (2023 – 2028)

This section provides information on the substation groups that have planned reinforcement works associated with them due to their loading within the ED2 period (2023-28) and the forecast capacity change is reflected in the NHR regarding upstream headroom capacity. Please note that whilst these have been provisionally assessed as reinforcement projects, it does not preclude the management of these constraints through flexibility services.



## Amersham GSP




### Amersham GSP

This GSP supplies the following BSPs

- Loudwater

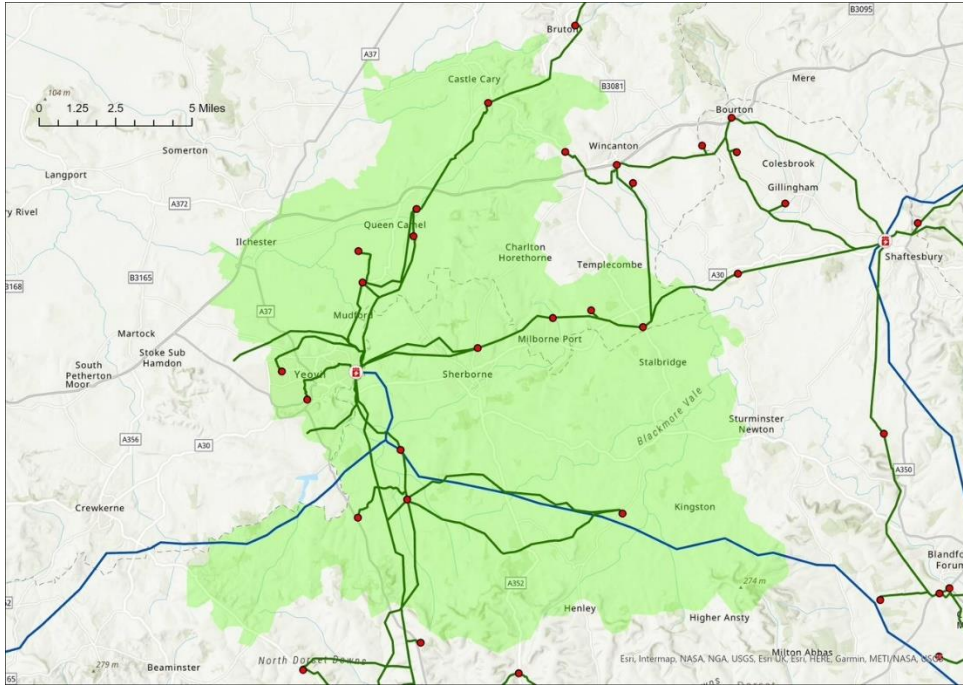
Amersham GSP is located within the Thames Valley region of the SEPD licence area and currently supplies more than 35,400 customers.

Table 6: Investments on the Amersham GSP Network

Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Loudwater BSP	Thermal		Install a new 90MVA 132kV Transformer, associated switchgear and 7km of 132kV underground cable	Not currently proposed but will be subject to further assessment	117MVA 2026



## Axminster GSP





### Axminster GSP

This GSP supplies the following BSPs

-Yeovil

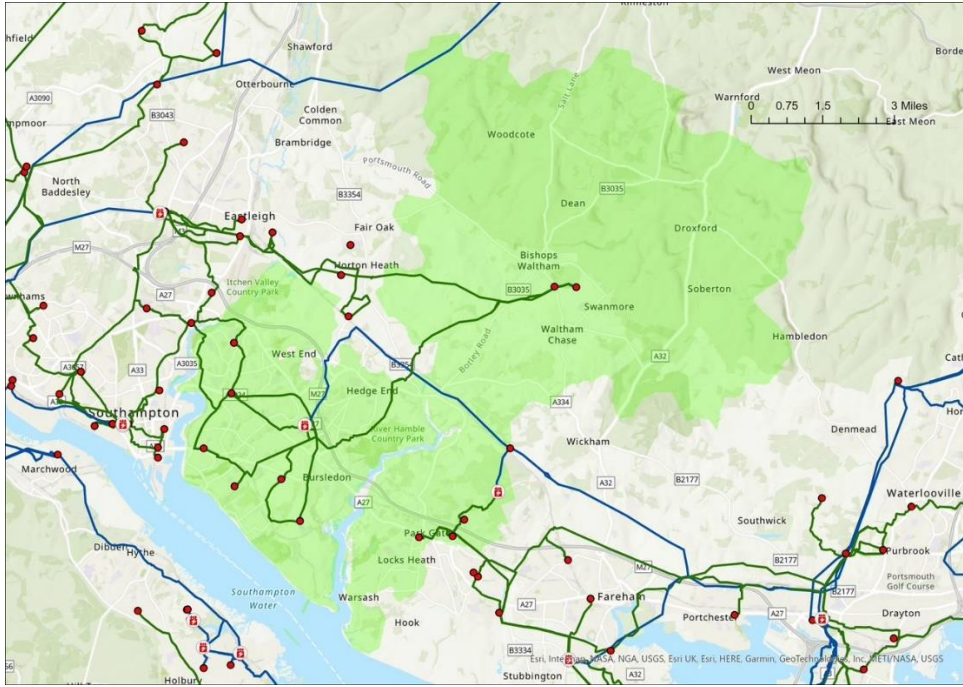
Axminster GSP is located within the Wessex region of the SEPD licence area and currently supplies more than 47,400 customers.

Table 7: Investments on the Axminster GSP Network

Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Yetminster Primary Substation	Thermal		Use flexibility solution for one year and then reinforce 0.42km of underground cable and 6.9km of overhead line	Sustain 0.1MVA 2024	11.6MVA 2025
Yeovil BSP	Thermal		Use flexibility solution for two years and then reinforce 1.48km of 132kV cable	Sustain 1.0 – 4.4 MVA 2024 - 2025	11MVA 2026



## Botley Wood GSP




### Botley Wood GSP

This GSP supplies the following BSPs

- Netley Common
- Botley Wood

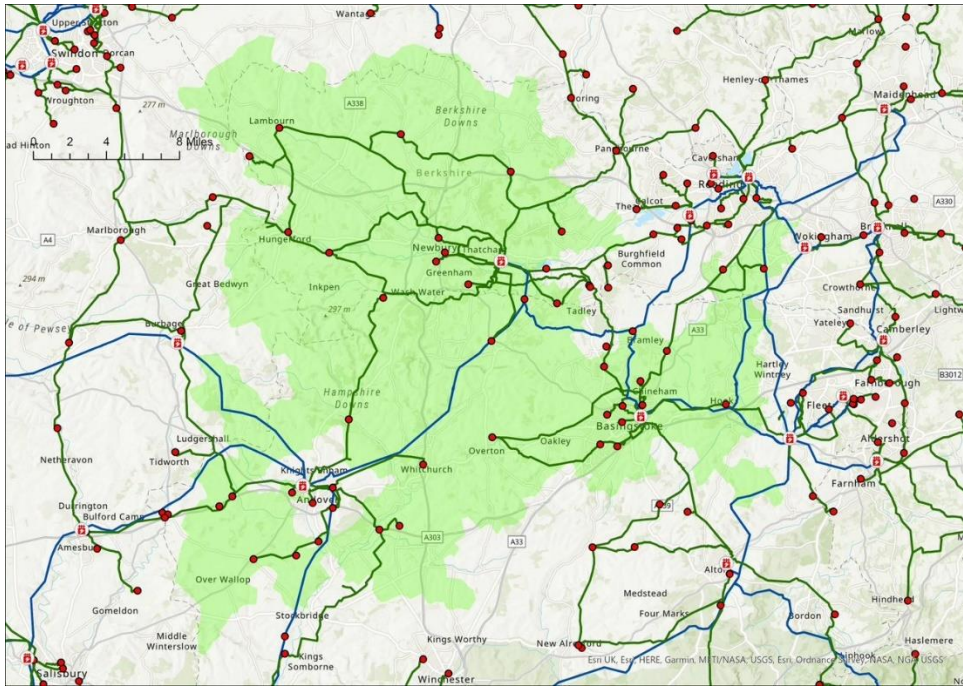
Botley Wood GSP is located within the Southeast region of the SEPD licence area and currently supplies more than 88,700 customers.

Table 8: Investments on the Botley Wood GSP Network

Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Netley Common BSP	Thermal		Use flexibility solution for 1 year and then install a new 132/33kV transformer with associated 132 kV and associated switchgear	Sustain 0 - 0.1MVA 2025	61MVA 2026



## Bramley GSP





### Bramley GSP

This GSP supplies the following BSPs

- Amesbury
- Basingstoke
- Burghfield
- Thatcham

Bramley GSP is located within the Southeast region of the SEPD licence area and currently supplies more than 251,700 customers.

Table 9: Investments on the Bramley GSP Network

Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Bramley - Thatcham - Andover 132 kV	Thermal		Install 2 x 132kV circuits, reconfigure the existing Bramley Thatcham/Andover 132kV circuits teed at Ashford Hill and install 4 x 132kV Circuit Breakers	Not currently proposed but will be subject to further assessment	157MVA 2024
Yattendon Ring EHV circuit	Thermal		Reinforce c. 1km of EHV underground cable and implement an auto-changeover scheme	Not currently proposed but will be subject to further assessment	9MVA 2025



## Chickerell GSP





### Chickerell GSP

This GSP supplies the following BSP

- Chickerell BSP

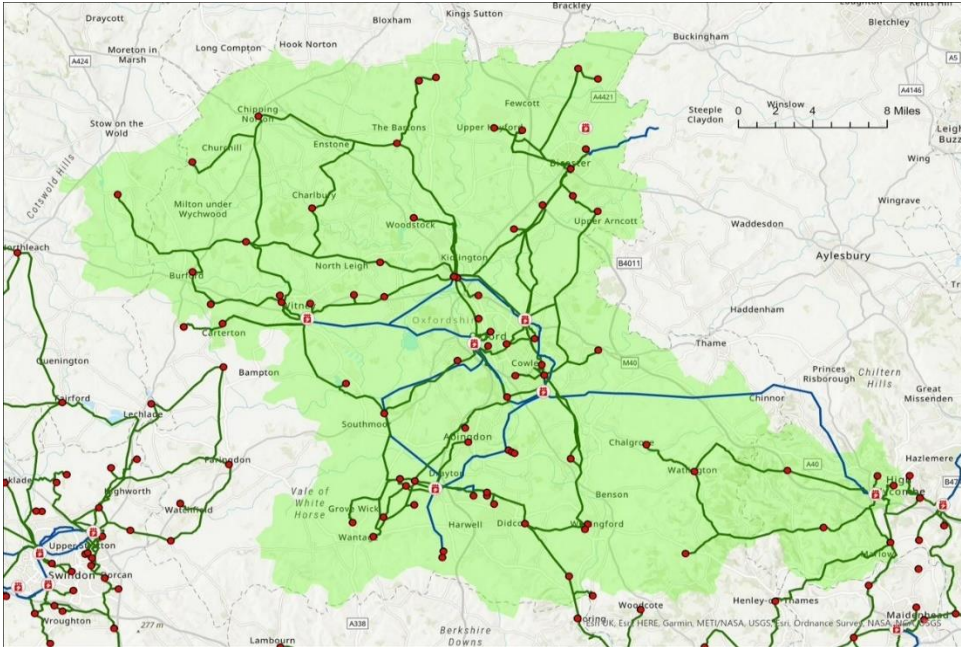
Chickerell GSP is located within the Southwest region of the SEPD licence area and currently supplies more than 62,000 customers.

Table 10: Investments on the Chickerell GSP Network

Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Weymouth Primary Substation	Asset Health		Replace the existing EHV transformers due to Asset Health and increase capacity by reinforcing with a 3 x 30MVA EHV transformers	N/A	28.2MVA 2024
Redlands Primary Substation	Asset Health		Replace the existing EHV transformers due to Asset Health and increase capacity by reinforcing with a 2 x 24MVA EHV transformers	N/A	3.78MVA 2026



## Cowley GSP






### Cowley GSP

This GSP supplies the following BSPs

- Cowley
- Drayton
- Headington
- High Wycombe
- Oxford
- Witney & Yarnton





Cowley GSP is located within the Ridgeway region of the SEPD licence area and currently supplies more than 279,300 customers.

Table 11: Investments on the Cowley GSP Network

Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Milton Primary substation	Fault Level		Run the Milton HV bar split with an auto-changeover scheme to reduce overall fault level within current capability	N/A	3.24kA Break 7.2kA Make  2024
Charlbury - Woodstock EHV Ring Network	Thermal		Install a new c.9km EHV cable from Deddington - Upper Heyford and reinforce 9.69km Kiddington – Woodstock tee EHV circuit	Not currently proposed but will be subject to further assessment	17MVA  2024
Standlake Primary substation	Thermal		Reinforce the existing primary transformers with 2 x 15MVA transformers.	Not currently proposed but will be subject to further assessment	8.5MVA  2025

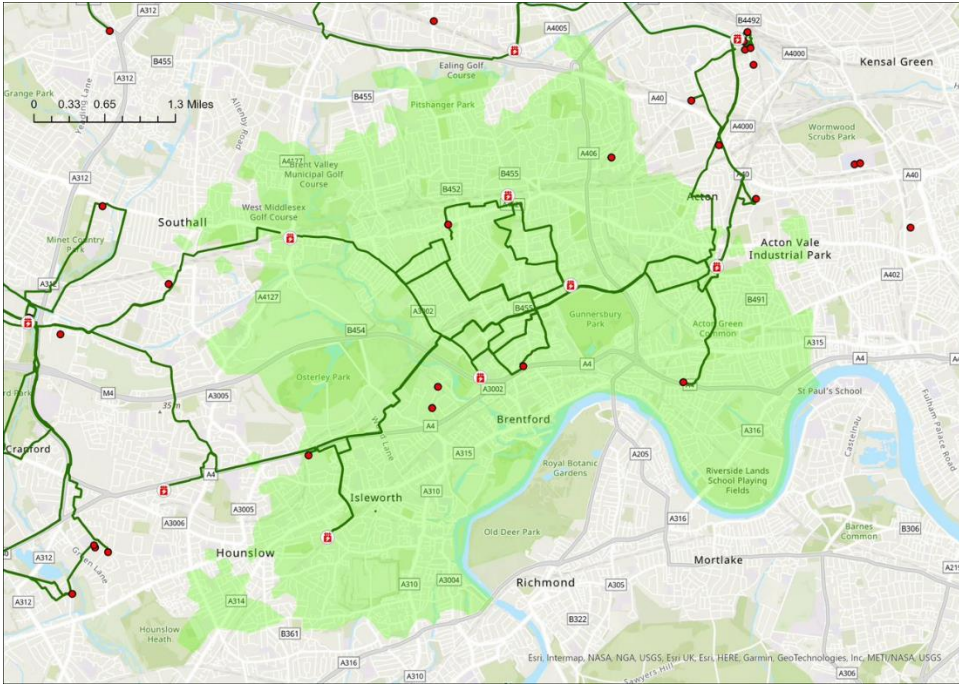




Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Berinsfield Primary substation	Thermal		Reinforce 0.58km of EHV overhead line and 18.44km of EHV cable sections.	Not currently proposed but will be subject to further assessment	10.8MVA 2026
Stokenchurch Primary Substation	Thermal		Use flexibility solution for two years and then reinforce 2 x EHV Transformers, 5.04km of underground cable and 10.92km of overhead line.	Sustain 0.4 – 1.1MVA 2024 -2025	20.2MVA 2026
Oxford (Osney) GSP 132 kV	Thermal		Reinforce 0.1km of 132 kV cables between Cowley and Oxford (Osney)	Not currently proposed but will be subject to further assessment	55MVA 2026
Drayton BSP to Fulscot Primary Substation	Thermal		Use flexibility solution for three years and then reinforce 20.4km of cable and overhead line sections on the 33kV circuits between Drayton and Fulscot S/S.	Sustain 0.2 – 2.6MVA 2024 -2026	14.9MVA 2027



## Ealing GSP






### Ealing GSP

This GSP supplies the following BSPs

- Ealing
- Boston Manor
- Bridge Road
- Ironbridge
- Southfield Road

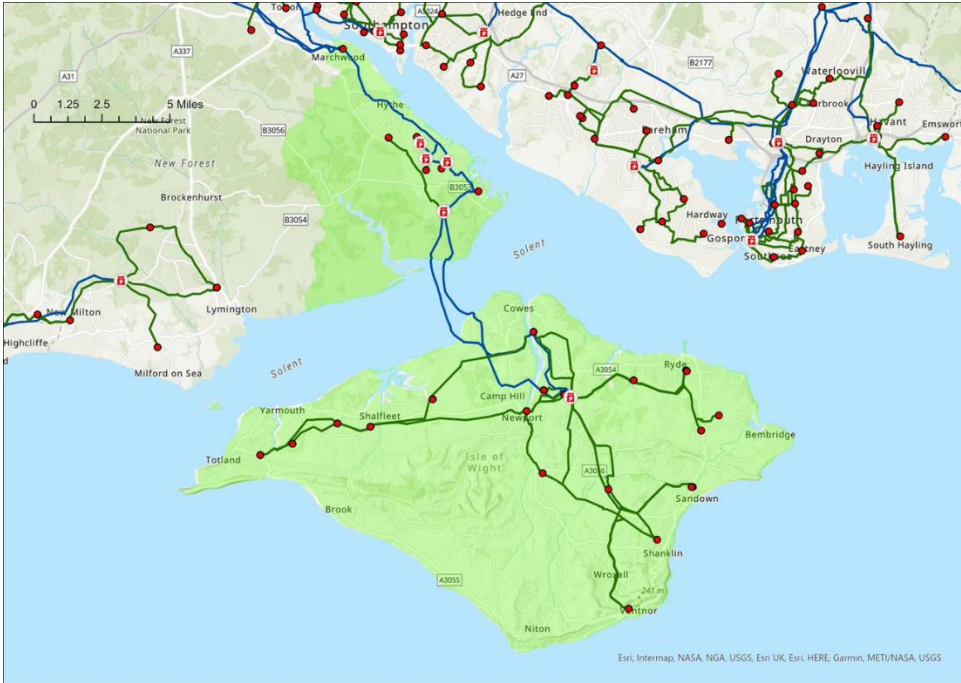
Ealing GSP is located within the Thames Valley region of the SEPD licence area and currently supplies more than 128,500 customers.

Table 12: Investments on the Ealing GSP Network

Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Ealing 66kV GSP	Fault Level		Reinforce 13 x 66kV Circuit Breakers with new Circuit Breakers with greater Fault Level Capability	N/A	9.6kA Break 22.95kA Make  2024
Ealing Primary Substation	Fault level		Reinforce 17 x 22kV Circuit Breakers with new Circuit Breakers with greater Fault Level Capability	N/A	7.5kA Break 17.9kA Make  2024
Harvard Lane Primary Substation	Thermal		Use flexibility solution for two years then reinforce the existing 22/11kV Transformer and 9.4km of 22kV underground cable.	Sustain  0.2 -0.8MVA  2024 -2025	9.9MVA  2026



## Fawley GSP





### Fawley GSP

This GSP supplies the following BSPs

- Cowes
- Fawley
- Langley
- Lynes Common
- Wootton Common

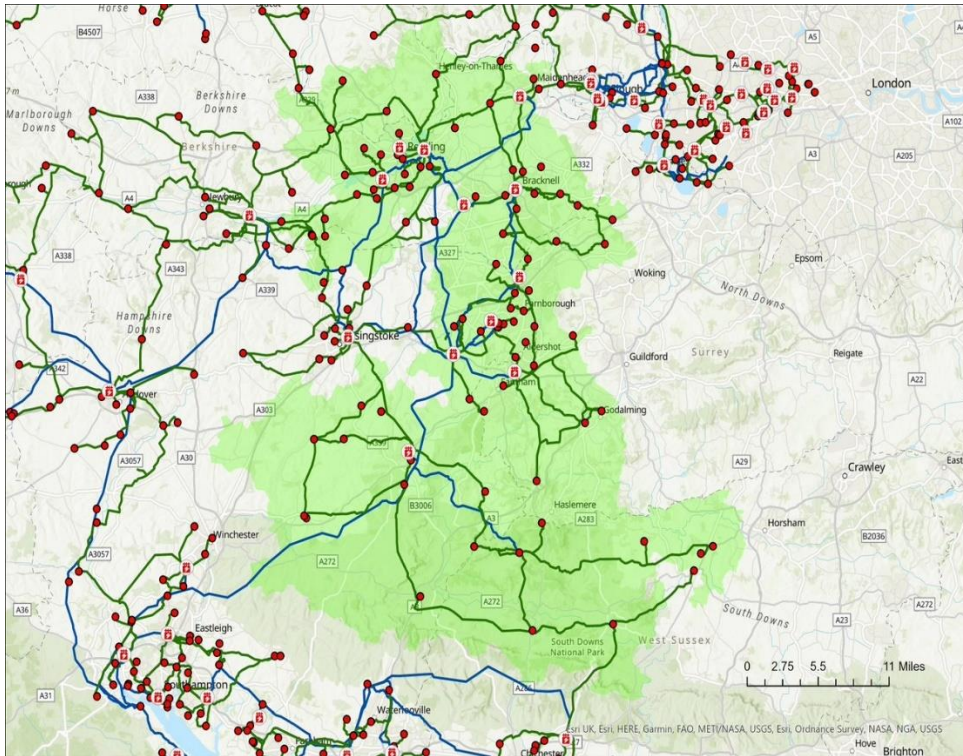
Fawley GSP is located within the Wessex region of the SEPD licence area and currently supplies more than 95,900 customers.

Table 13: Investments on the Fawley GSP Network

Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Wootton Common BSP	Fault Level		Reinforce 3 x EHV Circuit Breakers with new Circuit Breakers with greater Fault Level Capability	N/A	7.5kA Break 17.9kA Make  2024
Fawley 132kV Network	Thermal		Create a dedicated 132kV bus coupler at Fawley North BSP, establish a separate 132kV feeder to the two 132/11kV transformers and uprate existing 132kV circuit	Not currently proposed but will be subject to further assessment.	5MVA  2025



## Fleet GSP






### Fleet GSP

This GSP supplies the following BSPs




- Bracknell
- Burghfield
- Camberley
- Coxmoor Wood
- Maidenhead
- Pyestock
- Reading
- Reading Town
- Wokingham

Fleet GSP is located within the Southeast region of the SEPD licence area and currently supplies more than 441,800 customers.

Table 14: Investments on the Fleet GSP Network

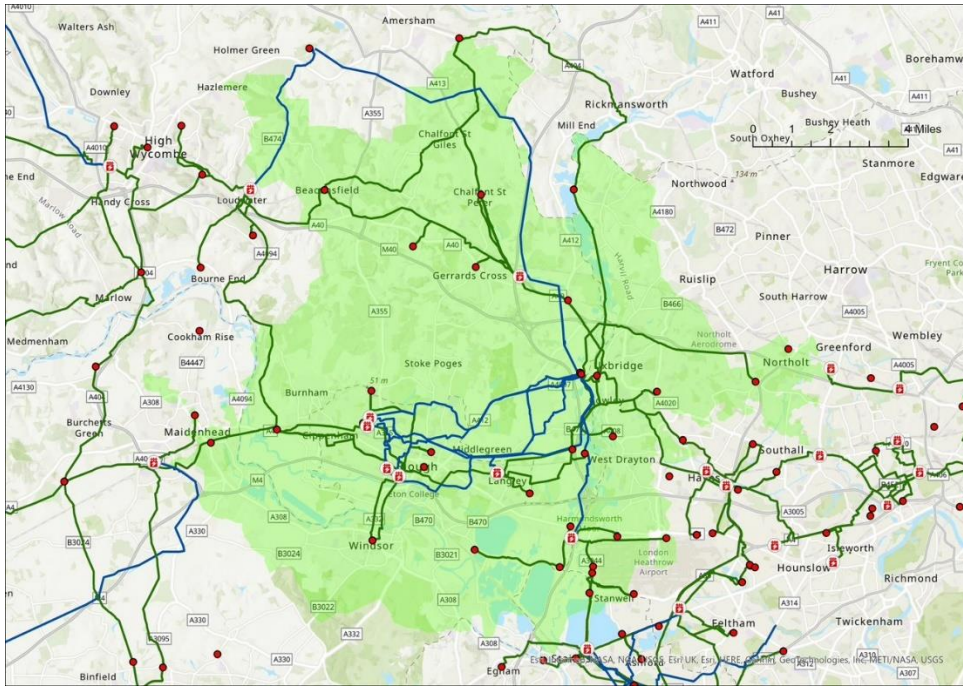
Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Alton - Fernhurst 132 kV Network	Thermal		Establish a new 132kV Switching Station with 9 x 132kV circuit breakers and install 2 x 132kV circuits (c. 10.5km)	Not currently proposed but will be subject to further assessment	93MVA 2024
Warfield Primary Substation	Thermal		Reinforce 2 x EHV underground cable circuits (c. 2.65km)	Not currently proposed but will be subject to further assessment	7.9MVA 2026
Haslemere Primary Substation	Asset Health		Replace the existing EHV transformer due to Asset Health and increase capacity by reinforcing with a 30MVA EHV transformer	N/A	4MVA 2026



Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Goring & Cholsey Primary Substation	Thermal		Reinforce 11.59km of EHV overhead line	Not currently proposed but will be subject to further assessment	10MVA 2026
Alresford Primary Substation	Thermal		Use flexibility solution for two years then reinforce 2 x EHV transformers and reinforce 14.18 km of EHV overhead line	Sustain 0.2 - 1MVA 2024 - 2025	11MVA 2026
Fleet Bramley Network	Thermal		Install 14 x 132kV Circuit Breakers at Bramley 400/132kV GSP and split Fleet and Bramley GSP	Not currently proposed but will be subject to further assessment	255MVA 2028



## Iver GSP






### Iver GSP

This GSP supplies the following BSPs



- Chalvey
- Cippenham
- Denham
- Longford
- Slough
- Slough South
- Upton

Iver GSP is located within the Thames Valley region of the SEPD licence area and currently supplies more than 73,400 customers.

Table 15: Investments on the Iver GSP Network

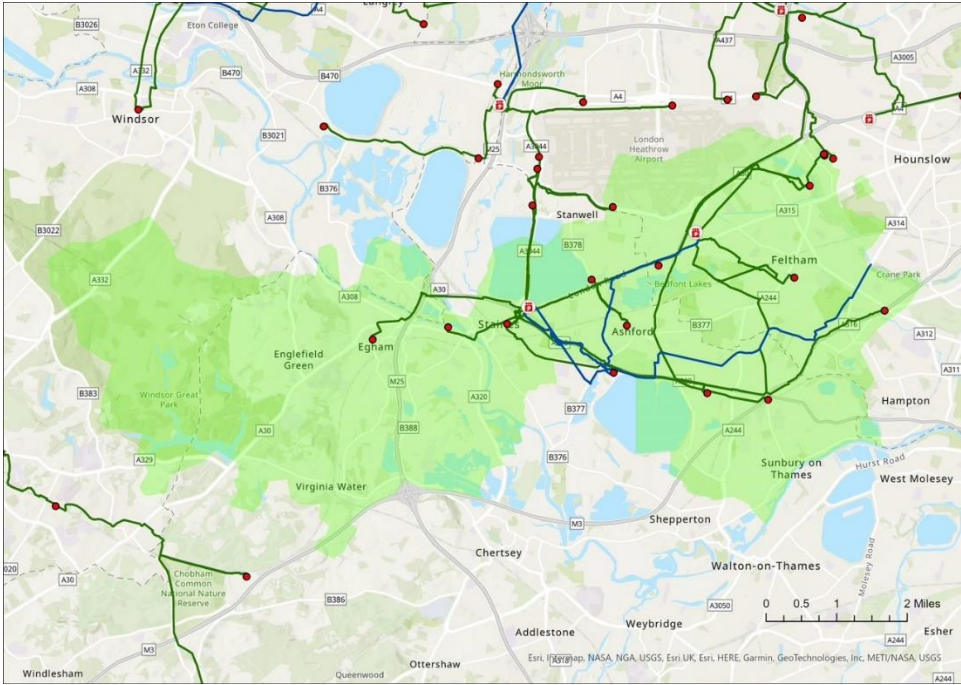
Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Clarence Road Primary Substation	Asset Health		Replace the existing EHV transformers due to Asset Health and increase capacity by reinforcing with a 2 x 40MVA EHV transformers	N/A	25.8MVA 2024
Denham 132kV circuits	Thermal		Reinforce 0.27km of 132kV underground cable	Not currently proposed but will be subject to further assessment	37.1MVA 2025
Iver 132kV Network	Fault Level		Establishment a new 132kV indoor substation inclusive of 21 x 132kV circuit breakers and 3km of 132kV underground cable.	N/A	20kA Break 50kA Make 2026



Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Upton EHV System	Thermal		Use flexibility solution for one year then establish a new 132kV switching station with 9 x 132kV circuit breakers and a new 6 km 132kV underground cable circuit	Sustain 1.3MVA 2025	124MVA 2026
Beaconsfield Primary Substation	Thermal		Install 2 x EHV circuit breakers, 2 x 6 km EHV underground cables, 2 x new EHV transformers and 2 x 6.6kV circuit breakers	Not currently proposed but will be subject to further assessment	3.4MVA 2026



## Laleham GSP





### Laleham GSP

This GSP supplies the following BSPs

- East Bedfont
- Staines

Laleham GSP is located within the Thames Valley region of the SEPD licence area and currently supplies more than 79,100 customers.

Table 16: Investments on the Laleham GSP Network

Investment Requirements					
Location	Driver	Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Egham Primary & EHV Circuits to Staines	Thermal		Use flexibility solution for 3 years and then install a new transformer with associated switchgear and 5km of EHV cable	Sustain 0.2 – 2.1MVA 2024 - 2026	28MVA 2027
East Bedfont A BSP	Thermal		Use flexibility solution for 3 years and reinforce existing transformers associated switchgear.	Sustain 0.1 – 3.3MVA 2024 -2026	19MVA 2027





## Lovedean GSP






### Lovedean GSP

This GSP supplies the following BSPs

- Chichester & Hunston
- Fareham
- Havant
- Portsmouth
- Wymering

Lovedean GSP is located within the Southeast region of the SEPD licence area and currently supplies more than 348,400 customers.

Table 17: Investments on the Lovedean GSP Network

Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Hilsea Primary Substation	Fault Level		Reinforce 1 x EHV Circuit Breaker with increased fault level capability	N/A	7.5kA Break 17.9kA Make  2024
Birdham Primary Substation	Thermal		Reinforce the existing primary transformers with 2 x 20MVA transformers.	Not currently proposed but will be subject to further assessment	11MVA  2025
Ashling Road Primary Substation - Hunston BSP	Thermal		Use flexibility solution for 2 years and then install new 12.9km EHV cable and reinforce the existing 33/11kV transformers & associated EHV switchgear	Sustain  0.3 – 1.7MVA  2025 -2026	12MVA  2027



## Mannington GSP



### Mannington GSP

This GSP supplies the following BSPs






- Arnewood
- Bournemouth
- Christchurch
- Lytchett
- Mannington
- Poole
- Redhill
- Salisbury
- Shaftesbury
- Wareham
- Winfrith Heath

Mannington GSP is located within the Wessex region of the SEPD licence area and currently supplies more than 404,800 customers.




Table 18: Investments on the Mannington GSP Network

Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Mannington – Mill Lane EHV Network	Thermal		Reinforce existing 10 x 33kV Isolators rated at 400A with new 800A isolators.	Not currently proposed but will be subject to further assessment	20 MVA 2024
Mill Lane Primary Substation	Asset Health		Replace the existing EHV transformers due to Asset Health and increase capacity by reinforcing with a 2 x 40MVA EHV transformers	N/A	8.8MVA 2024
Bourton EHV Network	Thermal		Reinforce 11.2km of EHV overhead line	Not currently proposed but will be subject to further assessment	11.6MVA 2025



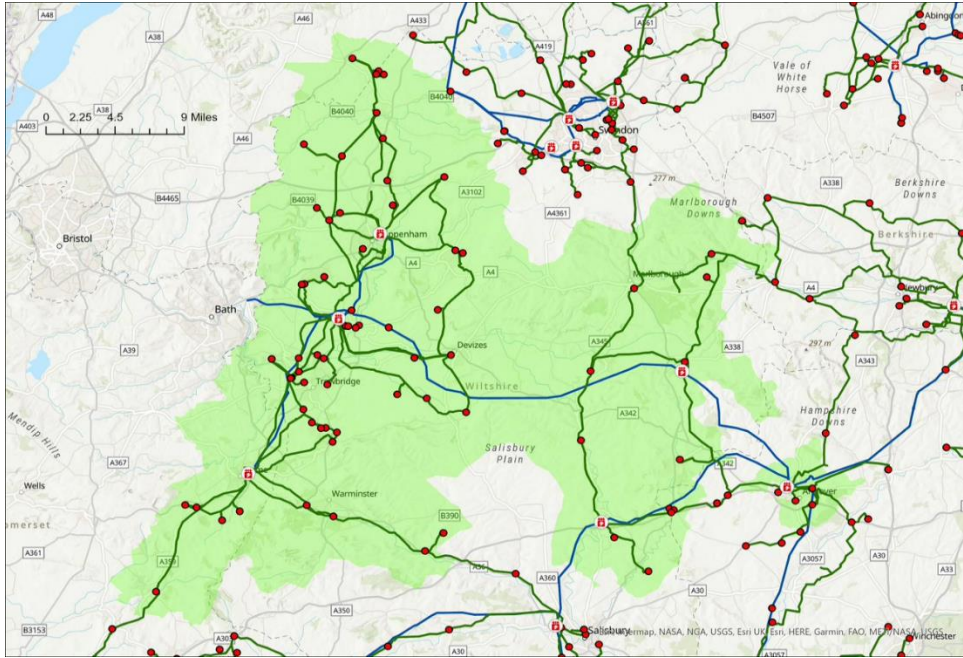
Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Arnewood BSP	Asset Health		Replace the existing 132kV transformers due to Asset Health and increase capacity by reinforcing with a 2 x 90MVA EHV transformers	N/A	9.3MVA 2024
Wareham BSP	Asset Health		Replace the existing EHV transformers due to Asset Health and increase capacity by reinforcing with a 2 x 45MVA EHV transformers	N/A	4.65MVA 2024
Wimborne Primary Substation	Thermal		Use flexibility solution for two years then reinforce the existing transformers with 2 x 25MVA EHV transformers, 5.38km of EHV overhead line and 1km of EHV underground cable	Sustain 0.6 – 1.9MVA 2024 - 2025	7.7MVA 2026
Lytchett Primary Substation	Fault Level		Reinforce 11 x EHV Circuit Breakers with new Circuit Breakers with greater Fault Level Capability	N/A	7.5kA Break 17.9kA Make 2026
Amesbury – Salisbury 132kV Network	Thermal		Use flexibility solution for 1 year then reinforce 2 x 1.3km of 132kV cable, a 132kV isolator and install 2 x 132kV circuit breaker	Sustain 0.2 MVA 2025	40MVA 2026



Milford on Sea Primary Substation	Asset Health		Replace the existing EHV transformers due to Asset Health and increase capacity by reinforcing with a 2 x 24MVA EHV transformers	N/A	10.28MVA 2026
Bermerton EHV Network	Thermal		Reinforce 0.5km of EHV underground cable and 6.5km of EHV overhead line.	Not currently proposed but will be subject to further assessment	35.7MVA 2026
Wareham Town EHV Network	Thermal		Use flexibility solution for two years then reinforce c. 1km of EHV underground cable	Sustain 0.4 – 1MVA 2025 -2026	1.1MVA 2027



## Melksham GSP






### Melksham GSP

This GSP supplies the following BSPs





- Andover
- Chippenham
- Frome
- Norrington
- West Grafton

Melksham GSP is located within the Ridgeway region of the SEPD licence area and currently supplies more than 193,700 customers.

Table 19: Investments on the Melksham GSP Network

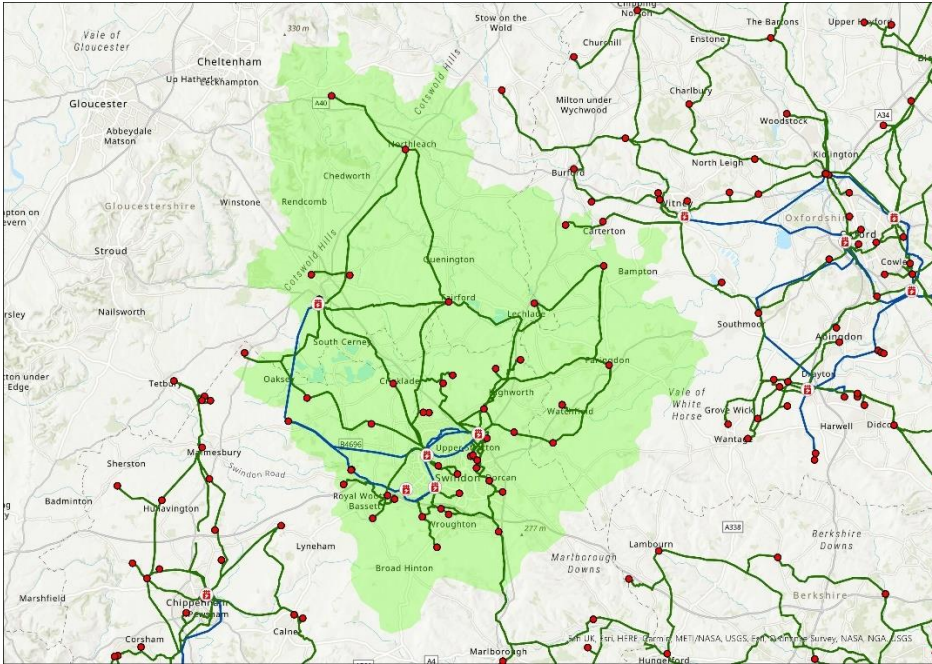
Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Calne Primary Substation	Thermal		Reinforce c. 20km of EHV overhead line and c. 0.5km of EHV underground cable	Not currently proposed but will be subject to further assessment	3.2MVA 2025
Lyneham Primary Substation	Asset Health		Replace the existing EHV transformers due to Asset Health and increase capacity by reinforcing with a 2 x 24MVA EHV transformers	N/A	7.18MVA 2025
Norrington BSP to Ashton Park	Thermal		Use flexibility solution for 2 years then reinforce c. 5km of EHV cable and c. 16km of EHV Overhead line	Sustain 0.02 – 0.1 MVA 2024 - 2025	2.5MVA 2026



Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Chippenham & Cocklebury Primary Substations	Fault Level		Run the Chippenham EHV bar and Cocklebury HV bar split with an auto-changeover scheme to reduce overall fault level within current capability	N/A	4.6kA Break 8.8kA Make  2026
Alderton Primary Substation	Thermal		Use flexibility solution for two years then reinforce the existing transformers with 2 x 6.3MVA EHV transformers	Sustain 0.3 - 0.5 MVA 2024 - 2025	3.9MVA  2026
Ashton Park Primary Substation	Asset Health		Replace the existing EHV transformers due to Asset Health and increase capacity by reinforcing with a 2 x 40MVA EHV transformers	N/A	3.88MVA  2026
Brunton Primary Substation	Thermal		Reinforce c. 17km of EHV overhead line	Not currently proposed but will be subject to further assessment	8MVA  2028



## Minety GSP






### Minety GSP

This GSP supplies the following BSPs




- Cirencester
- Galileo
- Stratton
- Swindon
- Toothill

Minety GSP is located within the Ridgeway region of the SEPD licence area and currently supplies more than 151,100 customers.

Table 20: Investments on the Minety GSP Network

Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Swindon Primary Substation (EHV)	Fault Level		Reinforce 11 x EHV Circuit Breakers with new Circuit Breakers with greater Fault Level Capability	N/A	7.5kA Break 17.9kA Make  2024
Stratton EHV Circuit Breakers	Fault Level		Reinforce 4 x EHV Circuit Breakers with new Circuit Breakers with greater Fault Level Capability	N/A	7.5kA Break 17.9kA Make  2024
Swindon Primary Substation (HV)	Fault Level		Reinforce 13 x HV Circuit Breakers with new Circuit Breakers with greater Fault Level Capability	N/A	11.9kA Break 29.1kA Make  2024

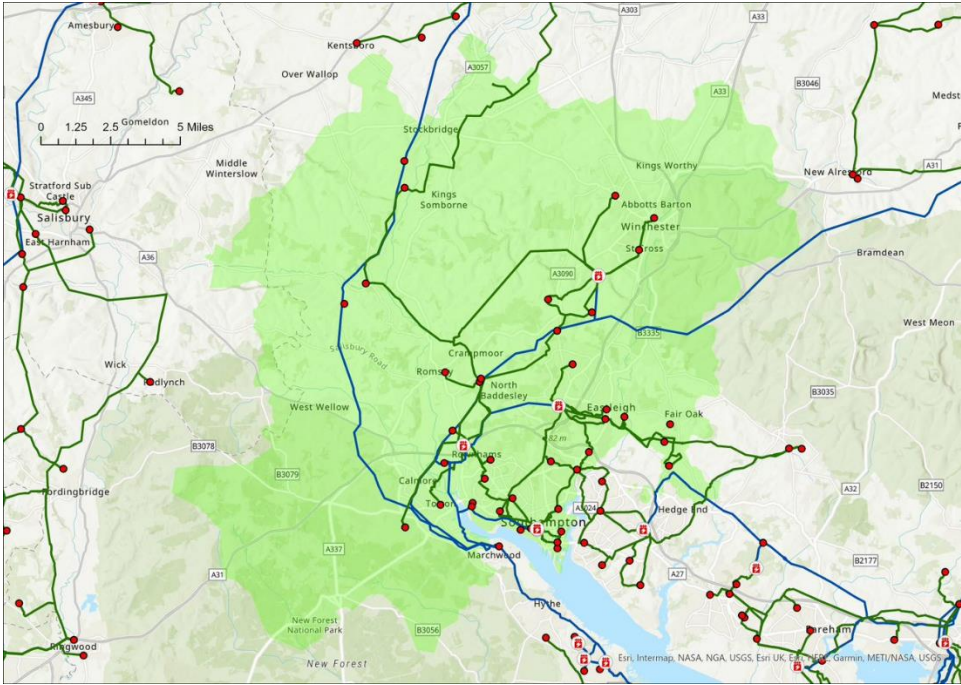


Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Swindon Pressed Steel	Fault Level		Reinforce 8 x HV Circuit Breakers with new Circuit Breakers with greater Fault Level Capability	N/A	11.9kA Break 29.7kA Make  2025
Faringdon Primary Substation	Thermal		Reinforce the existing transformers with 2 x 20MVA EHV transformers	Not currently proposed but will be subject to further assessment	10.4MVA  2025
Lechlade Primary Substation	Asset Health		Replace the existing EHV transformers due to Asset Health and increase capacity by reinforcing with a 2 x 15MVA EHV transformers	N/A	4.75MVA  2026





## Nursling GSP





### Nursling GSP

This GSP supplies the following BSPs

- Rownhams
- Southampton
- Velmore
- Winchester

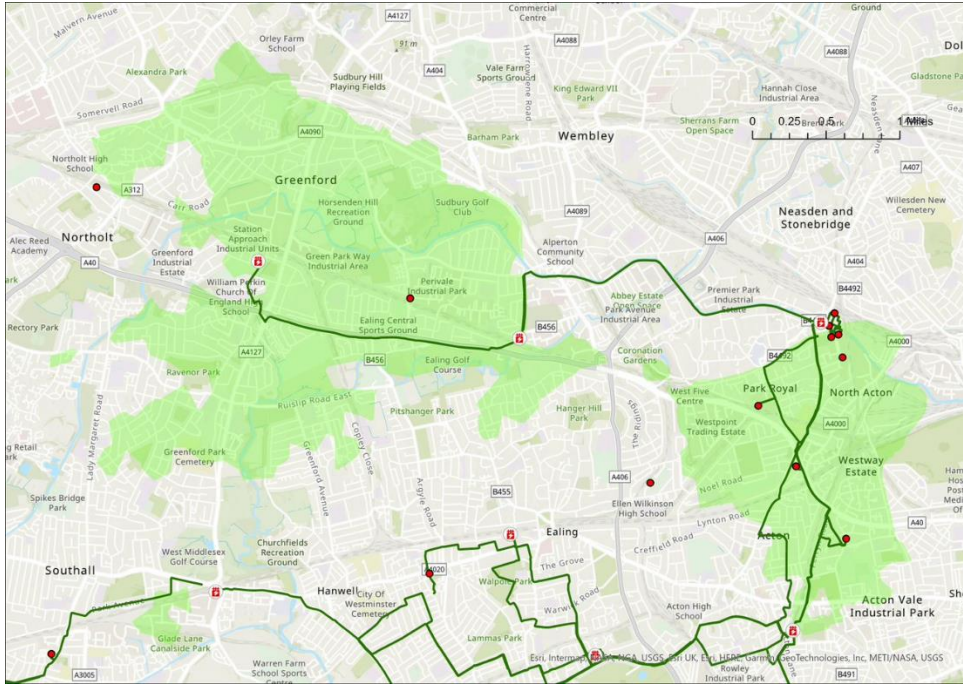
Nursling GSP is located within the Wessex region of the SEPD licence area and currently supplies more than 186,800 customers.

Table 21: Investments on the Nursling GSP Network

Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Maybush Primary Substation	Fault Level		Reinforce 10 x HV Circuit Breakers with new Circuit Breakers with greater Fault Level Capability	N/A	11.9kA Break 29.1kA Make  2024
Southampton Primary Substation	Fault Level		Reinforce 7 x EHV Circuit Breakers with new Circuit Breakers with greater Fault Level Capability	N/A	7.5kA Break 17.9kA Make  2026



## Willesden GSP




### Willesden GSP

This GSP supplies the following BSPs

- Acton Lane
- Green Ford
- Perivale

Willesden GSP is located within the Thames Valley region of the SEPD licence area and currently supplies more than 38,100 customers.

Table 22: Investments on the Willesden GSP Network

Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service, Capacity & Year(s)	Reinforcement Released Capacity & Year
Leamington Park Primary Substation	Thermal		Reinforce 18km of 6.6kV underground cable with 18km of 11kV underground cable.	Not currently proposed but will be subject to further assessment	11MVA 2025



## Multiple GSPs

### South West Active Network (SWAN)

The SWAN scheme has been developed by Scottish and Southern Electricity Networks (SSEN) to allow connecting generation customers to meet a requirement set by National Grid Electricity Transmission (NGET). The requirement, identified during the generation customer's application to connect, stipulates the need for suitable monitoring and control within set ranges calculated by NGET, at key parts of our southern distribution network. This monitoring and control is known as Active Network Management (ANM). This allows for the automated real time management of generation to maintain an electrical network within operational constraints and in compliance with National Electricity Transmission System Security and Quality of Supply Standards. Without this, NGET would not allow generation to be connected.

SWAN will operate when NGET issue a control signal to SSEN to curtail or de-energise generation as required. The curtailment is calculated by comparing real time power flows against the capacity limit of NGET's network. If the power flows are greater than the available capacity then it is necessary to reduce the power flow onto NGET's network. For SWAN, curtailment is applied under an N-3 condition on NGET's network. An N-3 condition is where NGET have three parts of their normal network unavailable and the remaining network cannot absorb additional generation. It should be noted that this type of event is rare. Other curtailment may be applied for several failsafe actions i.e. in the event of a loss of communications at various interfaces.

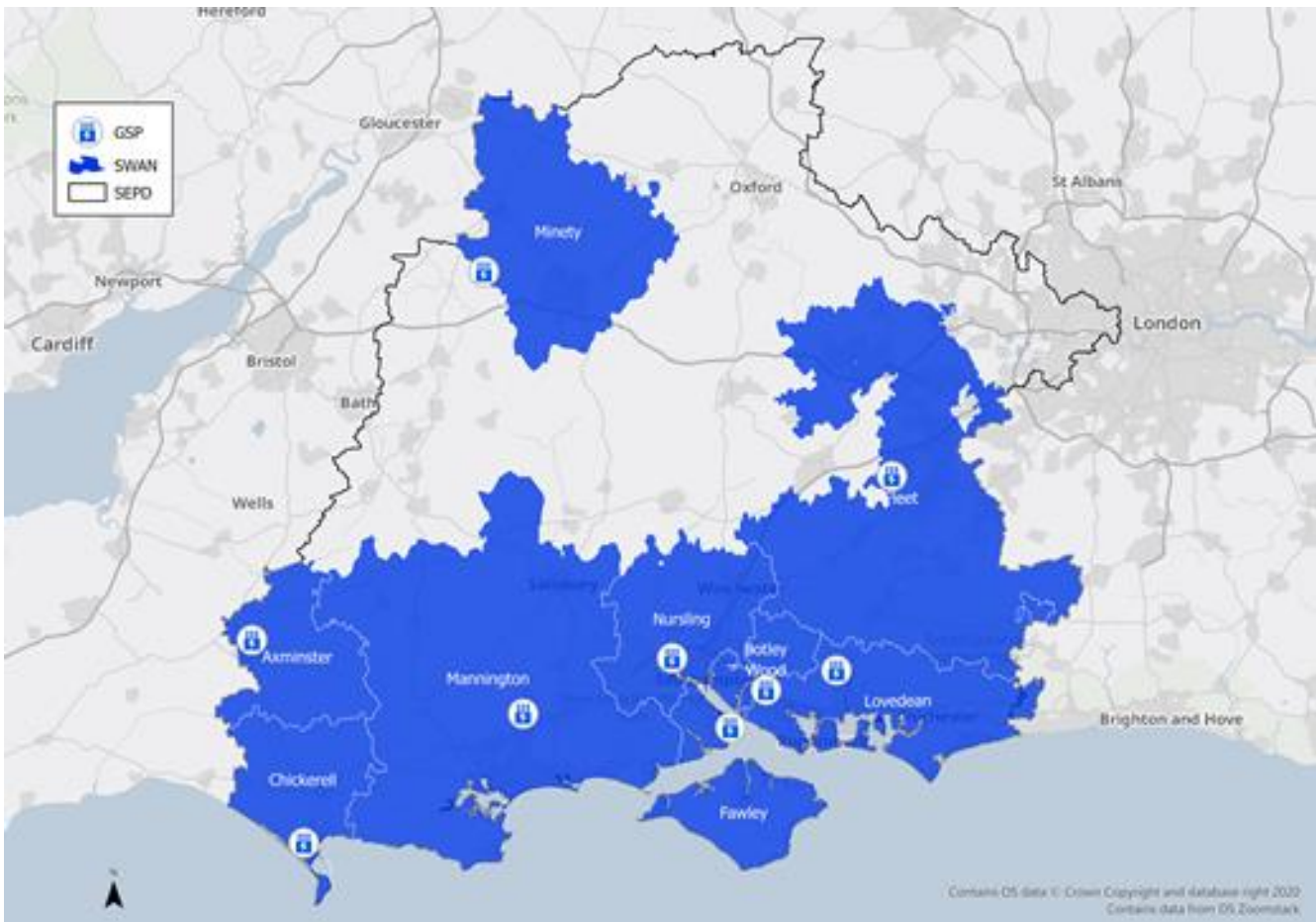





Table 23: GSPs Operating SWANS

Investment Requirements					
Location	Driver	Asset Intervention	Proposal	Flexible Service & Year(s)	Reinforcement Released Capacity & Year
Axminster, Mannington, Chickerel, Fawley, Nursling, Botley Wood, Lovedean, and Fleet GSPs	Thermal		Using an enduring flexibility solution (supported by ANM) to maintain the distribution network within operational constraints and in compliance with National Electricity Transmission System Security and Quality of Supply Standards.	Enduring from 2022	N/A



## **SEPD CONSULTATION FEEDBACK 28 MARCH 2022 – 24 APRIL 2022**



## Appendix B – SEPD CONSULTATION FEEDBACK

The table below highlights the questions we asked our stakeholders, local authorities, developers and generators to gain valuable insight into how the NPD data will be used and to understand where improvements can be made.

Table 24: Consultation Questions, Feedback and SEPD Response

SEPD Questions	To help us understand how to help you, could you outline how you plan to use the information contained in this plan	Does the Network Development Plan provide the information you need to understand our development plans for the network out to 2032/33? If not, what future improvements could be made?	Is the methodology and assumptions used to prepare this plan clear? If not, have you any feedback for future iterations.	Is the proposed format for the Network Headroom Report clear? Can you easily identify areas where there is capacity and where there are constraints?
Consultee Feedback	The information from the Network Development Plan will be used to increase the number, quality and scale of local energy projects being delivered in local authority areas	<p>We welcome the publication of the final Network Development Plan, and the data of your most up to date forecast scenarios, investments and headroom capacity</p> <p>Our initial observations, which may well have been considered, include:</p> <ol style="list-style-type: none"> <li>1) Ability to filter data by specific LEP</li> <li>2) Data in Appendix 1-3 to include postcode and county</li> <li>3) A “read this first” / exec summary document to assist public sector engagement</li> </ol>	No response on this occasion.	Yes. However, to improve our ability to identify areas we would also welcome the innovation that SSEN Distribution regularly update and publishes network information via your Heat Maps (on your website). We would also make the suggestion that you continue to use colour codes to help inform our public sector stakeholders of areas of capacity and constraints.
SEPD Response	N/A	<p>In response to the individual points:</p> <ol style="list-style-type: none"> <li>1) We have now added a new tab within the NHR that aligns GSPs, BSPs and primary substations to confirm the LEP that these sites operate in and support.</li> <li>2) We have updated our appendices to show detailed maps of the areas where investment will take place. As our investments aren’t necessarily in a specific postcode area, as they can span multiple postcodes, we believe that the inclusion of maps will better aid the readers to identify the areas where investments will occur.</li> <li>3) We have added a Key Information tab as part of the Network Headroom Report. This provides additional detail to assist the reader with how to interpret the data being provided.</li> </ol>	N/A	<p>We will continue to update our Heatmaps on a regular basis and our Long Term Development Statement and NDP in line with our obligations.</p> <p>We have kept the proposed colour coding system of GREEN and RED text and cells to draw attention to potential areas of capacity or constraint. We hope this continues to be of use to you and other users of the NDP.</p>