SHEPD NETWORK DEVELOPMENT REPORT

Final Publication, May 2026

Scottish & Southern Electricity Networks

CONTENTS

INTRODUCTION

This is Scottish and Southern Electricity Networks Distribution's (SSEN-D) 2026 Network Development Report (NDR) of the SHEPD licence area.
In advance of publishing the 2026 Network Development Plan, SSEN conducted a formal consultation on the draft NDP document suite comprised of the Methodology & Assumptions document, the Network Development Reports and the Network Scenario Headroom Report. The consultation was open for 28 days and closed on 27th April. No formal written responses were received. However, SSEN hosted a webinar on 14th April 2026, attended by a range of stakeholders including local authorities, developers, flexibility providers and industry participants. Questions raised during the session were addressed directly. Given the absence of formal responses, no material changes to the Network Development Report were required as a result of the consultation process.

Project timescales, capacity data and forecast completion dates presented in this final report reflect the latest network analysis and project development. Part two of the report details interventions signposted in SSEN's published Strategic Development Plans and have been updated with the Long-Term Development Statement (LTDS) published in earlier in Spring 2026. This includes substantially more information on network capacities drawn from the LTDS.

The NDR is part of a suite of 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 11kV 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 the Distribution Network Operator's (DNO's) network that are most suited to new connections and distribution of further quantities of electricity;

b) A description of those parts of the licensee's Distribution System where reinforcement may be required in order to connect new capacity and new loads, including to facilitate the deployment of Electric Vehicle Recharging Points;

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 the DNO reasonably expects to need as an alternative to reinforcement.

This Report and our wider Network Development Plan (NDP) build on existing publications[1], 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

1 See Figure 2 in NDP – Methodology and Assumptions for existing publications and corresponding time horizons.

b) Flexibility - SSEN

To aid users of this report, we have worked with all DNOs across Great Britain to ensure consistency in reporting. SSEN-D, along with other DNOs and Transmission Operators (TOs) across Great Britain, is a member of the Energy Networks Association (ENA). Through the ENA's Open Networks project, we have worked collaboratively to develop a Form of Statement of Network Development Plans[2] project. As a result of this work, the NDP is split into three distinct reports, as illustrated in Figure 1; the red box highlights the part that this document – the Network Development Report – represents.

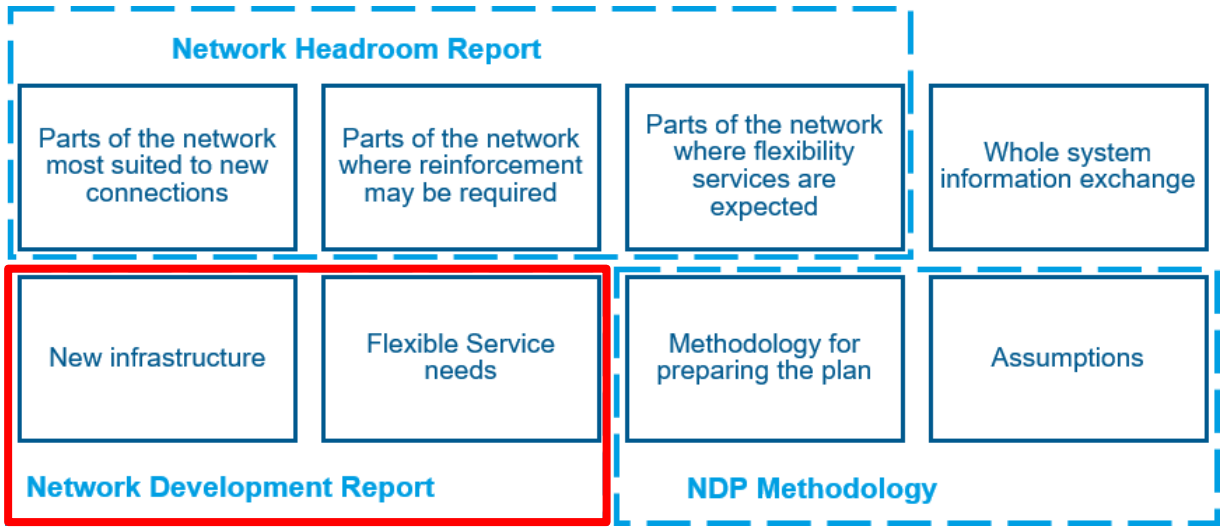


Figure 1: NDP Reporting Structure

Network Development Report (NDR) overview

The NDR provides a comprehensive view of our network, bringing together our plans for the current price control period (RIIO-ED2, which runs until March 2028) and initial programmes for subsequent years, up to 2036. It also references other key publications that set out the likely use and development of our network and the opportunities that this may present.

Using latest available Distribution Future Energy Scenarios (DFES) at the time of publication and accounting for the transitional Regional Energy Strategy Plans (tRESPs), 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 contained within this report informs our Network Scenario Headroom Report (NSHR), which indicates potential investment opportunities for flexible 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 flexible service requirements:

- For the next five to ten years

2 ENA NDP Form of Statement Template and Process (22 Dec 2021)

- Location of the intervention
- Requirements for flexibility services or increasing existing asset capacity; and
- When the works are forecast for delivery.

The reinforcement schemes identified in this Network Development Report, reflect the need to accommodate significant future growth in electricity demand, including the anticipated deployment of electric vehicle charging infrastructure across SSEN's license areas. Work at the primary network level – including 11kV feeder reinforcement, transformer reinforcement, transformer uprating and substation capacity extensions – serve to release network headroom, enabling new connections to proceed without constraint. By seeking to proactively invest in primary network capacity ahead of demand materialising, SSEN aims to support the accelerated uptake of EVs, heat pumps and other low carbon technologies, helping to reduce the reinforcement burden on the individual connection applicant where possible. The NDR is therefore intended to provide visibility to developers, local authorities and charge point operators regarding areas of existing or planned network capacity.

How to read this report

The NDR describes our forward programme of interventions required on our networks over the next five to ten years. This includes details of our proposed flexibility needs as well as network interventions. These decisions are derived from our network development process which is described in the accompanying NDP Methodology and Assumptions report as well as our latest Distribution Network Options Assessment (DNOA) methodology.

This section provides both guidance on the information pertaining to potential Flexibility Services and network interventions listed in the report. It also provides further context on our current suite of Flexibility Services.

We provide summary tables of forward-looking flexibility needs and network interventions in three sections within the body of this report. These are:

- **Part 1: Flexibility Service Solutions** – Known flexibility opportunities as reported in our latest SLC 31E procurement statement.

- **Part 2: SHEPD Interventions –** Interventions needed in SHEPD for projects in initial development and detailed development and delivery (see below).

The project statuses mentioned above refer to the following:

- **Projects in initial development** – these are projects which are still at an early phase of development and have yet to arrive at a DNOA outcome. As such there is still a possibility that the intervention may not be needed in its current form or at all. The use of flexibility may be a feasible outcome. These tend to be longer term projects. Further updates on these projects and other developments at an even earlier stage will be updated through our periodic DNOA outcome releases.

- **Projects in detailed development and delivery** – these are projects that have progressed into more detailed development and delivery. They include projects required for both primary reinforcement and asset replacement purposes. Many of the referenced primary reinforcement projects will be those that have been through the DNOA process and have been assessed as needing network intervention. Some primary reinforcement projects on the list pre-date the DNOA process but will have been similarly assessed for flexibility needs.

Current Flexibility Services products

SSEN-D align with the definition of Flexibility Service products as agreed within the ENA's Open Network Programme[3]. The four key services utilised across all distribution networks are: Scheduled Utilisation (SU), Operational Utilisation (OU), Scheduled Availability + Operational Utilisation (SAOU), and Variable Availability + Operational Utilisation (VAOU). Currently, SSEN-D primarily procures Variable Availability + Operational Utilisation – week ahead response for supporting the deferral of reinforcement. The payment terms for and definitions of these services are summarised in Figure 2.

Flexibility service products

Product	Description	Decision timescales	Payment
Peak Reduction	This product seeks a reduction in peak power utilised over time. This response can manage peaks in demand.	■ Utilisation Instruction: At Trade	Utilisation
Scheduled Utilisation	In this product, the time that flexibility is delivered has been pre-agreed in advance with the provider.	■ Utilisation Instruction: At Trade	Utilisation
Operational Utilisation	This product allows for the use case where the amount of flexibility delivered is agreed nearer to real time.	■ Utilisation Instruction: Real Time or Week Ahead	Utilisation
Operational Utilisation + Scheduled Availability	This product procures, ahead of time, the ability of an FSP to deliver an agreed change following a network abnormality.	■ Availability Refinement: Not allowed ■ Utilisation Instruction: Real Time or Day Ahead	Availability + Utilisation
Operational Utilisation + Variable Availability	This product allows for DNOs and the ESO to procure a level of contracted capacity, but then refine the requirements in terms of availability closer to the event.	■ Availability Refinement: Week Ahead or Month Ahead ■ Utilisation Instruction: Real Time or Day Ahead or Week Ahead	Availability + Utilisation

Figure 2: New Standard Flexibility Service Products[4]

We will continue to dispatch services procured under previous names and Table 1 shows how the previous services match to the new names. It should be noted the mapping is not exact. Some variables, such as when availability instructions are given, have been adjusted to align with the new definitions.

Previous Product Name	New Product Name	Variation
Sustain	Scheduled Utilisation	
Secure	Variable Availability + Operational Dispatch	Month Ahead
Dynamic	Variable Availability + Operational Dispatch	Week Ahead

Table 1: Aligning Flexible Services Products to ENA

3 https://www.energynetworks.org/assets/images/2023/Aug/on-flexibility-products-alignment-(feb-2024).pdf?1711357255

4 SLC 31E Flexibility Services Procurement Statement, available in our Flexible Services Document Library

Part 1 highlights where we are proposing to procure flexible services and the type of services required.

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 flexible services.

Table 2 sets out the key e-mail addresses, phone numbers and websites that can support you with your decision making:

Type of Enquiry	DNO	Email	Telephone	Website
Flexible Services	SHEPD SEPD	flexibleServices@sse.com flexibilityprocurement@sse.com	N/A	Flexibility
Load Connections	SHEPD SEPD	connections@ssen.com	0800 0483516	New Supplies Existing Supplies
Generation Connections (>50kW)	SHEPD SEPD	mcc@sse.com	0345 0724319	Generation Connections
Generation Connections (<50kW)	SEPD	southmicrogen@sse.com	0345 0724319	Generation Connections Microgeneration connections - SSEN

Table 2: Contact details for different types of enquiries

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 whole.system.distribution@sse.com. Please state “Network Development Plan Feedback” in the subject title.

PART 1: FLEXIBILITY SERVICE SOLUTIONS

This section provides information on the zones that have been identified for Flexibility procurement in 2026/27 for both EHV level, and for HV/LV requirements, comprising smaller zones. The information includes the key information about the zone, as well as the peak capacity required (MW) and forecasted dispatch (MWh). We procure flexibility for both long-term tenders and short-term tenders. Typically, long-term tenders have a 3-year outlook for requirements whereas short-term requirements are within-year, usually as short fall from the long-term requirements. Further information is provided through our SLC 31E 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. This document and details of any upcoming flexibility requirements can be found on the SSEN Data Portal[5].

To participate in the Bidding rounds listed in this section, flexibility services providers must first sign an Overarching Agreement. For more information on this, please refer to the website or email Flexibility Services team (see Table 2)[6].

2026/27 Short-term Requirements

Our short-term requirements are procured for requirements that fall within-year. These are typically procured in month-ahead and week-ahead timeframes.

Table P1. 1: 2026/27 Short-Term EHV Requirements

Location	Licence Area	Voltage Level	Peak Capacity Required 2026/27(MW)	Dispatch Forecast 2026/27 (MWh)
Barvas	SHEPD	11kV	0.48	0.72
Coshieville	SHEPD	11kV	0.05	1.07
Halkirk	SHEPD	33kV	0.14	0.53
Inveraray	SHEPD	11kV	0.13	0.78
Kepculloch	SHEPD	11kV	0.0047	0.03
Milnathort	SHEPD	11kV	1.6659	17.5

5 Data Assets

6 https://www.ssen.co.uk/our-services/flexible-solutions/flexibility-services/

Stoneywood T1 & T2	SHEPD	11kV	0.322	1.45
Milnathort	SHEPD	11kV	1.17	221.13
Milnathort	SHEPD	11kV	0.2808	176.904

Table P1. 2: 2026/27 Short-Term HV/LV Requirements

Licence Area	Voltage Level	Peak Capacity Required (MW)	Dispatch Forecast (MWh)	Seasonal Requirement	Number of CMZs
SHEPD	11kV	0.57506	118.01	Winter	15

2026/27 Long Term Requirements

Our long-term markets cover requirements up to 3 years into the future. We procure flexibility at this long-term timeframe to ensure the capacity is released and stimulate market liquidity.

Table P1.3: 2026/27 Long-Term Bidding EHV Requirements

Location	Licence Area	Voltage Level	Peak Capacity Required 2028-2030 (MW)	Dispatch Forecast 2028-2030 (MWh)
Ashgrove	SHEPD	11kV	2.349	42.29
Banchory	SHEPD	11kV	2.1454	41.84
Drumrunie	SHEPD	11kV	0.024	0.45
Dufftown	SHEPD	11kV	0.22	0.99
Forres Scheme 2	SHEPD	33kV	2.4177	43.52
Forres Scheme 3	SHEPD	11kV	1.029	12.35
Kepculloch	SHEPD	11kV	0.3767	5.09
Newtonhill	SHEPD	11kV	1.1357	8.52
Nostie Bridge	SHEPD	11kV	0.45	4.9
Oldmeldrum	SHEPD	11kV	0.6208	9.65
Raigmore 2	SHEPD	11kV	0.5001	10.8
Tressady	SHEPD	11kV	0.03	0.18
Broadford	SHEPD	11kV	0.771	10.54
Ashludie	SHEPD	11kV	0.71	1.62
Stoney Wood	SHEPD	11kV	0.15	0.35

Table P1.4: 2026/27 Long-Term HV/LV Requirements

Licence Area	Voltage Level	Peak Capacity Required (MW)	Dispatch Forecast (MWh)	Seasonal Requirement	Number of CMZs
SHEPD	11kV	1.526	580.36	Winter	35
SHEPD	11kV	0.035	8.53	Autumn/Spring	1

PART 2: SHEPD INTERVENTIONS

This section provides information on planned interventions in the SHEPD licence area. It is organised based on stages of project development and delivery:

- **Projects in initial development** – these are projects which are still at an early phase of development and may yet to arrive at a DNOA outcome. As such there is still a possibility that the intervention may not be needed in its current form or at all. The use of flexibility may be a feasible outcome. These tend to be longer term projects. Further updates on these projects and other developments at an even earlier stage will be updated through our periodic DNOA outcome releases.
- **Projects in detailed development and delivery** – these are projects that have progressed into more detailed development and delivery. They include projects required for both primary reinforcement and asset replacement purposes. Many of the referenced primary reinforcement projects will be those that have been through the DNOA process and have been assessed as needing network intervention. Some primary reinforcement projects on the list pre-date the DNOA process but will have been similarly assessed for flexibility needs.

The information in the tables includes existing and updated capacity, or the capacity to be released, as well as the forecasted reinforcement completion date, which is reflected in the NSHR.

The interventions detailed in the NDR focus on load-related reinforcement and system-driven network upgrades required to maintain security of supply and accommodate forecast demand growth, however asset condition related network interventions are also included in this report.

Figures P2.1 to P2.3 below show the supply areas of each Grid Supply Point (GSP) in the SHEPD licence area. In the GSP-specific sections that follow, only GSPs with network interventions in development / delivery are shown. Supply areas for Primary Substations are available on our Open Data Portal.

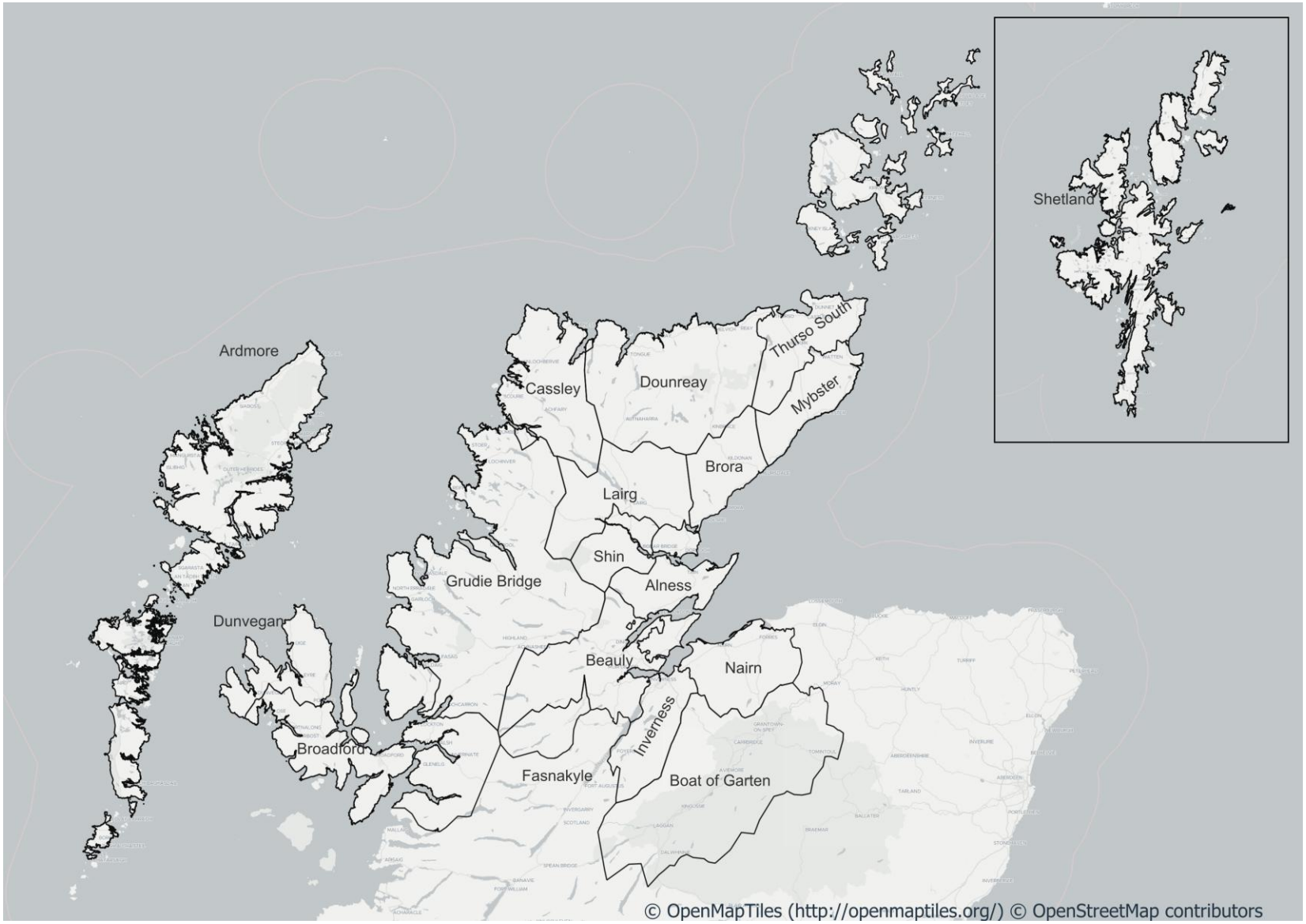


Figure P2.1: GSP Supply Areas in the northwestern portion of the SHEPD licence area.

Figure P2.2: GSP Supply Areas in the eastern portion of the SHEPD licence area.

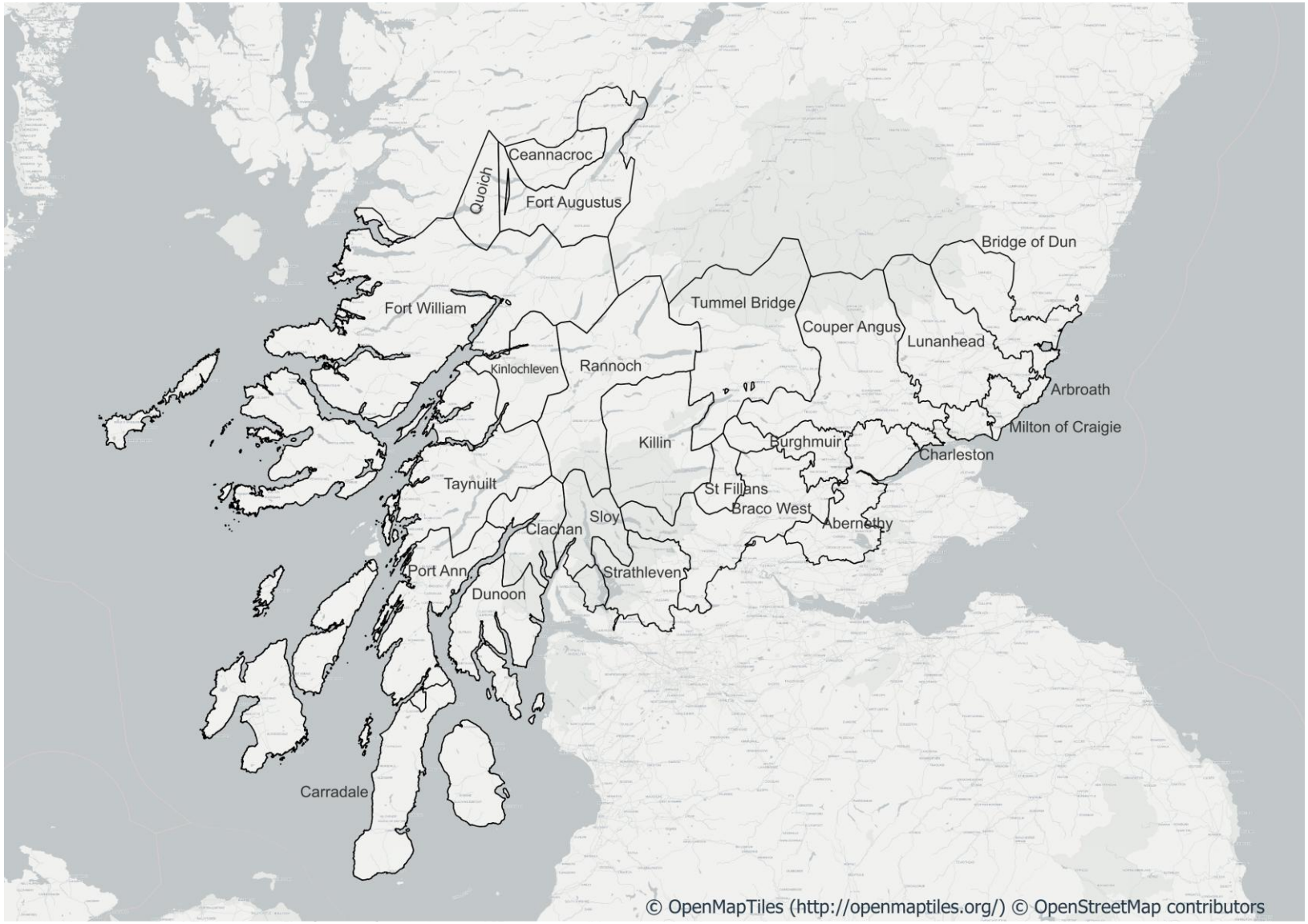


Figure P2.3: GSP Supply Areas in the southwestern portion of the SHEPD licence area.

Reference Map: Network Symbology

Figure P2.4 is intended to aid readers in understanding the GSP-specific maps in the following sections by describing the symbology used for different types of network assets. The locations of GSPs and Primary Substations are represented by yellow and red dots, respectively. 33kV circuits are represented by green lines, and the geographic area supplied by the GSP is denoted by the shaded blue area.

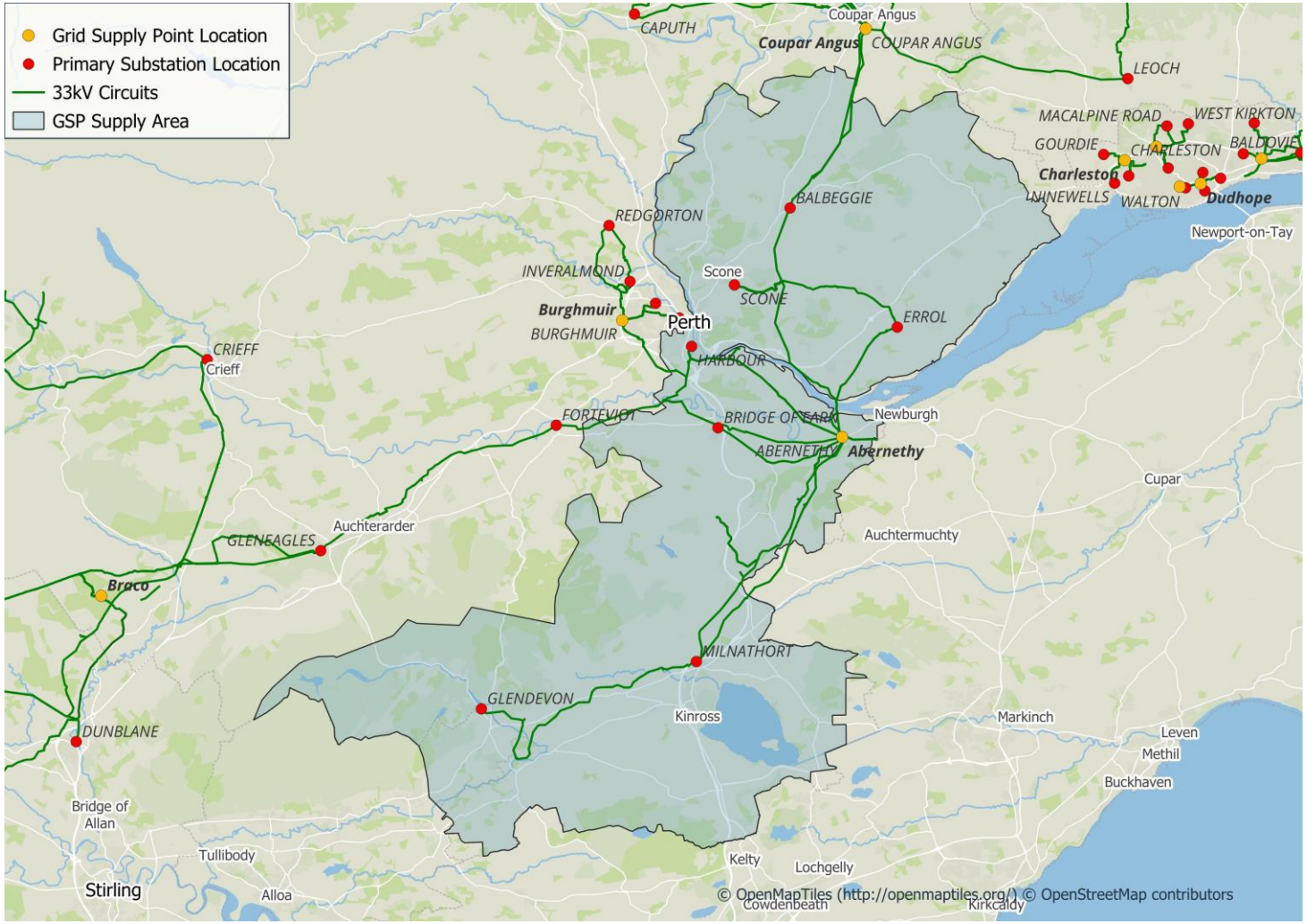
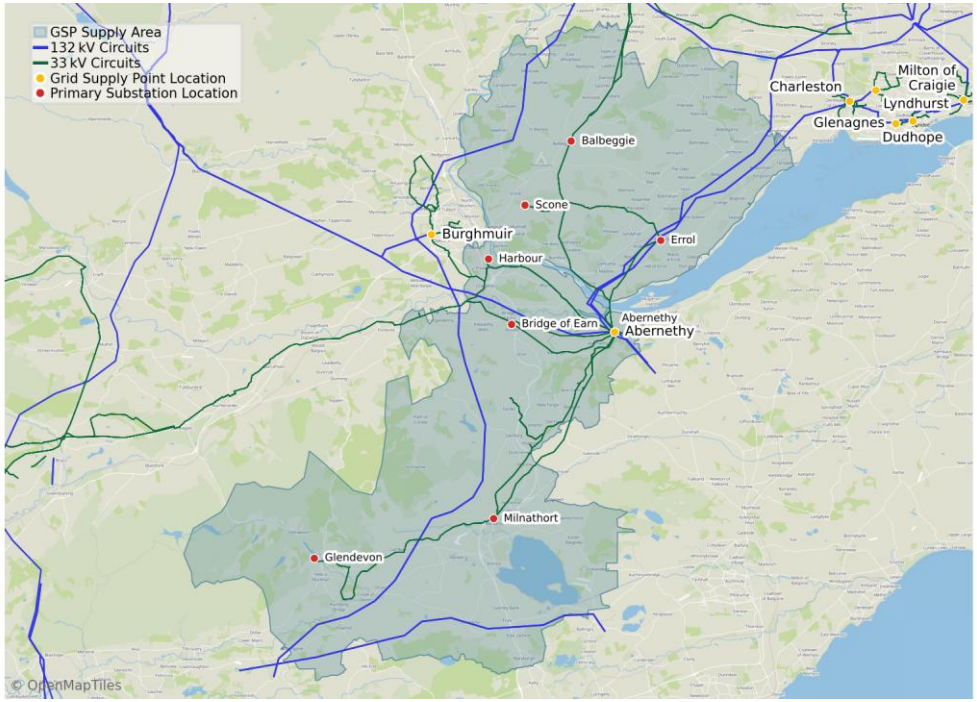


Figure P2.4: Reference map describing symbology for network assets and supply area.

Abernethy



Abernethy GSP Information

This GSP supplies the following primary substations:

- Abernethy
- Balbeggie
- Bridge of Earn
- Errol
- Glendevon
- Harbour
- Milnathort
- Scone

Abernethy GSP is located within the Tayside region of the SHEPD licence area and currently supplies approximately 22,935 customers.

Table P2.1 Abernethy GSP reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Abernethy 33 ring circuit 4L5 & 5L5 (Scone, Balbeggie, Errol)	33	2031	Thermal overload of 33kV ring circuit under N-1 conditions with low voltage from 2034; future thermal overloads at Balbeggie/Scone PSS. Options include ring reinforcement, reconfiguration and new circuits, voltage compensation, or new GSP near Dunkeld.	CV1 - Primary reinforcement

Errol PSS (2x 33 transformers)	33	2031	Thermal overload of Errol primary transformers under N-1 conditions. Options include transformer reinforcement, 11kV load transfer, new PSS, or flexibility services.	CV1 - Primary reinforcement

Table P2.2 Abernethy GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Scone	33/11	N/A	N/A	N/A	Dec-26	N/A	Scone PSS - Switchgear Replacement. Increase in make and break fault ratings to 25kA break / 62.5kA make LTDS Nodes: 80008	CV7 - Asset Replacement
Abernethy, Glendevon & Milnathort reinforcement	33	14.55	38.1	N/A	Feb-30	Y	Increase in network capacity - Reconfigure the Milnathort/Glendevon 33kV network via the addition of 2 new 33kV circuits between Abernethy GSP and Milnathort PSS. Replace both Milnathort transformers with 20/40MVA units LTDS Nodes: 80033 & 80037	CV1 - Primary Reinforcement
Abernethy	33	N/A	N/A	N/A	May-29	N	Reinforce approx. 5.5km of 100mm2 ACSR to 100mm2 Cu OHL between Abernethy GSP and Pole 82. LTDS Nodes: 11629-80047	CV1 - Primary Reinforcement

Alness

Alness GSP Information

This GSP supplies the following primary substations:

- Alness Grid
- Balaldie
- Blackstand
- Contullich
- Crosshills
- Glastullich
- Invergordon
- Lealty
- Muirend
- Nigg
- Peddieston
- Tain

Alness GSP is located within the highland region of the SHEPD licence area and currently supplies approximately 12,404 customers.

Table P2.3 Alness GSP reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Gledfield PSS spur circuits	33	2030	Voltage constraint identified during N-1 outage conditions.	CV1 - Primary reinforcement

			Options include circuit reinforcement, network reconfiguration, installation of STATCOM or voltage regulation assets.	
Blackstand PSS to Muirend PSS circuits	33	2030	Voltage constraint identified during N-1 outage conditions. Options include circuit reinforcement, installation of STATCOM or voltage regulation assets.	CV1 - Primary reinforcement
Balaldie PSS 33/11kV transformer	33/11	2030	Thermal overload of Balaldie primary transformer under intact conditions. Options include transformer reinforcement, install an additional transformer or 11kV load transfer.	CV1 - Primary reinforcement
Glastullich PSS, Balaldie PSS, and Tain PSS 33kV circuits	33	2030	Voltage constraint identified during N-1 outage conditions. Options include circuit reinforcement, installation of STATCOM or voltage regulation assets.	CV1 - Primary reinforcement
Invergordon PSS 33/11kV transformer	33/11	2030	Thermal overload of Balaldie primary transformer under N-1 conditions. Options include transformer reinforcement, new primary substation or 11kV load transfer.	CV1 - Primary reinforcement
Peddieston PSS 33/11kV transformers	33/11	2035	Thermal overload of Peddieston primary transformers under N-1 conditions. Options include transformer reinforcement, new PSS (PMT) or 11kV load transfer.	CV1 - Primary reinforcement
Alness GSP to Crosshills PSS 33kV circuits	33	2035	Thermal overload of Alness GSP to Crosshills PSS 33kV circuits under N-1 conditions. Options include circuit reinforcement, flexibility services, Feed Crosshills directly from Alness	CV1 - Primary reinforcement

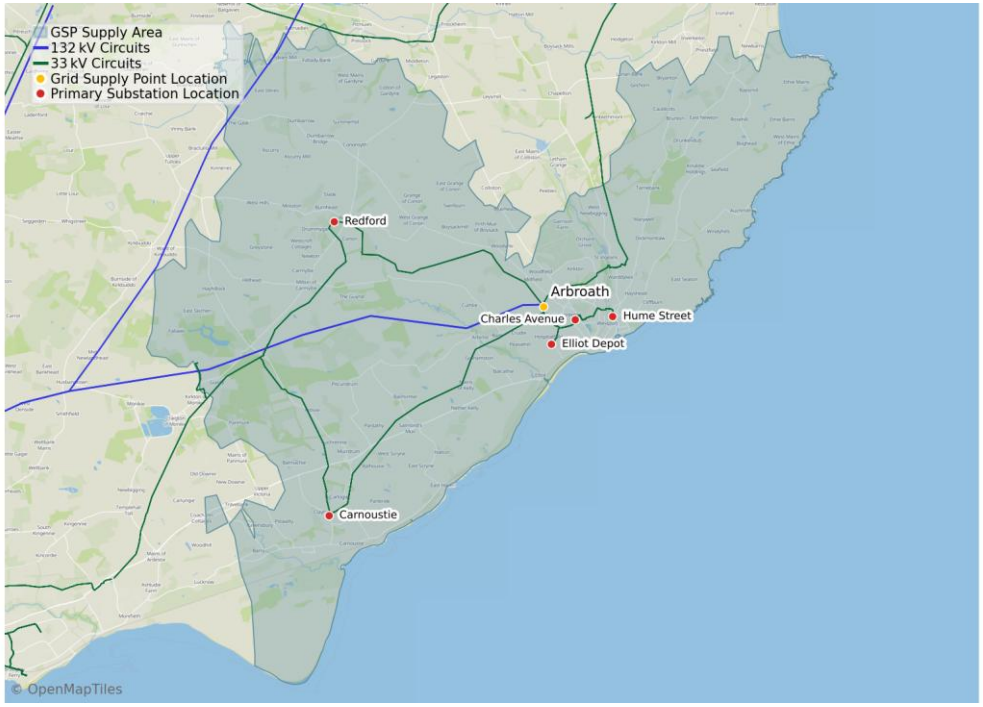
			GSP or 11kV load transfer.	
Gledfield PSS 33/11kV transformer	33/11	2035	Thermal overload of Gledfield primary transformer under N-1 conditions. Options include transformer reinforcement, new primary substation (PMT) or 11kV load transfer.	CV1 - Primary reinforcement
Glastullich to Balaldie 33kV circuits	33	2035	Thermal overload of 33kV circuit between Glastullich, Balaldie and Tain PSS under N-1 conditions. Options include circuit reinforcement, flexibility services, Feed Balaldie PSS directly from Alness GSP or 11kV load transfer between Balaldie/Glastullich.	CV1 - Primary reinforcement

Table P2.4 Alness GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Tain	33/11	14.55	23.28	N/A	Mar-30	N/A	Transformer and Switchboard Replacement - Increase in Transformer capacity - Replace both 7.5/15MVA transformers with 12/24MVA units and replace the 11kV switchboard with 25kA break / 62.5kA make rated switchgear LTDS Nodes: 80105	CV7 - Asset Replacement
Alness 33kV OHL upgrades	33/11	N/A	N/A	N/A	Aug-26	N/A	Upgrade 5.6km of 0.1" Cu OHL to 100mm2 Cu OHL LTDS Nodes: 80136-80120	CV7 - Asset Replacement
Nigg Primary Transformer and OHL upgrades	33	1	29.1	N/A	Oct-28	N	Replace the existing Nigg transformer with a 15/30MVA unit and add a second matching unit, install 2 x 3MVAr Statcoms and replace the 11kV board with	V3 – Connections

							25kA break / 62.5kA make switchgear LTDS Nodes: 80116 Upgrade 9.3km to 150mm2 Cu OHL between Glastullich and Nigg LTDS Nodes: 80115-80116 Upgrade 10.8km to 150mm2 OHL between Alness and Glastullich LTDS Nodes: 80156-80119	

Arbroath



Arbroath GSP Information

This GSP supplies the following primary substations:

- Arbroath Grid
- Carnoustie
- Charles Avenue
- Elliot Depot
- Hume Street
- Redford

Arbroath GSP is located within the Angus region of the SHEPD licence area and currently supplies approximately 20,400 customers.

Table P2.5 Arbroath GSP group reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Charles Avenue PSS transformers	33/11	2030	Thermal overload of transformer during N-1 conditions. Options include transformer reinforcement, flexibility services or 11kV load transfer.	CV1 - Primary reinforcement
Carnoustie PSS Transformers	33/11	2036	Thermal overload of transformer during N-1 conditions. Options include transformer	CV1 - Primary reinforcement

			reinforcement, flexibility services or 11kV load transfer.	

Ardmore

Ardmore GSP Information

This GSP supplies the following primary substations:

- Aird
- Clachan
- Drimore
- Loch Carnan
- Pollachar

Ardmore GSP is located within the Inner Hebrides region of the SHEPD licence area and currently supplies approximately 4,601 customers.

Table P2.6 Ardmore GSP reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Pollachar	33	2031	Replace existing transformers with 2 x 6.3 MVA units and associated 33 kV switchgear works to secure N-1 resilience.	CV1 - Primary reinforcement
Clachan	33/11	2033	Establish a new 35MVA rated 33kV interconnector from Loch Pooltiel switching substation to Clachan to secure N-1 resilience for the South Uist Group.	CV1 - Primary Reinforcement

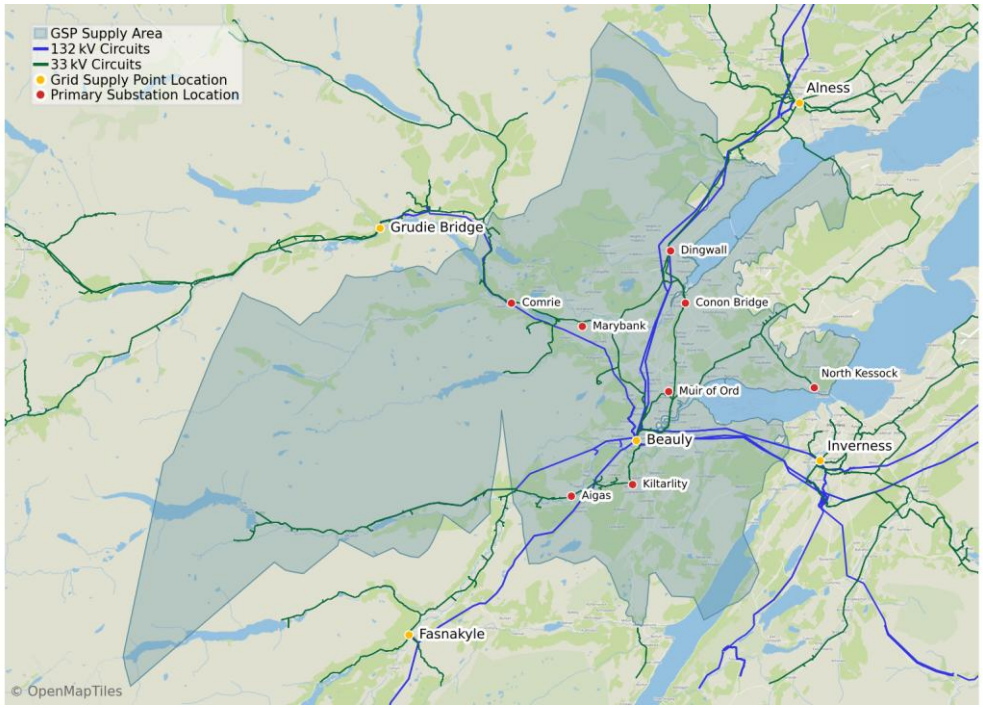
Loch Carnan	33	2033–2040	Establish a second 35 MVA rated interconnector from Loch Pooltiel switching substation to Loch Carnan including replacement of the existing 33kV regulator with 2 x 30MVA units and associated switchgear works to secure N-2 resilience for the South Uist Group.	CV1 - Primary reinforcement

Table P2.7 Ardmore GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Ardmore-Harris OHL	33	N/A	N/A	6.1	Jul-27	Y	Increase network capacity LTDS Nodes: 85650 - 85651	CV1 - Primary Reinforcement
Laxay P2 Compliance	33/11	1	8.19	N/A	Sep-29	Y	Increase network security - Extend Stornoway feeder 6L5 to Laxay PSS, replace the 2.5MVA transformer with a 6.3MVA unit and install a second 6.3MVA transformer LTDS Nodes: 85609	CV1 - Primary Reinforcement
Skye - Uist 33kV Phase 1	33	N/A	N/A	N/A	Dec-26	N/A	Increase in network capacity and security - Replace the existing 33kV submarine cable between Ardmore GSP and Loch Carnan, these works will include: Establish a new 33kV circuit between Ardmore GSP and the proposed location of Loch Poolteil switching station Install 2 x 2.5MVAr reactors at Ardmore GSP and Loch Carnan	CV7 - Asset Replacement

							LTDS Nodes: 20930 - 84001	
Sky - Uist 33k Phase 1A	33	N/A	N/A	N/A	Dec-27	N/A	Establish a new 33kV switching station at Loch Poolteil to connect Ardmore GSP, Dunvegan GSP and Loch Carnan LTDS Nodes: TBC	CV7 - Asset Replacement
Skye - Uist 33kV Phase 2	33	N/A	N/A	N/A	Oct-28	N	Replace the 33kV switchboard at Dunvegan GSP (31.5/78.8kA make/break ratings) Replace the existing cable with a new 33kV circuit between Dunvegan GSP and Loch Carnan, routed via the new switching station established at Loch Poolteil Install a 2.5MVAr reactor at Dunvegan GSP LTDS Nodes: 21030 - TBC	CV1 - Primary Reinforcement

Beauly



Beauly GSP Information

This GSP supplies the following primary substations:

- Aigas
- Beauly Grid
- Comrie
- Conon Bridge
- Conon Falls
- Dingwall
- Kiltarlity
- Marybank
- Muir of Ord
- North Kessock

Beauly GSP is located within the Highland region of the SHEPD licence area and currently supplies approximately 18,103 customers.

Table P2.8 Beauly GSP reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Conon Bridge PSS and Dingwall PSS circuits	33	Ahead of 2030	Voltage N-1; thermal works underway—study to confirm voltage resolution; otherwise size assets for voltage and install regulator/STATCOM.	CV1 - Primary reinforcement

Conon Bridge PSS 33/11kV transformers	33	Ahead of 2030	Thermal overload during N-1 conditions; preferred option is replacement of two 6.25 MVA transformers with 15 MVA transformers.	CV1 - Primary reinforcement
Comrie PSS and Marybank PSS circuits	33	Ahead of 2030	Voltage constraint identified during intact conditions; options include circuit reinforcement and installing regulator or STATCOM.	CV1 - Primary reinforcement
Comrie PSS 33/11kV transformer	33	2035	200kVA PMT with no 11kV interconnection; options include upgrading PMT or adding another transformer and rerouting 11kV network.	CV1 - Primary reinforcement
North Kessock PSS 33/11kV transformer	33	2035	Single 4MVA transformer; options include installing a second transformer or interconnecting 11kV to Inverness GSP across the A9 bridge.	CV1 - Primary reinforcement
Beauly GSP to Marybank/Conon Bridge 33kV circuits.	33	2035	33kV circuit thermal overload during N-1 conditions. Options include circuit reinforcement, flexibility services or network reconfiguration to feed Dingwall PSS from another 33kV feeder during outages.	CV1 - Primary reinforcement
Dingwall PSS 33/11kV transformers	33/11	2035	Thermal overload of both Dingwall PSS transformers during N-1 conditions. Options include Transformer reinforcement or 11kV load transfer to Conon Bridge PSS.	CV1 - Primary reinforcement
Beauly GSP to Muir of Ord 33kV circuits	33	2035	Circuit thermal overload during N-1 conditions. Options include reinforcing the circuits to a minimum 35MVA rating, flexibility services, installing an additional PSS transformer at Muir of Ord PSS to be directly fed from	CV1 - Primary reinforcement

			Beauly GSP or 11kV load transfer to Conon Bridge PSS.	
Achmore generator to Conon Bridge 33kV circuits.	33	2035	Circuit thermal overload during N-1 conditions. Preferred option is to reinforce the 3km overloaded section of circuit.	CV1 - Primary reinforcement

Table P2.9 Beauly GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity	Forecast Completion Date	Published DNOA	Project Description	Driver
Circuit Reinforcement - Muir of Ord	33	N/A	N/A	24	Oct-28	Y	Circuit Reinforcement - Muir of Ord. Increase in circuit capacity LTDS Nodes: 80311 - 80325, 80318 - 80326	CV1 - Primary Reinforcement
Conon Bridge - Circuit Reinforcement and Transformer Replacement	33/11	6.0625	14.55	N/A	Dec-28	N	Conon Bridge - Circuit Reinforcement and Transformer Replacement. Increase in Transformer and 306 circuit capacity - Replace both 5/6.25MVA transformers with 7.5/15MVA units LTDS Nodes: 80322, 80323 - 80321	CV1 - Primary Reinforcement

Braco West

Braco West GSP Information

This GSP supplies the following primary substations:

- Callander
- Crieff
- Dunblane
- Forteviot
- Gleneagles
- Kippen

Braco West GSP is located within the Perthshire and Stirlingshire region of the SHEPD licence area and currently supplies approximately 20,575 customers.

P2.10 Braco West GSP reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Braco West 33kV circuit 8L5 to Crieff	33	2031	Thermal overload of 33kV circuit 8L5 under N-1 conditions with associated voltage issues. Options include circuit reinforcement, new dedicated circuit to feed Creiff PSS, installation of an additional 132kV circuit to St Fillans GSP, followed by installation of an additional 132/11kV and 33/11kV	CV1 - Primary reinforcement

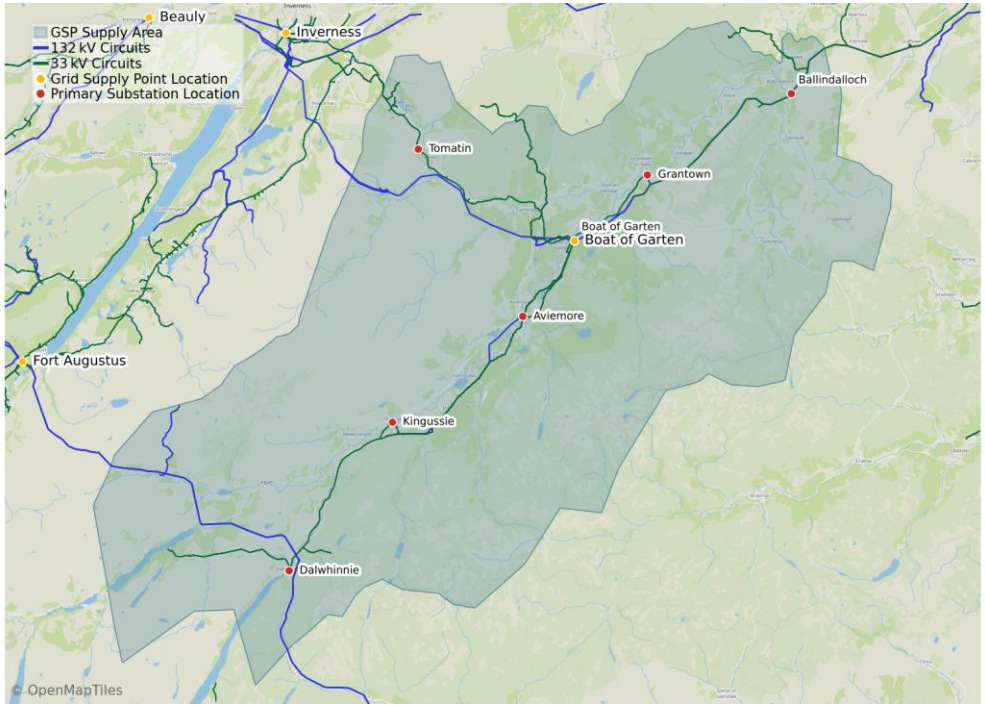
			transformers at St Fillans GSP to remove the need for N-1 backfeed from Braco West 8L5 circuit. The existing 8L5 backfeed then becomes N-2 contingency or installation of voltage regulating assets.	
Callander PSS (2x 33kV transformers)	33	2033	Thermal overload of Callander PSS transformer under N-1 conditions with associated voltage issues. Options include transformer reinforcement, load transfer, new primary, new GSP near Callander, or flexibility services.	CV1 - Primary reinforcement
Dunblane PSS (2x 33kV transformers)	33	2032	Thermal overload of Dunblane PSS transformers under N-1 conditions with future voltage issues. Options include transformer reinforcement, load transfer, new PSS or new GSP near Callander.	CV1 - Primary reinforcement
Braco West 33kV circuit 3L5 (Dunblane / Kippen/Callander)	33	2031	Thermal overload of 33kV circuit 3L5 under N-1 with low voltage from 2031. Options include circuit reinforcement, new GSP near Callander, or flexibility services.	CV1 - Primary reinforcement
Braco West 33kV circuit 5L5 (Gleneagles / Forteviot)	33	2031	Thermal overload of 33kV circuit 5L5 under intact and N-1 conditions with low voltage from 2027. Options include circuit reinforcement, new direct circuit to Gleneagles, voltage compensation, or flexibility.	CV1 - Primary reinforcement
Braco West 33kV circuit 6L5 (Gleneagles)	33	2033	Thermal overload of 33kV circuit 6L5 under N-1 with low voltage from 2027. Options include circuit reinforcement, voltage compensation, or flexibility services.	CV1 - Primary reinforcement

Braco West 33kV circuit 4L5 to Dunblane	33	2034	Thermal overload of 33kV circuit 4L5 under N-1 with low voltage from 2036. Options include circuit reinforcement, voltage compensation, new GSP near Callander, or flexibility.	CV1 - Primary reinforcement

Table P2.11 Braco GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Callander 33kV STATCOM	33	N/A	N/A	4.7	May-28	Y	Alleviate forecast voltage constraints - Reinforce Braco 4L5 and install 2 x 4MVAr STATCOMs at Callander PSS LTDS Nodes: 80516 - 80518, 80523, 80527	CV1 - Primary Reinforcement
Crieff 33/11kV Transformer and Switchboard Replacement	33/11	14.55	23.28	N/A	Oct-28	N/A	Increase in Transformer capacity - Replace both 7.5/15MVA transformers with 12/24MVA transformers and replace the 11kV switchboard with 25kA break / 62.5kA make rated switchgear LTDS Nodes: 80509	CV7 - Asset Replacement
Gleneagles PSS Transformer and 11kV Switchboard Upgrades	11	14.55	23.28	N/A	Feb-27	N	Upgrade Gleneagles 33/11kV PSS Transformers to 12/24MVA and replace the 11kV board with 25kA break / 62.5kA make switchgear LTDS Nodes: 80505 & 80504	CV1 - Primary Reinforcement

Boat of Garten



Boat of Garten GSP Information

This GSP supplies the following primary substations:

- Aviemore
- Ballindalloch
- Boat Of Garten 11Kv
- Boat Of Garten Grid
- Dalwhinnie
- Grantown
- Kingussie
- Tomatin

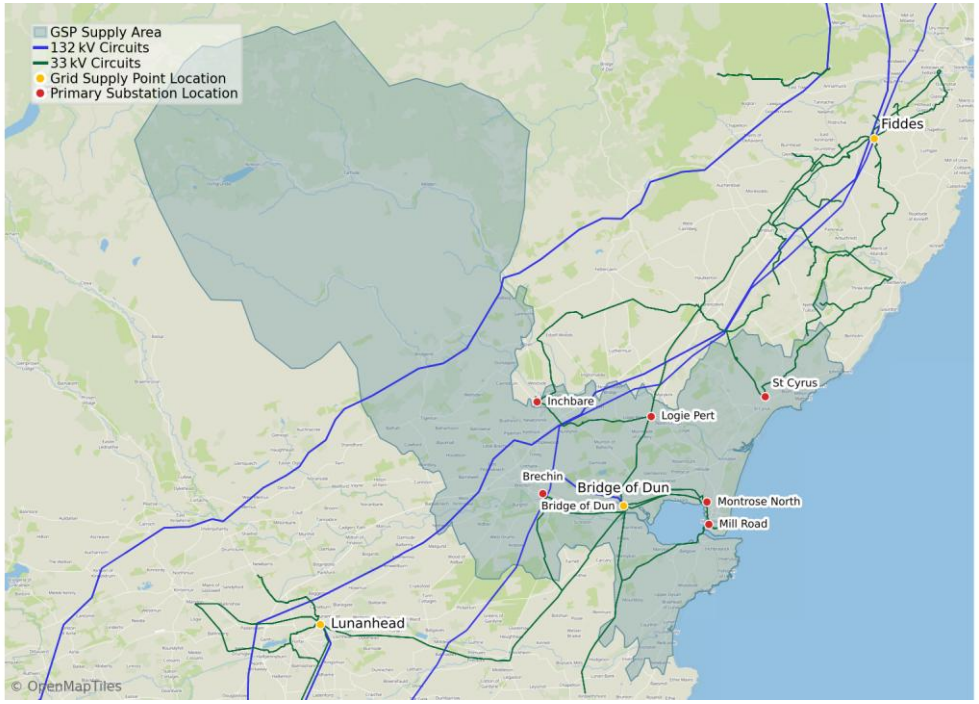
Boat of Garten GSP is located in the highlands region of the SHEPD licence area and currently supplies approximately 11,000 customers.

Table P2.12 Boat of Garten GSP reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Aviemore PSS – Kingussie PSS circuit breaker	33	Ahead of 2030	N-1 voltage constraint on long rural spur; mitigation via circuit reinforcement, 11kV load transfer, or voltage regulation assets.	CV1 - Primary reinforcement
Boat of Garten GSP – Ballindalloch PSS 33kV circuits	33	2035	N-1 voltage constraint on long rural feeder; mitigation via circuit reinforcement, backfeed from	CV1 - Primary reinforcement

			Keith GSP, or voltage regulation assets.	
Ballindalloch PSS transformers	33/11	2035	Intact voltage constraint at PSS transformers; mitigation via transformer uprating or supply reconfiguration.	CV1 - Primary reinforcement
Kingussie PSS transformers	33/11	2035	N-1 thermal overload of both 7MVA transformers; mitigation via transformer uprating, 11kV load transfer, or new PSS.	CV1 - Primary reinforcement

Bridge of Dun



Bridge of Dun GSP Information

This GSP supplies the following primary substations:

- Brechin
- Bridge of Dun 11kv
- Bridge of Dun Grid
- Glaxo
- Inchbare
- Logie Pert
- Mill Rd Montrose
- Montrose North
- St Cyrus

Bridge of Dun GSP is located within the Angus region of the SHEPD licence area and currently supplies approximately 15,600 customers.

Table P2.13 Bridge of Dun GSP reinforcement projects in initial development

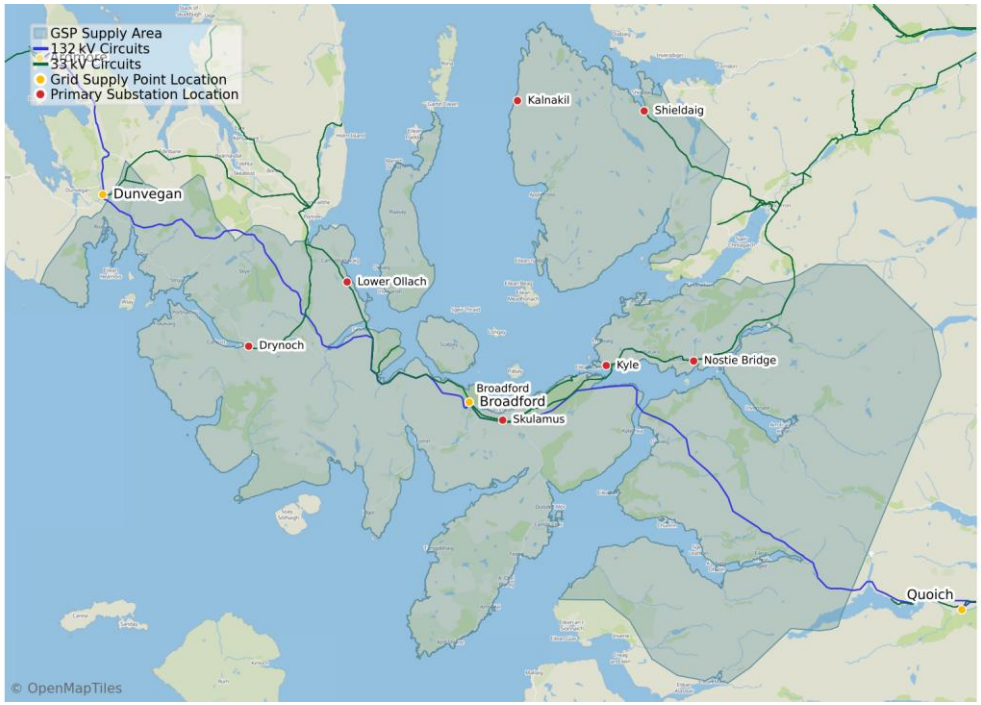
Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
1L5 circuit to Inchbare, Logie Pert and St Cyrus PSS	33	2030	Simultaneous voltage and thermal constraints under N-1 conditions; mitigation via OHL/UG uprating, flexibility, load transfer, or network reconfiguration.	CV1 - Primary reinforcement
Mill Rd Montrose PSS transformers	33/11	2030	N-1 transformer thermal overload; mitigation via	CV1 - Primary reinforcement

			transformer upgrade, flexibility, or 11kV load transfer.	
Brechin PSS Transformers	33/11	2031	N-1 transformer thermal overload; mitigation via transformer upgrade, flexibility, or 11kV network load transfer.	CV1 - Primary reinforcement
2L5 circuit to Mill Rd Montrose PSS	33	2034	N-1 thermal overload; mitigation via OHL uprating, flexibility, or 11kV load transfer.	CV1 - Primary reinforcement
6L5 circuit to Montrose North and Mill RD Montrose PSS	33	2035	N-1 thermal overload; mitigation via UG circuit reinforcement, flexibility, or 11kV load transfer.	CV1 - Primary reinforcement

Table P2.14 Bridge of Dun GSP group reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Logie Pert 11kV switchboard Replacement	11	N/A	N/A	N/A	Dec-26	N/A	Increase in make and break fault ratings to 25kA break / 62.5kA make LTDS Nodes: 80604	CV7 - Asset Replacement
Montrose North - Circuit Reinforcement and Transformer Replacement	33/11	14.55	38.1	N/A	Jan-30	N	Increase in Transformer and circuit capacity - Replace both 7.5/15MVA transformers with 20/40MVA units LTDS Nodes: 80623, 80641 - 80622, 80640 - 80621	CV1 - Primary Reinforcement

Broadford



Broadford GSP Information

This GSP supplies the following primary substations:

- Broadford Local
- Broadford Grid
- Drynoch
- Kalnakil
- Kishornhill
- Kyle
- Lower Ollach
- Nostie Bridge
- Shieldaig
- Skulamus

Broadford GSP is located within the Outer Hebrides and Skye region of the SHEPD licence area and currently supplies approximately 6,433 customers.

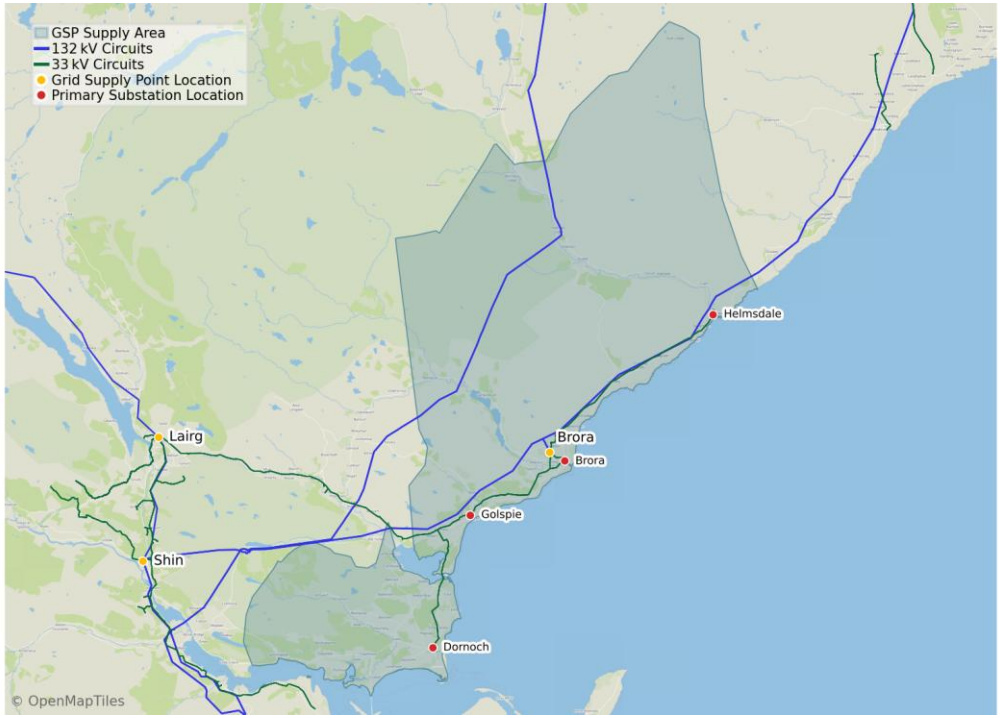
Table P2.15 Broadford GSP reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Lower Ollach	33/11	2033	Establish second 4MVA transformer at Lower Ollach to secure N-1 resilience.	CV15 – Quality of Supply & North of Scotland

Table P2.16 Broadford GSP reinforcement projects in detailed delivery and development

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Need Date	Published DNOA	Project Description	Driver
Broadford 306 Reinforcement	33	N/A	N/A	0.15	Mar-32	Y	Reinforce 33kV OHL between Broadford and Skulamus and replace the Achintee Regulator with a 4MVAr Statcom	CV1 - Primary Reinforcement
New PSS Ruarach / Inverinate Area	33/11	N/A	N/A	19.13	Mar-30	N	Establish a new PSS in the Ruarach / Inverinate area including a 4MVA transformer.	CV1 - Primary Reinforcement
Skulamus - Transformer Reinforcement	33	1	8.19	N/A	Sep-28	Y	Increase in transformer capacity and network security - Add a second 6.3MVA transformer at Skulamus and 33kV circuit to connect this to Broadford feeder 305 LTDS Nodes: 80733	CV1 - Primary Reinforcement
Kyle PSS - Transformer Replacement	33/11	6.5	8.19	N/A	Dec-28	N/A	Increase in Transformer capacity; 5MVA Transformers to be increased to 6.3MVA. Nodes 80724 & 80725	CV7 - Asset Replacement
Broadford 303 Reinforcement	33/11	N/A	N/A	4	Sep-29	Y	Establish a new PSS in the Sconser area including a 4MVA transformer.	CV1 - Primary Reinforcement

Brora



Brora GSP Information

This GSP supplies the following primary substations:

- Benbraggie Mast
- Brora
- Brora Grid
- Dornoch
- Golspie
- Helmsdale

Brora GSP is located within the highlands region of the SHEPD licence area and currently supplies approximately 4,669 customers.

Table P2.17 Brora GSP group reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
4L5 circuit to Golspie and Dornoch PSS	33	2030	Intact voltage constraint on 33kV circuit supplying Golspie and Dornoch; mitigation via conductor uprating, additional 33kV feed, or flexibility services.	CV1 - Primary reinforcement

Table P2.18 Brora GSP group reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
New Dornoch PSS	33/11	N/A	N/A	1.69	Mar-29	Y	Establish a new PSS in the Dornoch area including an 8MVA transformer.	CV1 - Primary Reinforcement
Brora 33kV Switchboard Upgrade	33	N/A	N/A	N/A	Oct-34	N	Replace the 33kV board with 31.5kA break / 78.8kA make switchgear LTDS Nodes: 11330	CV1 - Primary Reinforcement

Burghmuir

Burghmuir GSP Information

This GSP supplies the following primary substations:

- Burghmuir
- Goodlyburn
- Inveralmond
- Redgorton
- Thimblerow

Burghmuir GSP is located within the Perth region of the SHEPD licence area and currently supplies approximately 24,177 customers.

Table P2.19 Burghmuir GSP group reinforcement projects in initial development

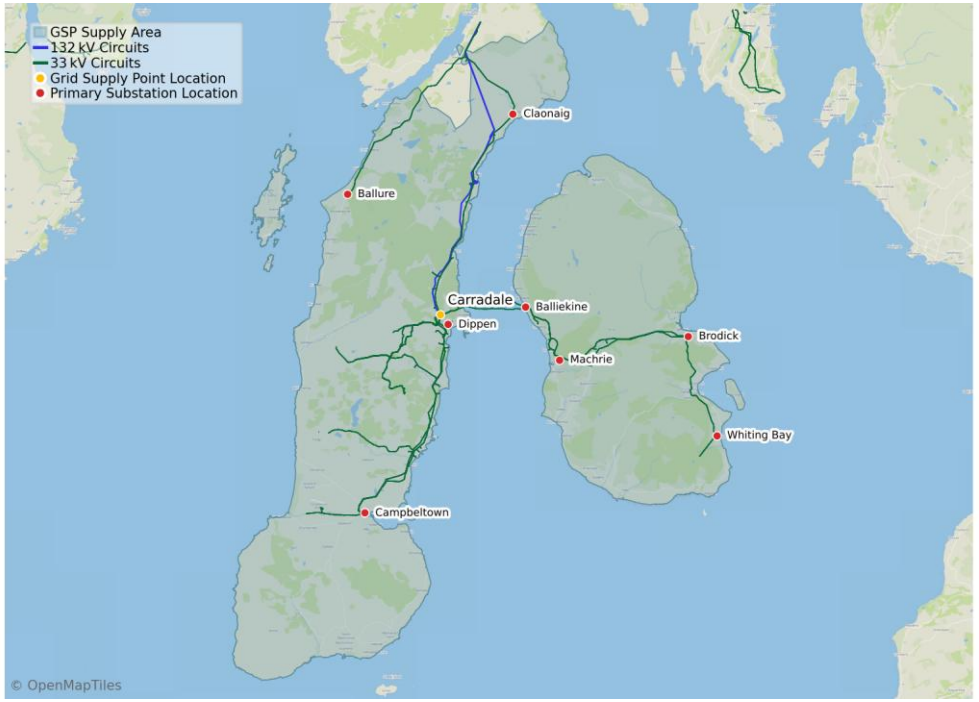
Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Goodlyburn PSS transformer 2	33	2029	Thermal overload of Goodlyburn PSS transformer under N-1 conditions with future intact constraints. Options include transformer reinforcement, load transfer, new PSS, or flexibility.	CV1 - Primary reinforcement
Redgorton PSS transformer 1	33	2035	Thermal overload of Redgorton PSS transformer under N-1 conditions. Options include	CV1 - Primary reinforcement

			transformer reinforcement, load transfer, new PSS, or flexibility.	
Redgorton PSS (33kV Transformer 2)	33/11	2035	Thermal overload of Redgorton PSS transformer 2 under N-1 conditions. Options include transformer reinforcement, additional circuits, 11kV load transfer, new PSS, new GSP with new 33kV interconnecting circuits and flexibility services.	CV1 - Primary reinforcement

Table P2.20 Burghmuir GSP group reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Need Date	Published DNOA	Project Description	Driver
Burghmuir 33kV circuits	33	N/A	N/A	23.6	Jun-28	Y	Increase in network capacity - Replace the Burghmuir to Inveralmond / Redgorton feeders and establish a new 33kV switchboard at Inveralmond PSS LTDS Nodes: 80904 & 80926	CV1 - Primary Reinforcement

Carradale



Carradale GSP Information

This GSP supplies the following primary substations:

- Balliekine
- Ballure
- Brodick
- Campbeltown
- Claonaig
- Dippen
- Machrie
- Whiting Bay

Carradale GSP is located on the Mull of Kintyre in the SHEPD licence area and currently supplies approximately 9,743 customers.

Table P2.21 Carradale GSP group reinforcement projects in initial development

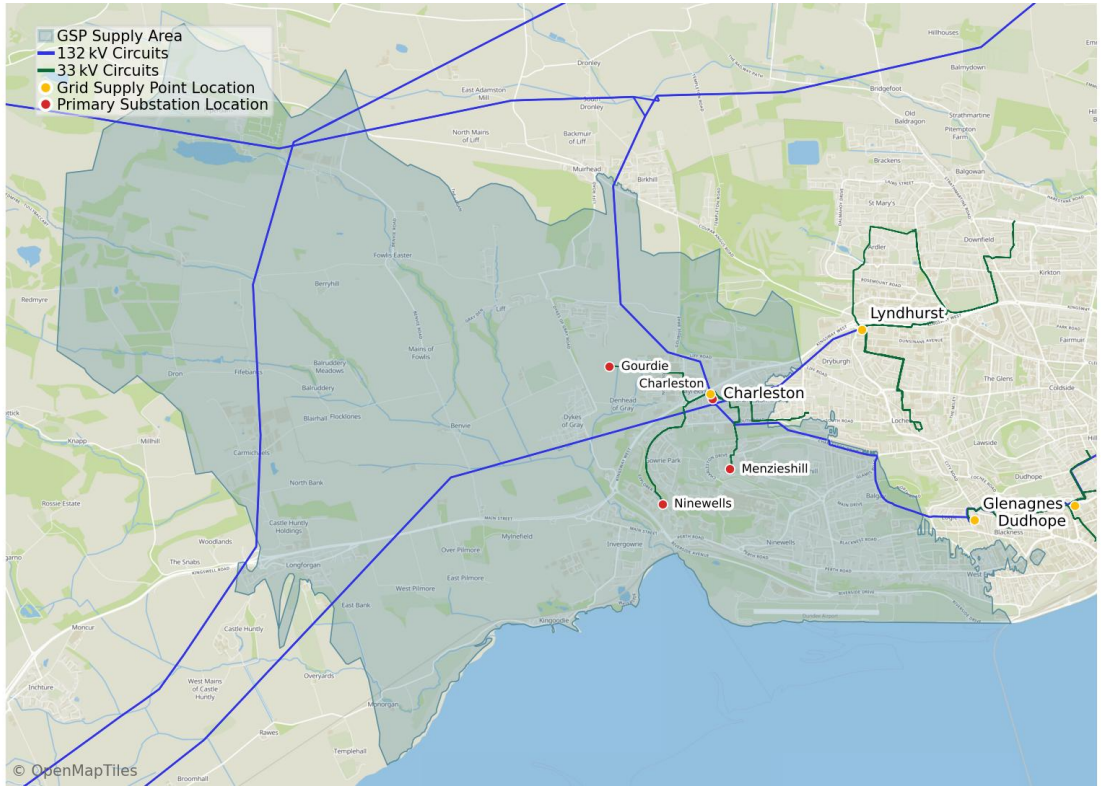
Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Carradale GSP – Port Ellen	33	2030	Establish second 33kV circuit between Carradale GSP and Port Ellen PSS to deliver N-2 resilience and support demand growth.	CV1 – Primary reinforcement
Port Ellen	33	2033	Install auto-close scheme at Port Ellen PSS to improve N-1 resilience for Island Group	CV1 – Primary reinforcement

Port Ann – Knocklearach 33kV circuit	33	2033	New 33kV overhead line, cable and submarine cable (Port Ann GSP – Knocklearach switching station) to improve N-1 resilience for Island Group	CV1 – Primary reinforcement
Port Ann – Port Askaig 33kV circuit	33	2033	Establish 2nd Jura – Islay 33kV circuit and split at PMCB on Jura to create two circuits, to improve N-2 resilience for Island Group	CV1 – Primary reinforcement

Table P2.22 Carradale GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Carradale Circuit Reinforcement	33	N/A	N/A	11.5	Dec-27	Y	Carradale 5L5 - Increase in network capacity LTDS Nodes: 81132 - 81147	CV1 - Primary Reinforcement
Carradale / Port Ellen 33kV Circuits	33	N/A	N/A	N/A	Mar-30	Y	Increase in network security - Establish a new 33kV circuit between Carradale GSP and Port Ellen PSS, a new switchboard at Port Ellen and install 2 x STATCOMs at Port Ellen	CV1 - Primary Reinforcement
Machrie T2 and 11kV switchboard Replacement	11	2.95	3.25	N/A	Mar-28	Y	Increase in network capacity - Establish a 33kV switching station and STATCOMS at Brodick PSS (81106) Install an additional 2.5MVA Tx to match existing unit and and replace the 11kV switchboard with 25kA break / 62.5kA make rated switchgear (81114)	CV1 - Primary Reinforcement
Lochranza PSS	33/11	N/A	N/A	2.3	Jul-28	Y	Establish a new PSS in the Lochranza area including a 2.5MVA transformer.	CV1 - Primary Reinforcement

Charleston



Charleston GSP Information

- Charleston
- Gourdie
- Menzieshill
- Ninewells

Charleston GSP is located in Aberdeenshire in the SHEPD licence area and currently supplies approximately 11,600 customers.

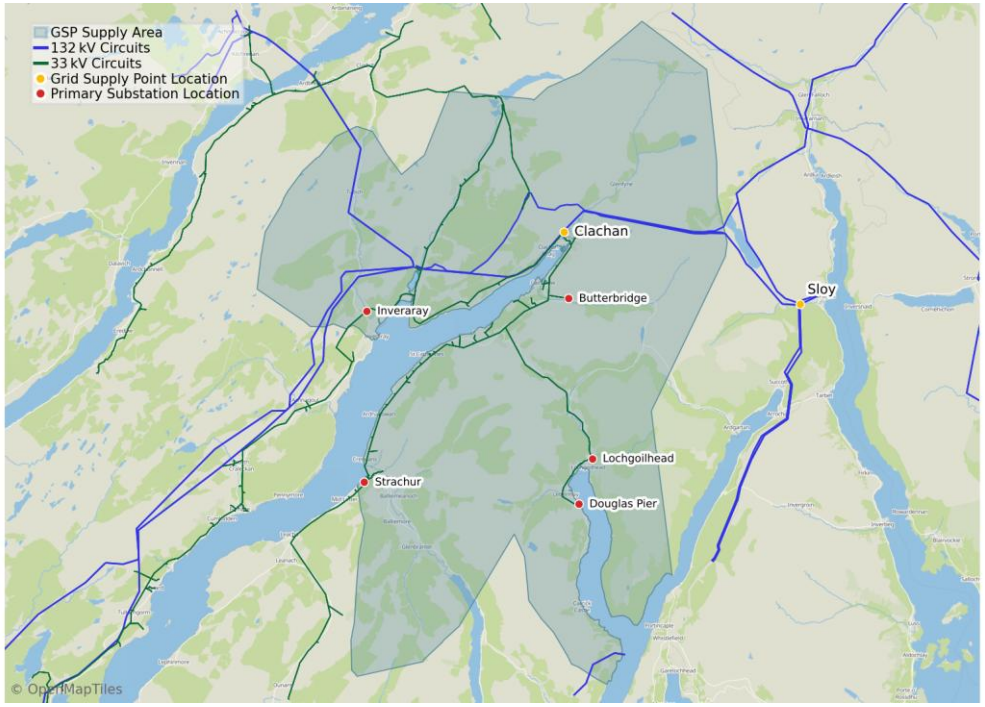
P2.23 Charleston GSP reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Gourdie	33	2032	Intact thermal constraint; mitigation via transformer upgrade or second transformer, flexibility, or 11 network load shedding.	CV1 - Primary reinforcement

Table P2.23 Charleston GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Charleston 33kV Switchboard Replacement	33	N/A	N/A	N/A	Oct-26	N	Charleston PSS 33kV Switchboard Replacement. Replace the 33kV board with 31.5kA break / 78.8kA make switchgear LTDS Nodes: 11589-12030	CV1 - Primary Reinforcement

Clachan



Clachan GSP Information

This GSP supplies the following primary substations:

- Butterbridge
- Clachan Grid
- Douglas Pier
- Inveraray
- Lochgoilhead
- Strachur

Clachan GSP is located in the Argyll and Bute region in the SHEPD licence area and currently supplies approximately 1,200 customers.

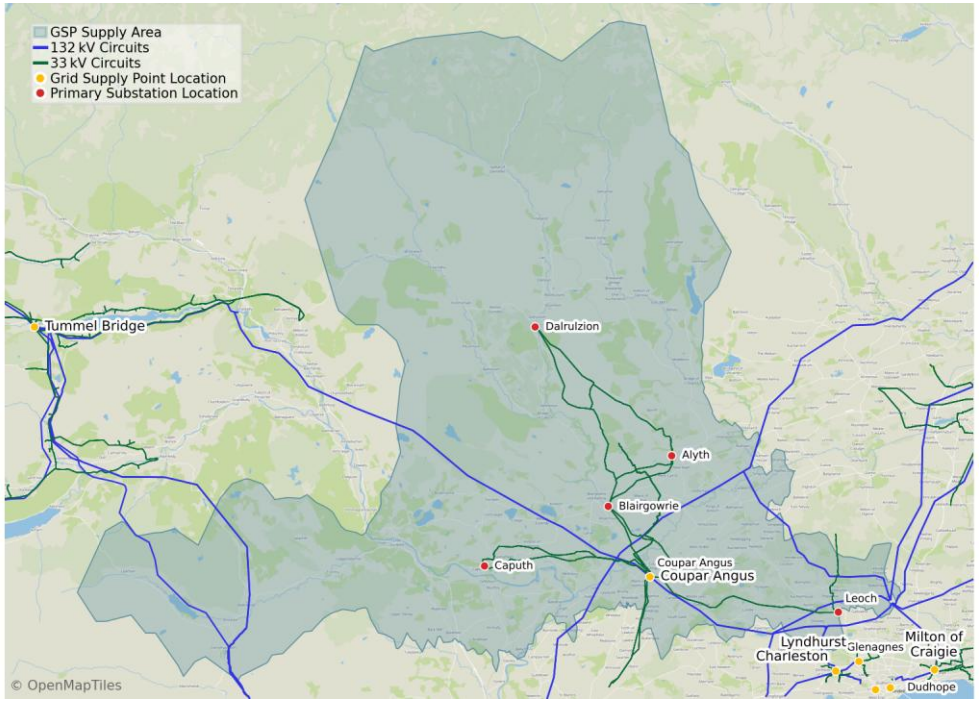
Table P2.24 Clachan GSP group reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Strachur	33/11	2035	Transformer thermal constraint under intact conditions; reinforce existing assets to provide capacity to 2050.	CV1 - Primary Reinforcement

Table P2.25 Clachan GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Inverary - Transformer Replacement	33/11	2.95	3	N/A	Mar-30	Y	Increase in Transformer capacity - Replace the 2.5MVA transformer with a 4MVA unit LTDS Nodes: 81520	CV1 - Primary Reinforcement

Couper Angus



Couper Angus GSP Information

This GSP supplies the following primary substations:

- Alyth
- Blairgowrie
- Caputh
- Couper Angus
- Couper Angus Grid
- Darluzion
- Leoch

Couper Angus GSP is located within the Perth and Angus regions of the SHEPD licence area and currently supplies approximately 16,107 customers.

Table P2.26 Couper Angus GSP group reinforcement projects in initial development

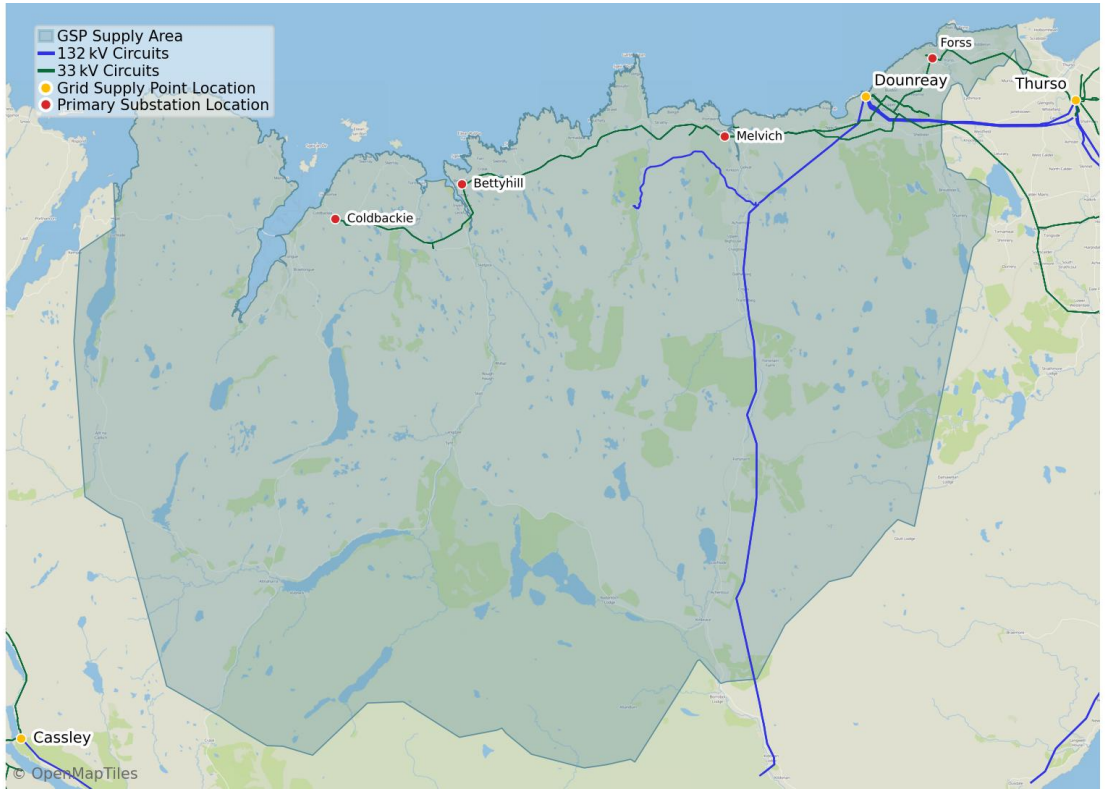
Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Dalrulzion PSS (2x 33kV transformers)	33	2029	Thermal overload of Dalrulzion PSS transformers under N-1 with low voltage from 2034. Options include transformer reinforcement, load transfer, new PSS, new GSP near Dunkeld, or flexibility.	CV1 - Primary reinforcement
Alyth PSS (2x 33kV transformers)	33	2030	Thermal overload of Alyth PSS transformers under N-1 with low voltage from 2034. Options	CV1 - Primary reinforcement

			include transformer reinforcement, load transfer, new PSS, new GSP near Dunkeld, or flexibility.	
Coupar Angus 33kV circuit 2L5 to Blairgowrie	33	2032	Thermal overload of 33kV circuit 2L5 under N-1 with low voltage from 2034. Options include circuit reinforcement, new dedicated circuits to Blairgowrie, new GSP near Dunkeld, voltage compensation, or flexibility.	CV1 - Primary reinforcement
Coupar Angus 33kV circuit 1L5 to Blairgowrie	33	2034	Thermal overload of 33kV circuit 1L5 under N-1 with low voltage from 2034. Options include circuit reinforcement, new dedicated circuits, new GSP near Dunkeld, voltage compensation, or flexibility.	CV1 - Primary reinforcement

Table P2.27 Couper Angus GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Coupar Angus - Transformer and Switchboard Replacement	33/11	8.19	14.55	N/A	Dec-26	N	Increase in Transformer capacity - Replace the 6.3MVA transformer with 7.5/15MVA unit to match T1 and replace the 11kV switchboard with 25kA break / 62.5kA make rated switchgear LTDS Nodes: 81726	CV1 - Primary Reinforcement

Dounreay



Dounreay GSP Information

This GSP supplies the following primary substations:

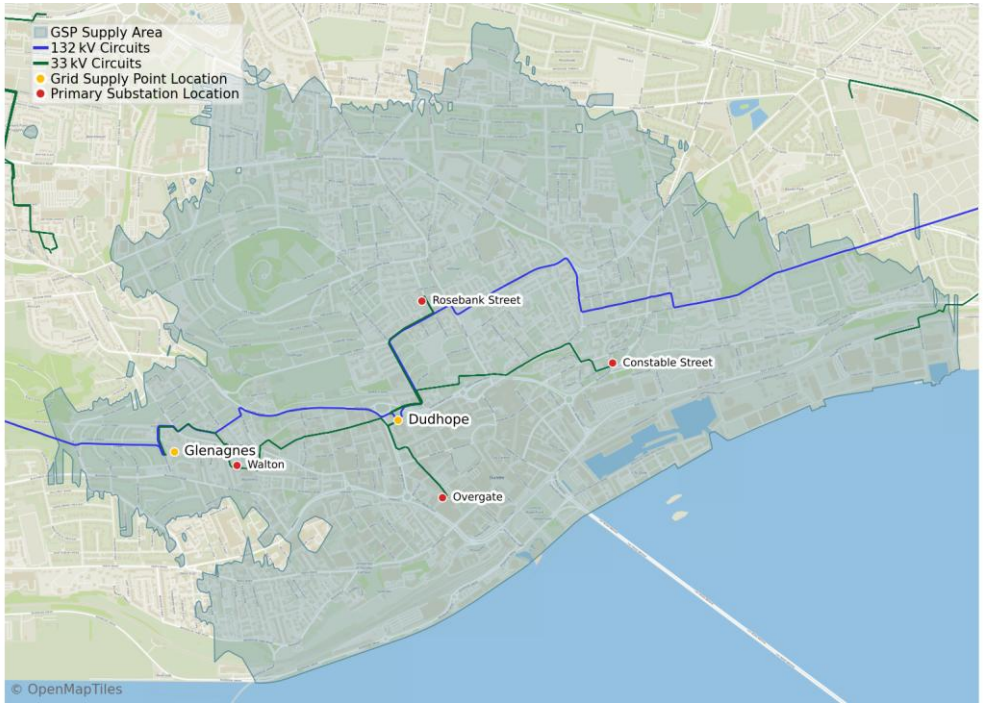
- Bettyhill
- Coldbackie
- Dounreay
- Forss
- Melvich

Dounreay GSP is located within the Highland region of the SHEPD licence area and currently supplies approximately 1,823 customers.

Table P2.28 Dounreay GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Dounreay 33kV Switchboard Upgrade	33	N/A	N/A	N/A	Oct-34	N/A	Replace the 33kV board with 31.5kA break / 78.8kA make switchgear LTDS Nodes: 11585, 13130	CV7 - Asset Replacement

Dudhope



Dudhope GSP Information

This GSP supplies the following primary substations:

- Constable Street
- Overgate
- Rosebank Street
- Walton

Dudhope GSP is located within the Dundee region of the SHEPD licence area and currently supplies approximately 26,955 customers.

Table P2.29 Dudhope GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Overgate PSS Transformer Replacement		36.86	29.1	N/A	Feb-27	N/A	Overgate T1 was disconnected from the network in February 2025 after a fault. The 3 x 15/21MVA transformers are to be replaced with 2 x 15/30MVA units LTDS Nodes: 82012, 82015 & 82016	CV7 – Asset Replacement

Dudhope 33kV Switchboard Replacement		N/A	N/A	N/A	Jun-30	N	Replace the 33kV board with 31.5kA break / 78.8kA make switchgear LTDS Nodes: 11604, 11605, 13330	CV7 – Asset Replacement

Dunoon

Dunoon GSP Information

This GSP supplies the following primary substations:

- Bruchag
- Colintraive
- Dunoon
- Glendaruel
- Innellan
- Kames
- Newton
- Otter Ferry
- Rothesay
- Sandbank

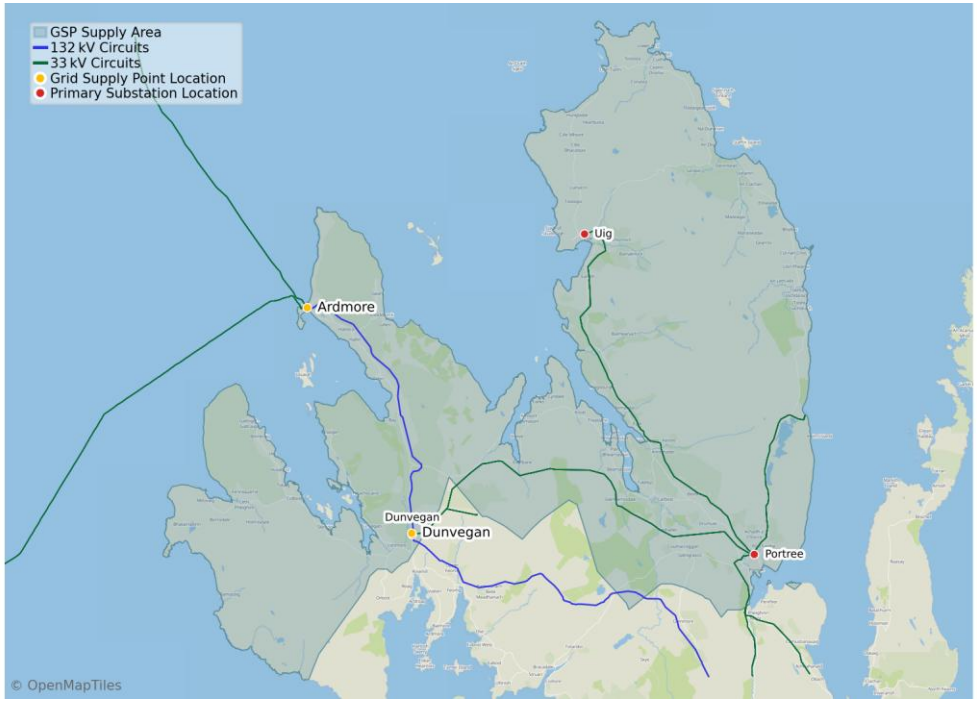
Dunoon GSP is located within the Argyll & West region of the SHEPD licence area and currently supplies approximately 15,867 customers.

Table P2.30 Dunoon GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Dunoon 33kV Circuits	33	N/A	N/A	3.8	May-29	Y	Increase in network capacity (feeders 306 & 307) and establishment of a switchboard including 2x 8MVAr STATCOMs at Craigagoul PSS.	CV1 - Primary Reinforcement

							LTDS Nodes: 82264 - 82265, 82258 - 82267, 82214 & 82216	

Dunvegan



Dunvegan GSP Information

This GSP supplies the following primary substations:

- Drynoch
- Dunvegan Grid
- Portree
- Uig

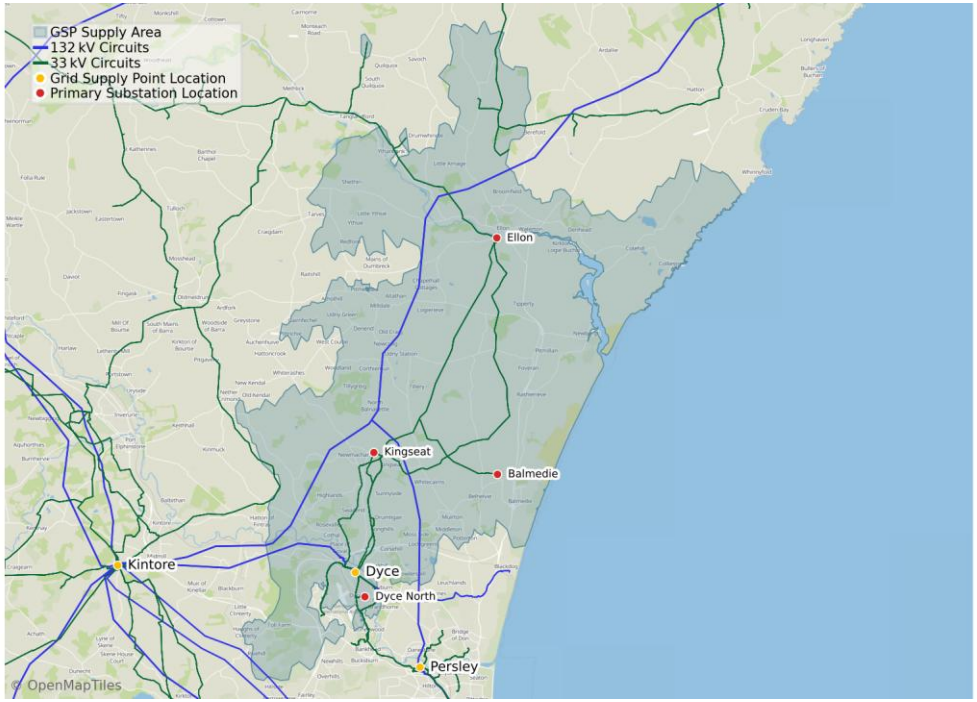
Dunvegan GSP is located within Outer Hebrides and Skye region of the SHEPD licence area and currently supplies approximately 5,438 customers.

Table P2.31 Dunvegan GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Dunvegan 33kV Circuit Reinforcements	33	N/A	N/A	7.95	Nov-26	Y	Increase in network capacity and alleviate forecast voltage constraints - 33kV circuit reinforcement LTDS Nodes: 82313 - 82316	CV1 - Primary Reinforcement
Dunvegan 33kV Circuit	33	N/A	N/A	7.95	Mar-31	Y	Installation of 2x 2.5MVAr STATCOM's at Uig PSS	CV1 - Primary Reinforcement

Reinforcements - Phase 2							and the establishment a new PSS in the Brogaig area including a 4MVA transformer LTDS Nodes: 82308	

Dyce



Dyce GSP Information

This GSP supplies the following primary substations:

- AECC
- Balmedie
- Dyce North
- Ellon
- Harvest Avenue
- Kingseat
- Stoneywood T3

Dyce GSP is located within the Aberdeenshire region of the SHEPD licence area and currently supplies approximately 16,481 customers.

Table P2.32 Dyce GSP reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Circuits to Dyce North PSS	33	Ahead of 2030	N-1 outage of 1L5 or 2L5 causing circuit overload; mitigation via transformer and cable upgrades, flexibility or 11kv network load transfer.	CV1 - Primary Reinforcement
Dyce North PSS transformers	33	Ahead of 2030	N-1 outage of either transformer results in thermal overload; mitigation via transformer reinforcement and flexibility services or load transfer.	CV1 - Primary Reinforcement

Circuit to Balmedie and Ellon PSS	33	Ahead of 2030	N-1 outage of 10L5 leads to thermal and voltage constraints; mitigation via OHL upgrade, flexibility services, new 33kv feeder, or load transfer.	CV1 - Primary Reinforcement
Balmedie PSS transformers	11	2030–2035	N-1 outage of either transformer results in thermal overload; mitigation via transformer upgrade, flexibility services, or 11kV network reconfiguration.	CV1 - Primary Reinforcement

Table P2.33 Dyce GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Circuit Reinforcement Dyce North	33	N/A	N/A	N/A	Mar-28	N	Increase in circuit capacity LTDS Nodes: 82419 - 82404, 82420 - 82405	CV1 - Primary Reinforcement
Kingseat 33/11kV Transformer Replacement	33/11	6.5	14.55	N/A	Aug-26	N	Increase in Transformer capacity - replace both 5MVA transformers with 7.5/15MVA transformers LTDS Nodes: 82409	CV1 - Primary Reinforcement
Ellon 33/11kV Transformer and Switchboard Replacement	33/11	12.125	38.1	N/A	Nov-28	Y	Increase in Transformer capacity - Replace both 10/12.5MVA transformers with 20/40MVA units, replace the 33kV switchgear and replace the 11kV switchboard with 25kA break / 62.5kA make rated switchgear LTDS Nodes: 82426, 82441 & 82427	CV1 - Primary Reinforcement

Elgin

Elgin GSP Information

This GSP supplies the following primary substations:

- Ashgrove
- Bilbohall
- Burghead
- Cumming Street
- Elgin
- Fochabers
- Kinloss
- Lhanbryde
- Lossiemouth

Elgin GSP is located within the highland region of the SHEPD licence area and currently supplies approximately 26,364 customers.

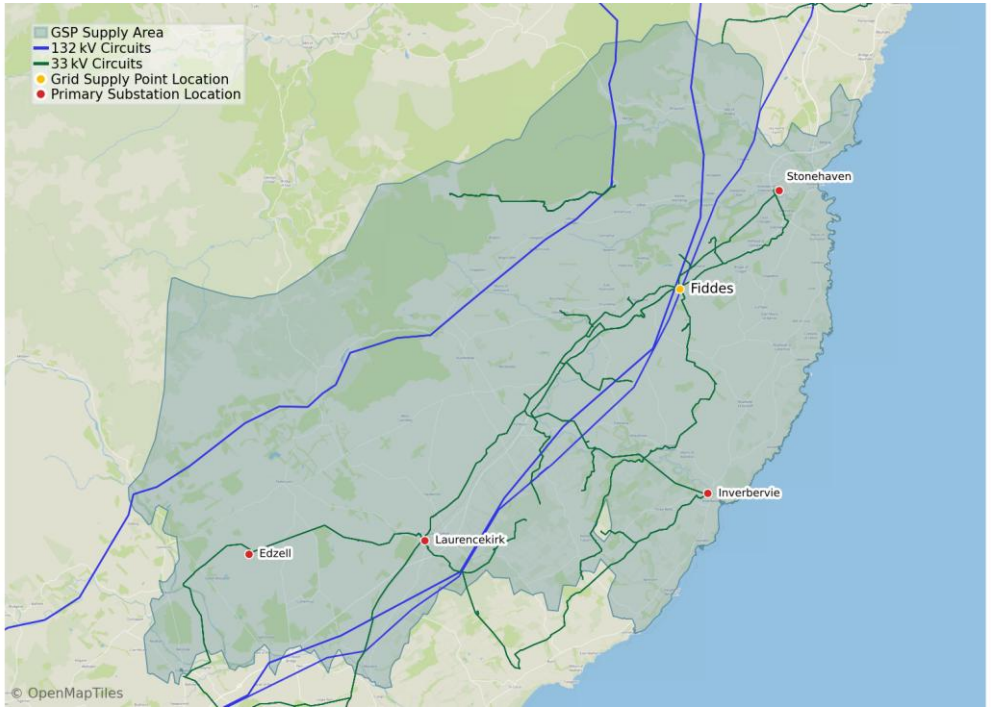
Table P2.34 Elgin GSP group reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Elgin Local PSS	33/11	2036	PSS transformer thermal overload under N-1 conditions; requires transformer reinforcement, load transfer or new PSS.	CV1 - Primary Reinforcement

Table P2.35 Elgin GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Bilbohall Transformer replacement	33	N/A	N/A	N/A	Mar-28	N/A	Replacement of existing Bilbohall transformer to increase asset health - no change to capacity.	CV7 - Asset Replacement
Bilbohall 33/11kV Transformer Replacement	33	14.16	23.28	N/A	Sep-28	N	Increase in Transformer capacity and network security - Install a 33kV circuit between Cumming Street and Bilbohall primaries and add a 2nd matching 12/24MVA transformer LTDS Nodes: 82502	CV1 - Primary Reinforcement
Ashgrove Circuit & Transformer Replacement	33	11.8	38.1	N/A	Jul-28	Y	Increase in network and transformer capacity - Remove Ashgrove PSS from the existing 33kV network via 2 x new 33kV circuits from Elgin GSP, replace T1 with a 20/40MVA transformer and add a 2nd matching 20/40MVA transformer, and replace the 11kV switchboard with 25kA break / 62.5kA make rated switchgear LTDS Nodes: 82513	CV1 - Primary Reinforcement
Elgin Circuit Reinforcement	33	N/A	N/A	0	Mar-29	Y	Elgin 304 - Increase in network capacity LTDS Nodes: 82537 - 82527	CV1 - Primary Reinforcement

Fiddes



Fiddes GSP Information

This GSP supplies the following primary substations:

- Edzell
- Fiddes
- Inverbervie
- Laurencekirk
- Stonehaven

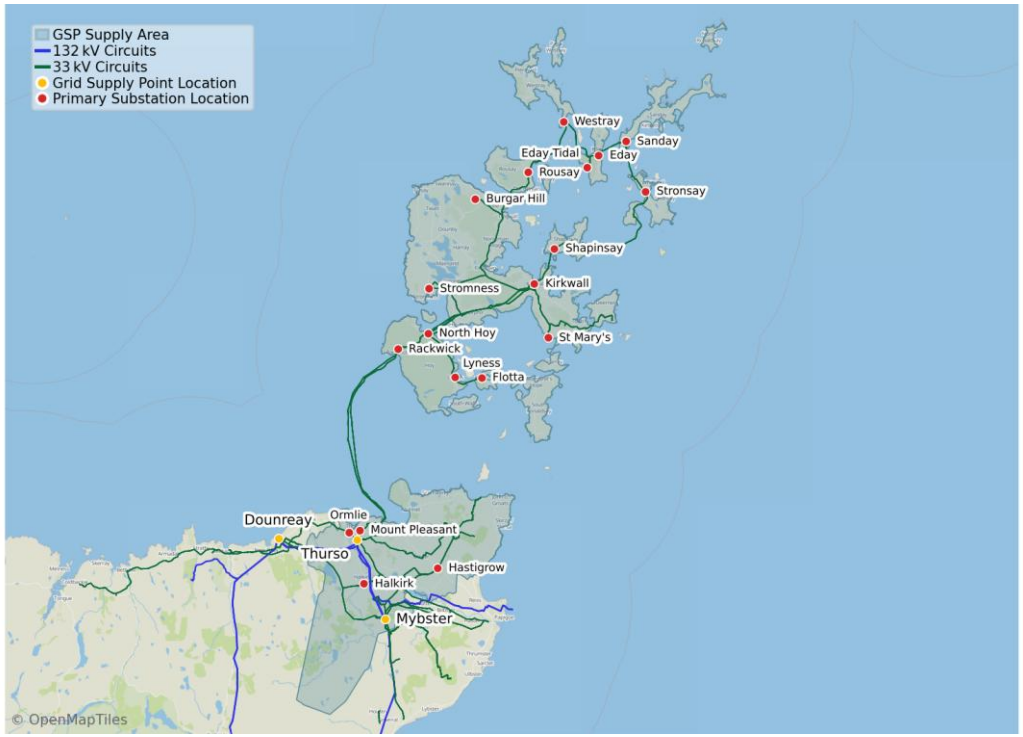
Fiddes GSP is located within the Highland region of the SHEPD licence area and currently supplies approximately 13,200 customers.

Table P2.36 Fiddes GSP group reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
5L5 circuit to Inverbervie, Laurencekirk and Edzell PSS	33	2029	Simultaneous voltage and thermal constraints under intact and N-1 conditions; mitigation via OHL uprating, flexibility services, or 11kV load transfer.	CV1 - Primary reinforcement
1L5 circuit to Stonehaven PSS	33	2032	N-1 thermal constraint; mitigation via OHL uprating, re-	CV1 - Primary reinforcement

			rating subject to survey, flexibility, or 11kV load transfer.	
2L5 circuit to Stonehaven PSS	33	2035	N-1 thermal constraint on UG cable; mitigation via cable upgrade, flexibility, or 11kV load transfer.	CV1 - Primary reinforcement

Finstown



Finstown GSP Information

The Finstown GSP is currently under development. Further details, including supporting imagery will be provided once the design has been finalised.

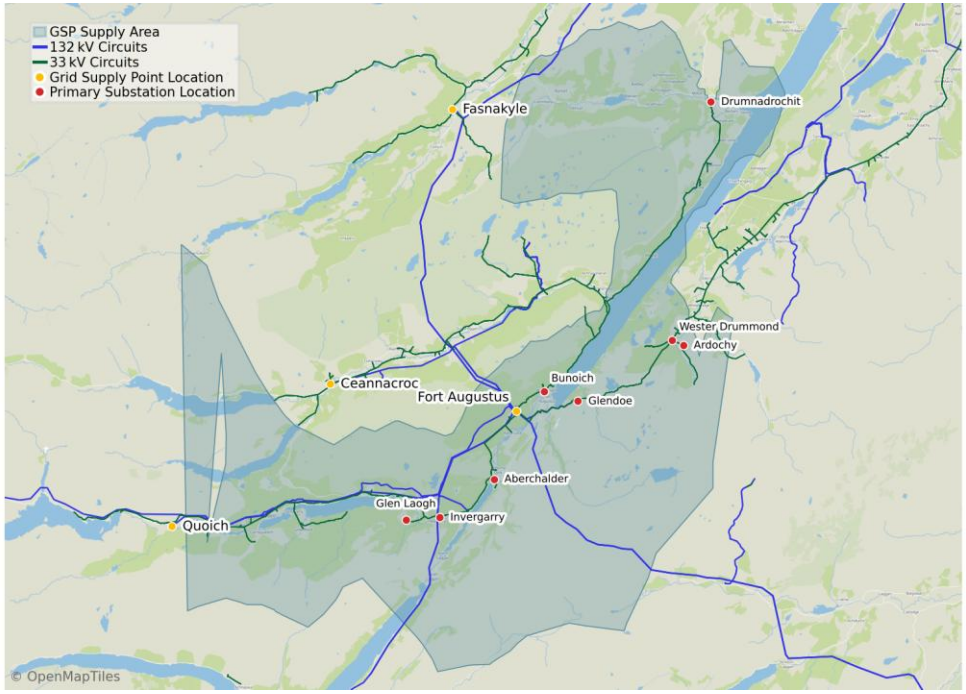
Finstown GSP will be located within the Orkney Islands region of the SHEPD licence area.

Table P2.37 Finstown GSP group reinforcement projects detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	**Published DNOA**	Forecast Completion Date	Project Description	Driver
Hatston PSS	33	N/A	N/A	15	Y	Oct-29	Establish a new PSS in the Hatston area including 2 x 15/30MVA transformers.	CV1 - Primary reinforcement
Finstown GSP Integration	33	N/A	N/A	61.06	Y	Jun-29	Connect the existing 33kV Orkney network to the new Finstown GSP. Increasing	CV1 - Primary reinforcement

							network capacity and facilitating the connection of renewable generation	
St Mary's P2 Compliance	33	N/A	N/A	5.2	Y	Dec-28	Establish a new PSS on South Ronaldsay including 2 x 4MVA transformers.	CV1 - Primary reinforcement

Fort Augustus



Fort Augustus GSP Information

This GSP supplies the following primary substations:

- Aberchalder
- Bunoich
- Drumnadrochit
- Fort Augustus Grid
- Glen Laogh
- Glendoe Primary
- Invergarry
- Wester Drummond

Fort Augustus GSP is located within the Highland region of the SHEPD licence area and currently supplies approximately 2,354 customers.

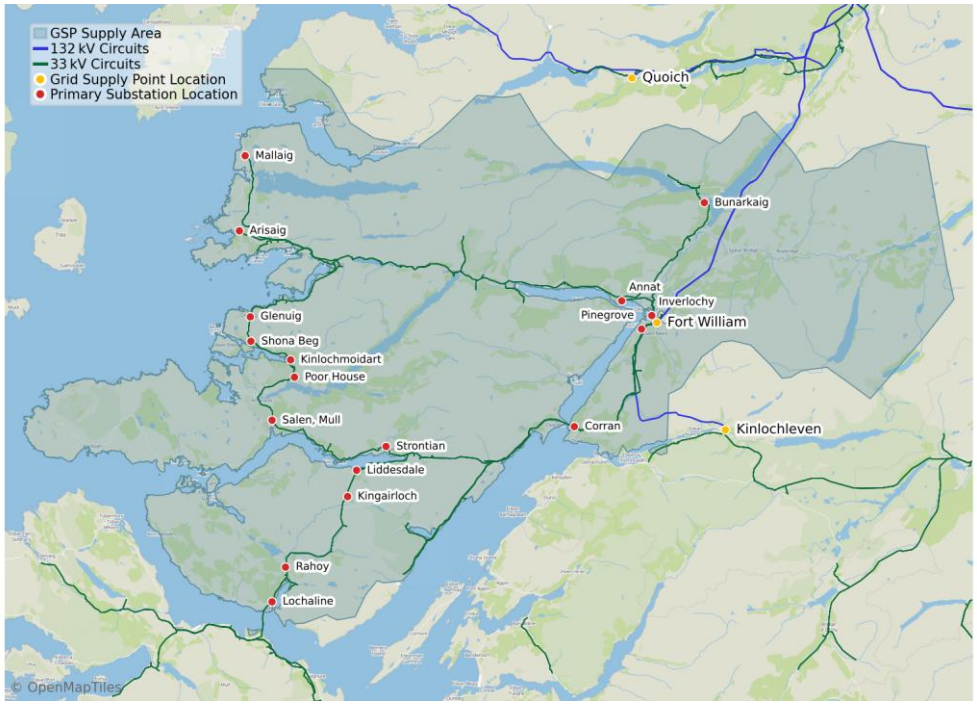
Table P2.38 Fort Augustus GSP group reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Fort Augustus 33kV circuit 2L5 to Drumnadrochit PSS	33	Ahead of 2030	Voltage constraint under intact conditions with low voltage at Drumnadrochit PSS; options include voltage regulation assets, new 33kV circuit, or OHL reinforcement.	CV1 - Primary reinforcement

Table P2.39 Fort Augustus GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Fort Augustus 33kV OHL upgrades	33	N/A	N/A	N/A	Mar-28	N	Upgrade 1.462km of 16mm2 Cu OHL to 32mm2 Cu OHL on Glen Laogh spur LTDS Nodes: 82808-82811	CV1 - Primary Reinforcement
Fort Augustus 33kV Switchboard Upgrade	33	N/A	N/A	N/A	Mar-28	N	Replace the 33kV switchboard with 31.5kA break / 78.8kA make switchgear LTDS Nodes: 13930	CV1 - Primary Reinforcement

Fort William



Fort William GSP Information

This GSP supplies the following primary substations:

- Annat
- Arisaig
- Bunnarkaig
- Corran
- Fishnish
- Glensanda
- Glenuig
- Inverlochy
- Kingairloch
- Kinlochmoidart
- Liddesdale
- Lochaline
- Mallaig
- Pinegrove
- Poor House
- Rahoy
- Salen 2
- Shona Beg
- Strontian

Fort William GSP is located within the Highland region of the SHEPD licence area and currently supplies approximately 11,308 customers.

Table P2.40 Fort William GSP group reinforcement projects in initial development

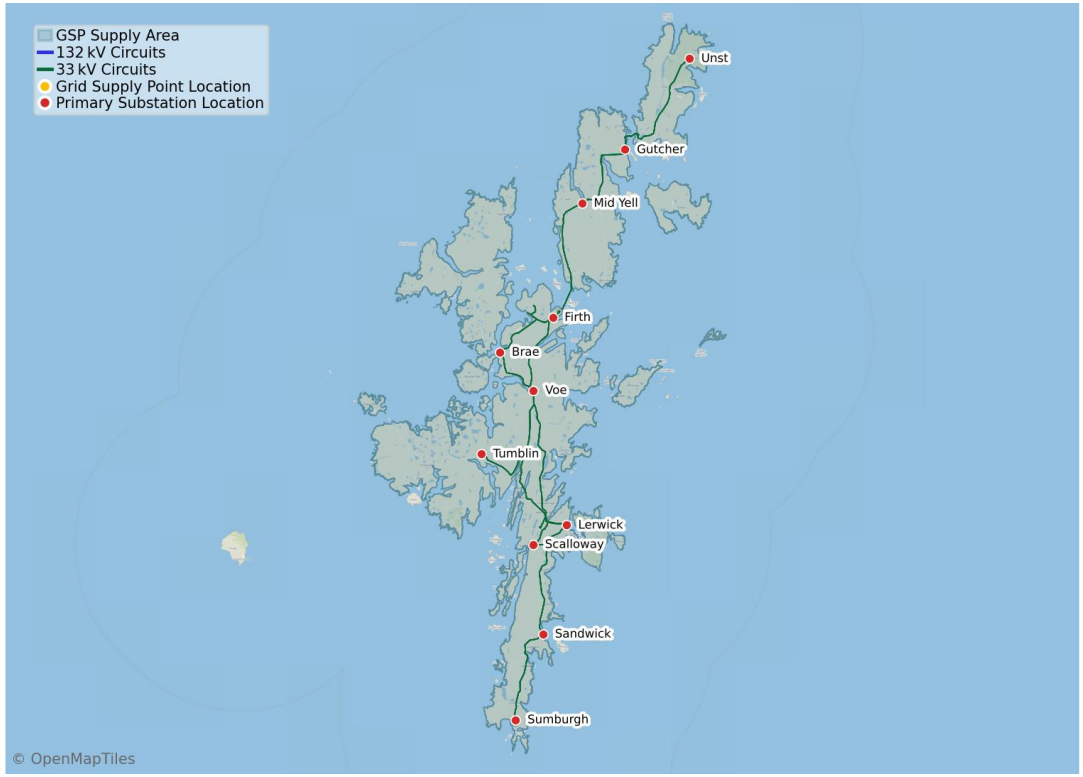
Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Fort William 33 circuit 2L5 (Arisaig via Annat/ Mallaig)	33	Ahead of 2030	Intact voltage constraint with low voltage at Lochailort 33kV regulator; mitigation via circuit reinforcement, additional 33kV circuits, or voltage regulation assets.	CV1 - Primary reinforcement
Fort William 33 circuit 6L5 (Glensanda via Pinegrove)	33	Ahead of 2030	Voltage constraint under intact and N-1 loss of 3L5 including Glensanda subsea section with future thermal constraint Identified between 2030-35; mitigation via circuit reinforcement, circuit reconfiguration to break Pinegrove PSS out of the 3L5 / 6L5 circuits and transfer onto 2x new dedicated 33kV circuits from Fort William GSP, 11kV load transfer, voltage regulation, flexibility services, additional circuits or a future GSP at Loch Shiel.	CV1 - Primary reinforcement

Table P2.41 Fort William GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Fort William 303 & 305 - Loch A'Choire Subsea Cable Replacement	33	N/A	N/A	N/A	Aug-26	N/A	Increase in network capacity LTDS Nodes: 82928 - 82929, 82938 - 82939	CV7 - Asset Replacement
Loch Mudle PSS / Salen 2	33/11	2.95	3.65	N/A	Feb-29	Y	Increase in transformer capacity and network	CV1 - Primary Reinforcement

P2 Compliance							security - Replace the 2.5MVA transformer at Salen 2 with a 4MVA unit (node 82921) and establish a new PSS in the Loch Mudle area including a 4MVA transformer.	
Lochailort STATCOMs	-	N/A	N/A	1.5	Mar-28	Y	Alleviate forecast voltage constraints - At the Lochailort regulator site install a new 33kV switchboard and 2 x 4MVAr STATCOMs LTDS Nodes: 82968, 82915, 82963	CV1 - Primary Reinforcement
Inverlochy - Circuit Reinforcement and Transformer Replacement	33/11	14.55	29.1	N/A	Mar-29	Y	Increase in transformer and circuit capacity - Replace the existing 7.5/15MVA transformers with 15/30MVA units and install 2 new 33kV circuits between Fort William GSP and Inverlochy PSS to remove it from the 1L5 / 2L5 33kV ring LTDS Nodes: 82956	CV1 - Primary Reinforcement
Lochailort STATCOMs	33	N/A	N/A	1.5	Mar-29	Y	Increase in network capacity LTDS Nodes: 82940 - 82936 - 82930	CV1 - Primary Reinforcement

Gremista



Gremista GSP Information

This GSP supplies the following primary substations:

- Brae
- Firth
- Gremista
- Gremista 11kv Switchroom
- Gutcher
- Mid Yell
- Scalloway
- Setter Sandwick
- Sumburgh
- Tumblin
- Unst
- Voe

Gremista GSP is located within the Shetland Islands region of the SHEPD licence area and currently supplies approximately 14,438 customers.

Table P2.42 Gremista GSP group reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Gremista – Voe circuit (16L5)	33	Ahead of 2028	Voltage constraint under N-1 outage with low voltage at Luggies Knowe and pole-mounted transformer connections; future thermal constraint also identified by 2043 requiring circuit reinforcement and voltage control solutions. Options include circuit reinforcement, installation of voltage regulating assets or new GSP in the north of Shetland.	CV1 - Primary reinforcement
Firth	33/11	Ahead of 2028	6 MVA PSS transformer thermally overloaded under intact conditions, Options include new PSS at Scatsta, new GSP in the north of Shetland, new circuits or installing a second transformer at Firth PSS.	CV1 - Primary reinforcement
Gremista GSP	132/33	Ahead of 2030	Gremista grid transformers thermally overloaded under N-1 conditions. Options include additional Grid Transformer at Gremista GSP, New GSP in the north of Shetland, rating enhancement of Grid transformers at Gremista GSP.	CV1 - Primary reinforcement
Sandwick	33/11	Ahead of 2030	4 MVA PSS transformer thermally overloaded under N-1 outage, requiring replacement with higher-rated transformer.	CV1 - Primary reinforcement
Gremista – SVT feeders	33	Ahead of 2032	Thermal and voltage constraints on 33 kV feeders including low voltage at Garth Wind Farm connection. Options include installing additional circuits, circuit reinforcement, voltage	CV1 - Primary reinforcement

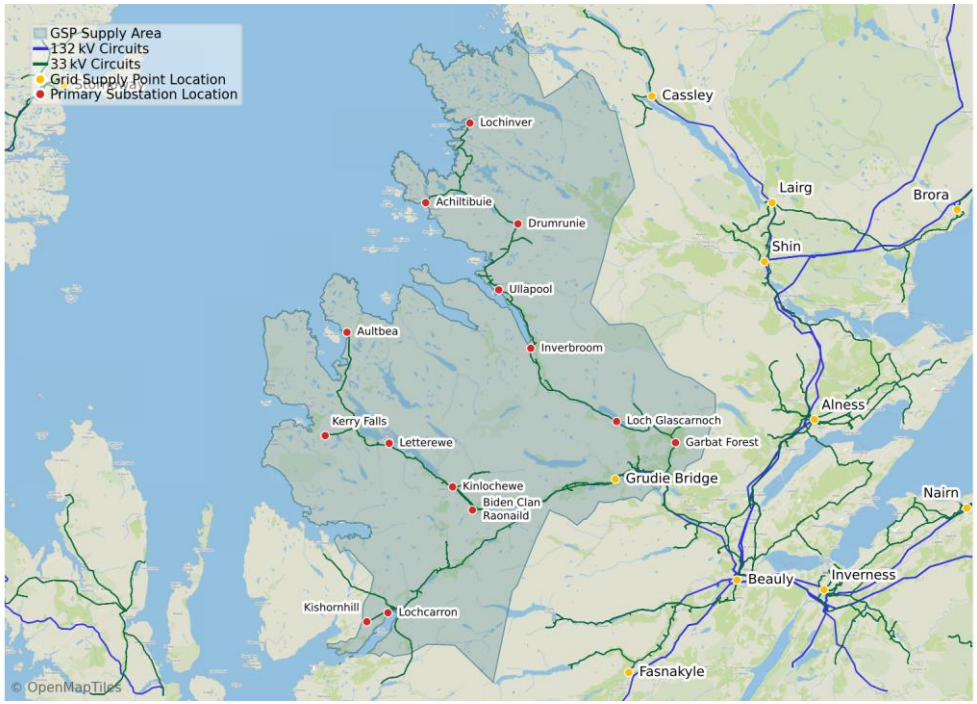
			regulating assets or a new GSP in the north of Shetland.	
Mossbank – Yell subsea circuits	33	Ahead of 2033	Network resilience constraint as Yell and Unst group demand grows beyond 4 MW, requiring N-2 security. Options include installing a new 33kV subsea circuit to Yell or a new GSP in the north of Shetland	CV1 - Primary reinforcement
Brae	33/11	Ahead of 2036	6 MVA PSS transformer thermally overloaded under intact conditions, Options include new PSS at Scatsta, new GSP in the north of Shetland or installing a second transformer at Brae PSS.	CV1 - Primary reinforcement

Table P2.43 Gremista GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Gremista 302 Undergrounding	33	-	-	-	Mar-27	N/A	Increase in network capacity LTDS Nodes: 89901 - 89991	V3 - Connections
Gremista 33kV outdoor circuit breaker replaced with indoor switchroom	33	N/A	N/A	N/A	Jul-26	N/A	Ageing plant replacement; increase in make and break fault ratings to 25kA break / 62.5kA make	CV7 - Asset Replacement
Shetland GSP and 33kV Network Integration Works	33	N/A	N/A	50.5	Nov-26	N	Connect the existing 33kV Shetland network to the new Gremista GSP	CV1 - Primary Reinforcement
33kV North Shetland Strategy	33	N/A	N/A	16	Jun-27	N	Increase in network capacity - Run 2 new 33kV circuits from Gremista GSP to a new 33kV switchboard adjacent	CV1 - Primary Reinforcement

							Sullom Voe and integrate existing sections of feeder 302 (towards Brae, Firth and Shetland Gas Plant) into the new 33kV switchboard. Replace the 33kV switchboard at Mid Yell and install 2x 4MVAr STATCOMs, replace the 33kV switchboard at Firth	
Unst New PSS	33/11	N/A	N/A	N/A	Mar-29	N	Increase in network security - Establish a new PSS in the south Unst area including a 4MVA transformer	CV19 - Resilience
Firth - Circuit Reinforcement	33	N/A	N/A	0	Jun-27	N	Increase in network security - Install a second 33kV circuit to Firth PSS from feeder 303 LTDS Nodes: 89943 - 89942	CV1 - Primary Reinforcement
Scalloway - Setter Sandwick - Sumburgh Reinforcement	33	N/A	N/A	14	Jun-29	Y	Increase in network security and increase transformer capacity - Install a 2nd 33kV circuit to Scalloway & Sandwick primaries. At Scalloway add a 2nd 8MVA transformer, at Setter Sandwick add a 2nd 8MVA transformer LTDS Nodes: 89972 & 89981	CV1 - Primary Reinforcement
Gutcher 11kV Switchgear Replacement	11	N/A	N/A	N/A	Jun-29	N/A	Replace the existing 11kV single-switch arrangement with a new 3 panel 11kV switchboard with 25kA break / 62.5kA make rated switchgear LTDS Nodes: 89950	CV7 - Asset Replacement

Grudie Bridge



Grudie Bridge GSP Information

This GSP supplies the following primary substations:

- Achiltibuie
- Aultbea
- Biden Clan Raonaild
- Drumrunie
- Garbat Forest
- Grudie Bridge
- Inverbroom
- Kerry Falls
- Kinlochewe
- Letterewe
- Loch Dubh
- Loch Glascarnoch
- Lochcarron
- Lochinver
- Ullapool
- Vaich Tunnel GS

Grudie Bridge GSP is located within the Highland region of the SHEPD licence area and currently supplies approximately 5,237 customers.

Table P2.44 Grudie Bridge GSP group reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Achiltibuie PSS 33/11kV transformer	33	Ahead of 2030	(Grouped with Achiltibuie, Drumrunie and Lochinver) All three transformers on the same 33kV spur projected to be overloaded with no 11kV interconnection. There are also voltage constraints at Achiltibuie and Lochinver. Options include transformer reinforcement, new PMT/substation, 11kV reconfiguration, flexibility and STATCOMs for voltage regulation.	CV1 - Primary reinforcement
Drumrunie PSS 33/11kV transformer	33	Ahead of 2030	(Grouped with Achiltibuie, Drumrunie and Lochinver) All three transformers on the same 33kV spur projected to be overloaded with no 11kV interconnection. There are also voltage constraints at Achiltibuie and Lochinver. Options include transformer reinforcement, new PMT/substation, 11kV reconfiguration, flexibility and STATCOMs for voltage regulation.	CV1 - Primary reinforcement
Lochinver PSS 33/11kV transformer	33	Ahead of 2030	(Grouped with Achiltibuie, Drumrunie and Lochinver) All three transformers on the same 33kV spur projected to be overloaded with no 11kV interconnection. There are also voltage constraints at Achiltibuie and Lochinver. Options include transformer reinforcement, new PMT/substation, 11kV reconfiguration, flexibility and	CV1 - Primary reinforcement

			STATCOMs for voltage regulation.	
Lochcarron PSS spur circuits	33	Ahead of 2030	Voltage constraint during N-1 conditions. Options include circuit reinforcement and installation of STATCOM or voltage regulator.	CV1 - Primary reinforcement
Inverbroom PSS 33/11kV transformer	33	Ahead of 2030	Thermal overload of 200kVA PMT during intact conditions with no 11kV interconnection; options include upgrading to 300kVA PMT or adding an additional PMT; ground-mounted substation to facilitate 11kV load transfer.	CV1 - Primary reinforcement
Kinlochewe PSS 33/11kV transformer	33	Ahead of 2030	Voltage constraint during N-1 conditions. Options include upgrading backfeed circuit and reinforcing regulator or installing STATCOM.	CV1 - Primary reinforcement

Table P2.45 Grudie Bridge GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Achiltibuie - NOSR	11	N/A	N/A	N/A	Apr-27	Y	New 11kV Interconnector	CV19 - Resilience
Ullapool PSS - T1 Replacement	33/11	1	5.2	N/A	Mar-29	N/A	Increase in Transformer capacity - Replace T1 transformer with a 4MVA unit LTDS Nodes: 83324	CV7 - Asset Replacement
Grudie Bridge 1L5 & 3L5 Circuit Reinforcement (Voltage)	33	N/A	N/A	1.43	Mar-29	Y	Alleviate forecast voltage constraints - At Achiltibuie PSS install 2 x 4MVAr STATCOMs LTDS Nodes: 83334	CV1 - Primary Reinforcement

Harris

Harris GSP Information

This GSP supplies the following primary substations:

- Stockinish
- Tarbert

Harris GSP is located on the Outer Hebrides within the SHEPD licence area and currently supplies approximately 1,627 customers.

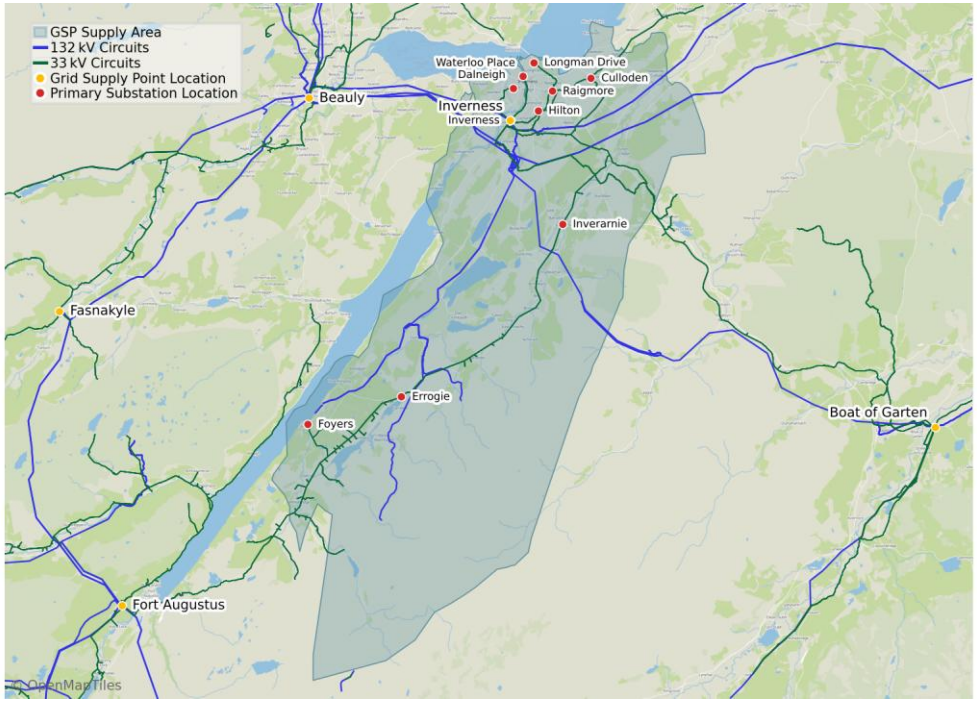
Table P2.46 Harris GSP reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Harris / Ardmore Demand Group	TBC	2033	Establish two new Ardmore–Harris interconnectors (voltage level to be confirmed) to secure N-2 resilience and support long-term demand growth.	CV1 - Primary reinforcement

Table P2.48 Harris GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Tarbert & Stockinish (NoSR)	33	N/A	N/A	N/A	Mar-28	N	Increase in network security - Install a new 33kV circuit breaker at Harris Grid and run a new 33kV circuit to Stockinish PSS to remove it from Feeder 302	CV15 - QoS and North of Scotland Resilience

Inverness



Inverness GSP Information

This GSP supplies the following primary substations:

- Culloden
- Dalneigh
- Errogie
- Foyers
- Hilton
- Inverarnie
- Inverness
- Longman Drive
- Raigmore
- Waterloo Place

Inverness GSP is located within the Highland region of the SHEPD licence area and currently supplies approximately 37,100 customers.

Table P2.47 Inverness GSP reinforcement projects in initial development

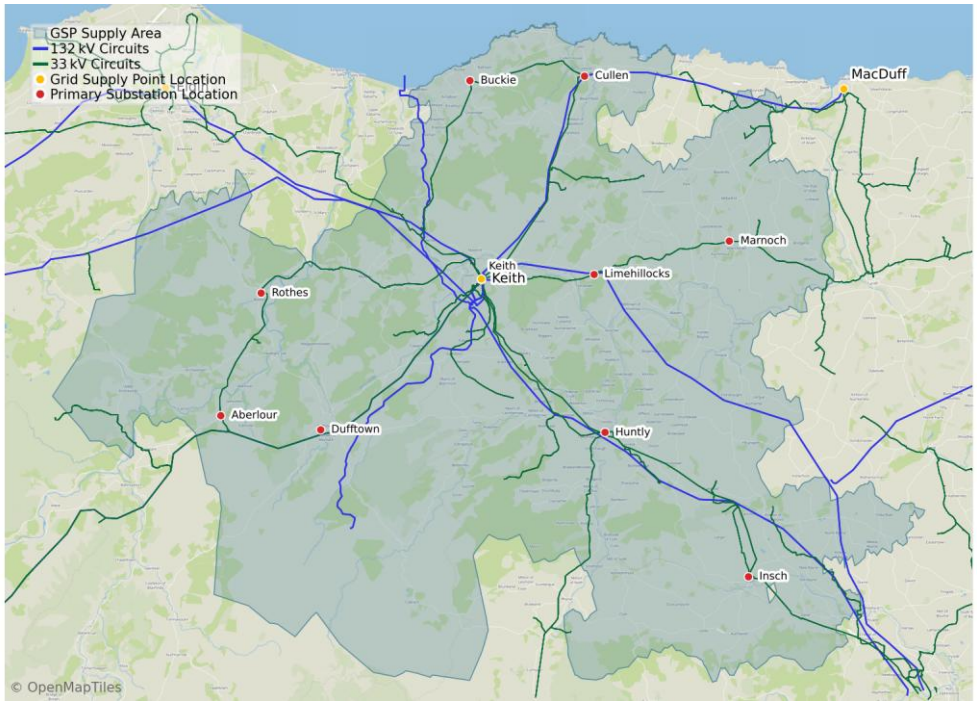
Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Inverness GSP – Dalneigh PSS 33kV section	33	Ahead of 2030	Intact thermal overload on mixed OHL/cable section; mitigation via circuit reinforcement, flexibility, or load transfer.	CV1 - Primary reinforcement

Longman Drive PSS – Culloden PSS	33	Ahead of 2030	N-1 thermal overload on 33 kV cable sections; mitigation via staged reinforcement, flexibility, or load transfer.	CV1 - Primary reinforcement
Inverness GSP – New Raigmore PSS 33kV circuits	11	Ahead of 2030	N-1 thermal overload with future voltage constraint; mitigation via circuit reinforcement or 11 kV load transfer.	CV1 - Primary reinforcement
Inverness GSP – Inverarnie / Culloden tee 33kV section	33	Ahead of 2030	N-1 thermal overload on mixed-rated cable sections; mitigation via reinforcement or transfer to Nairn / Fort Augustus GSPs.	CV1 - Primary reinforcement
Inverarnie / Culloden tee – Culloden PSS 33kV section	33	Ahead of 2035	N-1 thermal overload on downstream 33 kV sections; mitigation via reinforcement or partial supply from Nairn GSP.	CV1 - Primary reinforcement
Longman Drive PSS transformers.	33/11	Ahead of 2036	N-1 voltage constraint identified. Options include upgrading the circuit feeding Longman Drive PSS, potential upgrades between Inverness GSP and Waterloo Place PSS could resolve this by reducing Impedance or Install a voltage regulator or STATCOM	CV1 - Primary reinforcement
Errogie PSS Transformers **Dunmaglass PSS Transformers** **Inverarnie PSS transformers.** **33kV circuits (Inverarnie-Dunmaglass-Errogie)**	33/11	Ahead of 2036	N-1 voltage constraint identified on the 33kV spur to Inverarnie-Dunmaglass-Errogie PSS. It is proposed to resolve all of these constraints together in an efficient approach. Options include circuit reinforcement at various sections of the circuit, flexibility services, Installation of a voltage regulator or STATCOM along the circuit or 11kV load transfer onto Fort Augustus GSP network.	CV1 - Primary reinforcement

Table P2.48 Inverness GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Waterloo Place - Transformer & Switchboard Replacement	33	21.16	38.1	N/A	Aug-27	Y	Increase in Transformer capacity - Replace the 23MVA transformers with 20/40MVA units and replace the 11kV switchboard with 25kA break / 62.5kA make rated switchgear LTDS Nodes: 83519	CV1 - Primary Reinforcement
Raigmore - New PSS & Circuit Reinforcment	33	N/A	N/A	34	Aug-29	Y	Establish new 33kV circuits from Inverness GSP to a new PSS south of Raigmore PSS including 2 x 15/30MVA transformers, extend these new 33kV circuits to the existing Raigmore PSS. LTDS Nodes: 83544 - 83509, 83506 - 83546	CV1 - Primary Reinforcement
Raigmore - Culloden circuit reinforcement	33	N/A	N/A	N/A	Jul-26	Y	Increase in circuit capacity LTDS Nodes: 83503 - 83506	CV1 - Primary Reinforcement

Keith



Keith GSP Information

This GSP supplies the following primary substations:

- Aberlour
- Buckie
- Cullen
- Dufftown
- Fochabers
- Huntly
- Insch
- Keith
- Limehillocks
- Marnoch
- Rothes

Keith GSP is located within the North Caledonia region of the SHEPD licence area and currently supplies approximately 26,381 customers.

Table P2.49 Keith GSP reinforcement projects in initial development

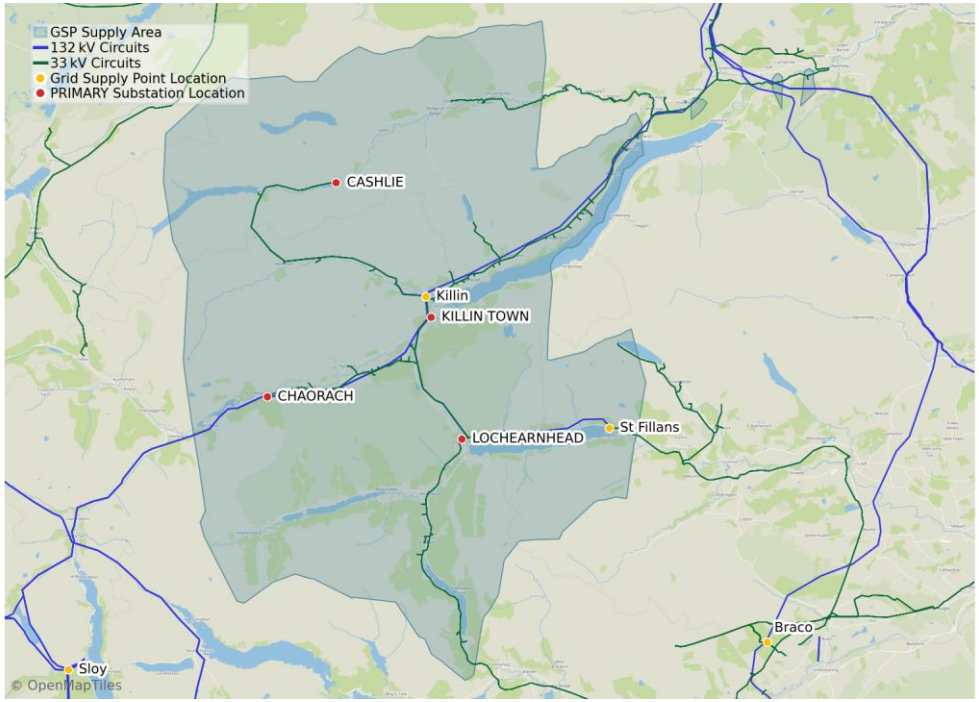
Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Rothes PSS	33/11	2034	PSS transformer thermal overload under N-1 conditions; Options include circuit reinforcement, a new PSS,	CV1 - Primary reinforcement

			flexibility services or 11kV load transfer.	
Aberlour PSS	33/11	2026	PSS transformers thermal overload under N-1 conditions; Options include circuit reinforcement, a new PSS, flexibility services or 11kV load transfer.	CV1 - Primary reinforcement
Insch PSS	33/11	2028	PSS transformer thermal overload under N-1 conditions; Options include circuit reinforcement, a new PSS, flexibility services or 11kV load transfer.	CV1 - Primary reinforcement

Table P2.50 Keith GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Insch 33/11kV Transformer and Switchboard Replacement	33/11	7.275	14.55	N/A	Dec-27	N	Increase in Transformer capacity - Replace the 23MVA transformers with 20/40MVA units and replace the 11kV switchboard with 25kA break / 62.5kA make rated switchgear. Transfer Insch PSS to Rothienorman GSP. LTDS Nodes: 83519	CV1 - Primary Reinforcement
Keith 1 33kV circuits	33	N/A	N/A	1	Mar-29	Y	Increase in network capacity - Reconfigure network with new circuit to Buckie, shed Cullen from ring and reinforce existing circuits LTDS Nodes: 83641 & 83645	CV1 - Primary Reinforcement

Killin



Killin GSP Information

This GSP supplies the following primary substations:

- Ardchyle
- Cashlie
- Chaorach
- Killin Grid
- Killin Town
- Lochearnhead
- Loch Lubnaig

Killin GSP is located within the Perthshire region of the SHEPD licence area and currently supplies approximately 1,783 customers.

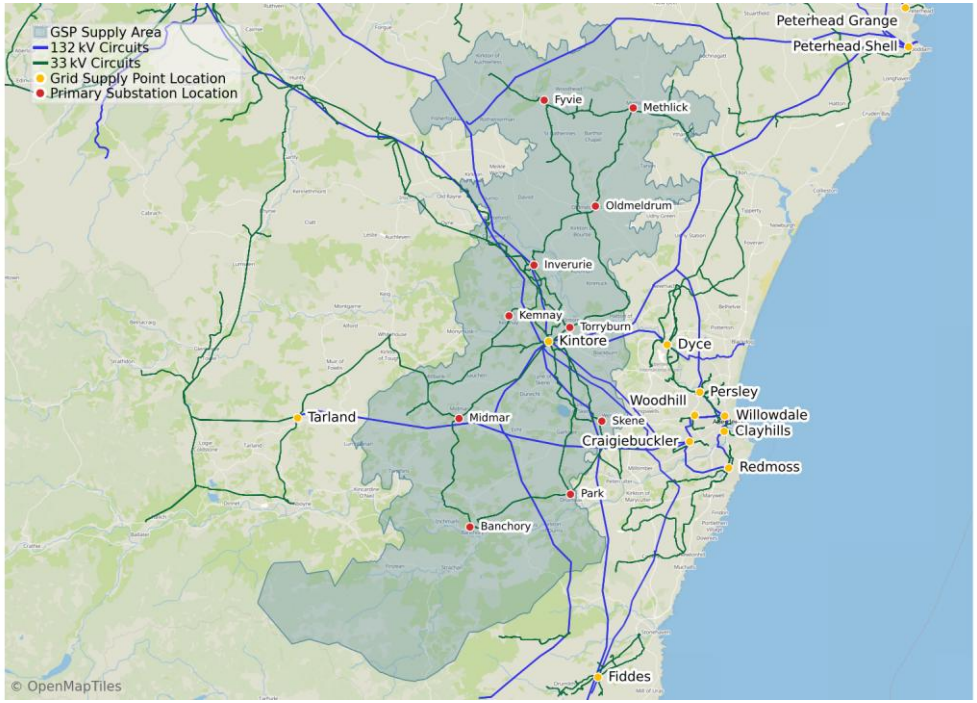
Table P2.51 Killin GSP group reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Killin 33 circuit 2L5	33	2027	Low voltage during N-1 condition from 2027 with future thermal overload from 2033. Options include circuit reinforcement, new GSP near Callander, voltage compensation assets, or flexibility services.	CV1 - Primary reinforcement

Table P2.52 Killin GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Lochay 33/3.3kV Transformer Lochay Power Station	33/3.3	N/A	N/A	N/A	Dec-27	N/A	Replace the existing 2.5MVA transformer with a 5MVA unit and install a new 3 panel 33kV switchboard Node: 83718	CV7 - Asset Replacement

Kintore



Kintore GSP Information

This GSP supplies the following primary substations:

- Banchory
- Fyvie
- Inverurie
- Kemnay
- Methlick
- Midmar
- Oldmeldrum
- Park
- Skene
- Torryburn

Kintore GSP is located within the Aberdeenshire region of the SHEPD licence area and currently supplies approximately 33,997 customers.

Table P2.53 Kintore GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Park PSS	33	2032	Overload of transformer under intact conditions; requires transformer uprating or installation of second transformer.	CV1 - Primary reinforcement
Park PSS – 33 kV circuits	33	2032	33kV circuit overload under N-1 conditions due to load growth;	CV1 - Primary reinforcement

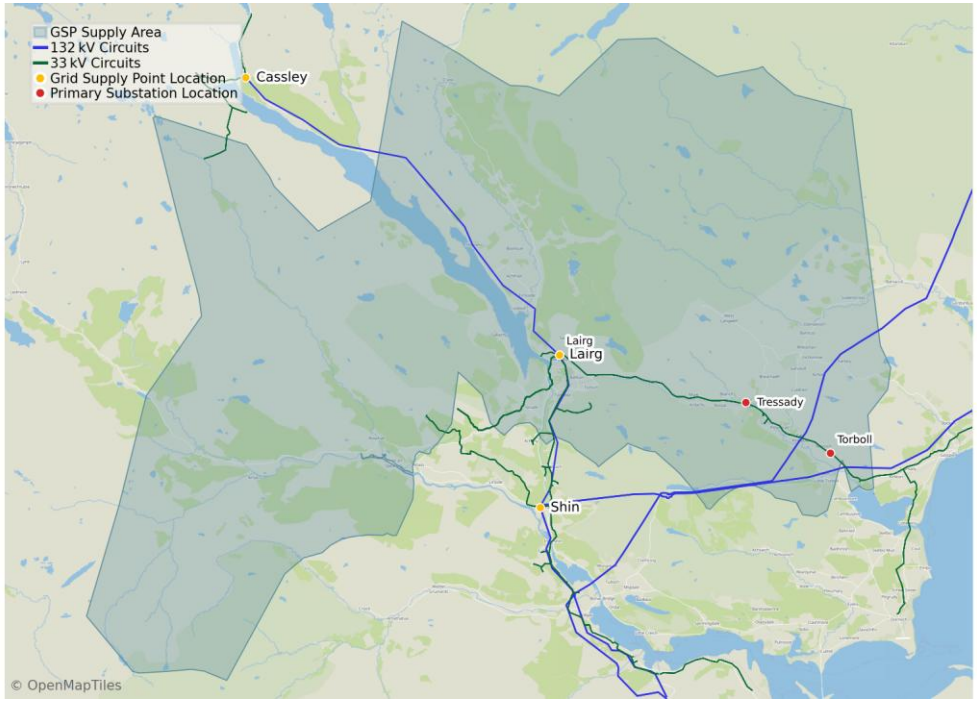
			requires dedicated circuits or circuit reinforcement.	
Inverurie PSS	33/11	2028	15MVA transformer overloaded under intact conditions; requires transformer replacement, network reinforcement, or load transfer.	CV1 - Primary reinforcement
Kintore GSP – Torryburn PSS circuit	33	2031	33kV circuit thermal overload and associated voltage issues under N-1 conditions; requires circuit reinforcement, network reconfiguration or new GSP.	CV1 - Primary reinforcement
Skene PSS	33/11	2033	Both PSS transformers overloaded under intact conditions; requires transformer reinforcement, additional transformers or 11kV load transfer.	CV1 - Primary reinforcement

Table P2.54 Kintore GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Methlick 33/11kV Transformer Replacement and Transfer to Rothienorman GSP	33	N/A	N/A	N/A	Mar-28	N/A	Increase in Transformer capacity - replace T1 with a 6.3MVA transformer to match T2 and transfer Methlick PSS from Kintore GSP to Rothienorman GSP. LTDS Nodes: 83849	CV7 - Asset Replacement
Fyvie - Methlick 33kV Network Reinforcement	33	N/A	N/A	N/A	Mar-27	N	Reinforce section of the existing Fyvie - Methlick 33kV circuit LTDS Nodes: 83859 - 83863	CV1 - Primary Reinforcement
Kintore 301 Circuit Reinforcement	33	N/A	N/A	0	Mar-29	Y	Increase in network capacity LTDS Nodes: 83848 - 83835	CV1 - Primary Reinforcement
Oldmeldrum 33/11kV	33/11	7.76	29.1	N/A	Mar-29	N	Increase in Transformer capacity, replace 33kV and	CV1 - Primary Reinforcement

Transformer and Switchboard Replacement							11kV switchgear - replace both 4/8MVA transformers with 15/30MVA units LTDS Nodes: 83842, 83843, 83845	
Banchory - Circuit Reinforcement and Transformer Replacement	33/11	13.58	38.1	N/A	Oct-29	Y	Increase in transformer and circuit capacity - Replace the existing 10/14MVA transformers with 20/40MVA units and reinforce feeder 304 LTDS Nodes: 83818, 83823 - 83833	CV1 - Primary Reinforcement
Midmar - Transformer Replacement	33/11	5.9	7.76	N/A	Mar-30	Y	Increase in transformer capacity - Replace the existing 5MVA transformer with 2 x 8MVA units LTDS Nodes: 83818	CV1 - Primary Reinforcement

Lairg



Lairg GSP Information

This GSP supplies the following primary substations:

- Lairg
- Torboll
- Tressady

Lairg GSP is located within the Highland region of the SHEPD licence area and currently supplies approximately 1,153 customers.

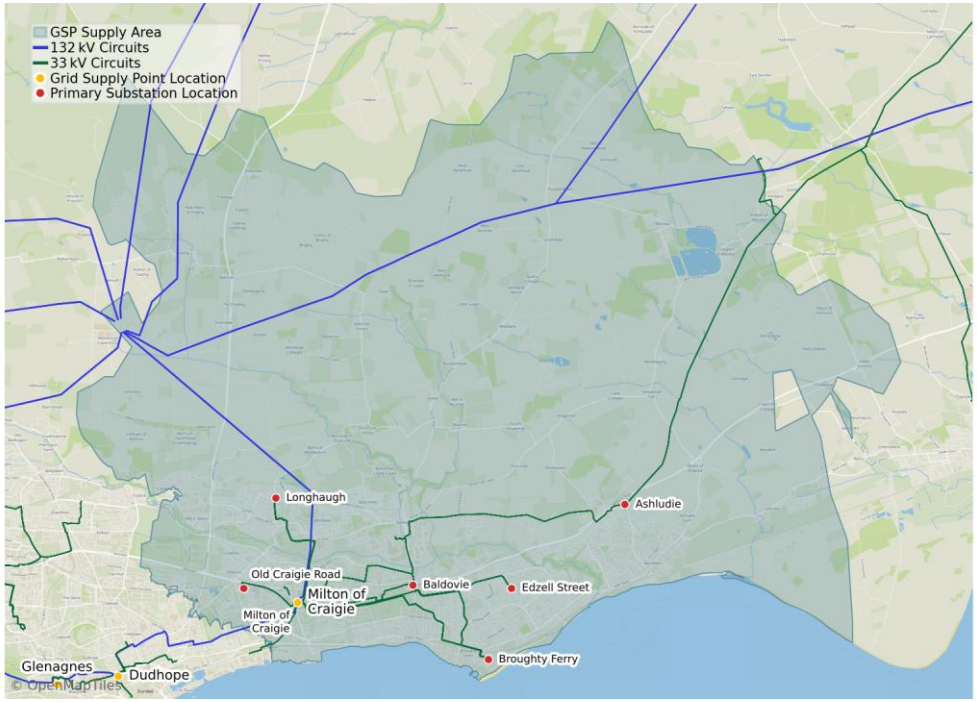
Table P2.55 Larig GSP reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Tressady PSS 33/11kV transformer	33/11	Ahead of 2035	Thermal overload of single PMT with Tressady North PSS planned; options includes installing a third 33/11kV 315 kVA transformer (Tressady Central PSS) in 2034.	CV1 - Primary reinforcement

Table P2.56 Lairg GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
New Tressady Additional Transformer	33/11	N/A	N/A	0.315	Mar-29	N	Increase network capacity - Establish an additional pole mounted 33/11kV 0.315MVA transformer in the Tressady area	CV1 - Primary Reinforcement
Lairg P2 Compliance	33	1	3.25	N/A	Mar-29	N	Increase in transformer capacity and network security - Add a 4MVA transformer and replace the 33kV switchboard at Lairg PSS LTDS Nodes: 83908	CV1 - Primary Reinforcement

Milton of Craigie



Milton of Craigie GSP Information

This GSP supplies the following primary substations:

- Ashludie
- Baldovie
- Broughty Ferry
- Edzell Street
- Longhaugh
- Milton of Craigie
- Old Craigie Road

Milton of Craigie GSP is located within the Dundee region of the SHEPD licence area and currently supplies approximately 31,900 customers.

Table P2.57 Milton of Craigie GSP group reinforcement projects in initial development

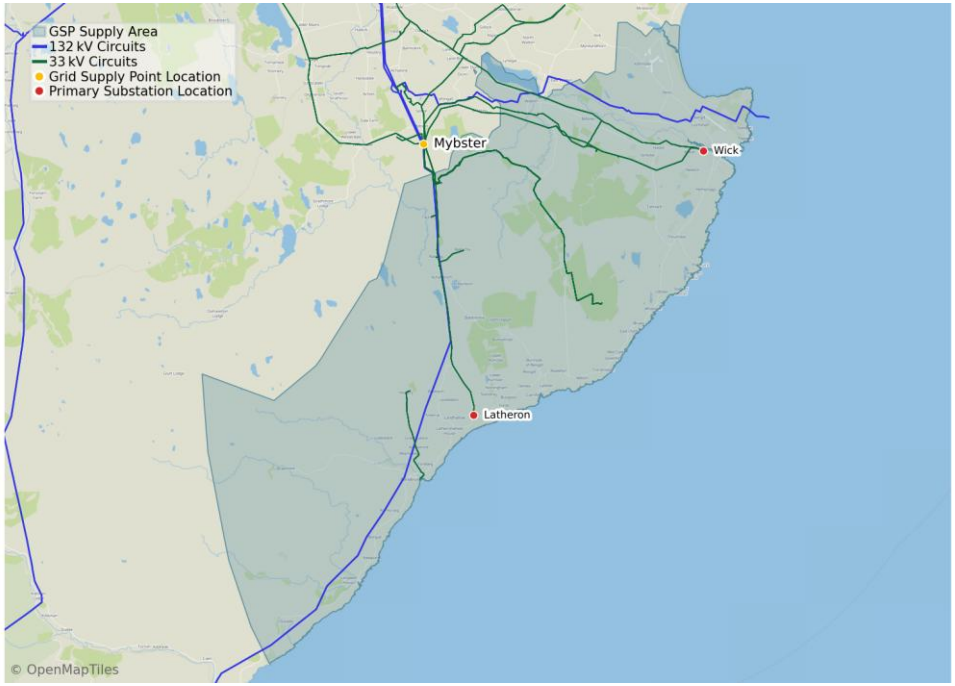
Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
6L5 and 5L5 circuits to Baldovie and Edzell Street PSS	33	2033	N-1 circuit overloads with parallel routes on both circuits; mitigation via coordinated UG upgrade, flexibility services, or 11 network load transfer.	CV1 - Primary reinforcement
Broughty Ferry PSS transformers	33/11	2034	N-1 transformer thermal constraint; Options include transformer reinforcement,	CV1 - Primary reinforcement

			flexibility services or 11kV load transfer	

Table P2.58 Milton of Craigie GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Ashludie PSS - Transformer and Switchboard Replacement	33/11	13	29.1	N/A	Mar-29	Y	Increase in Transformer capacity - Replace both 10/12.5MVA transformers with 15/30MVA units, replace the 33kV switchgear and replace the 11kV switchboard with 25kA break / 62.5kA make rated switchgear LTDS Nodes: 84329, 84330 & 84331	CV1 - Primary Reinforcement

Mybster



Mybster GSP Information

This GSP supplies the following primary substations:

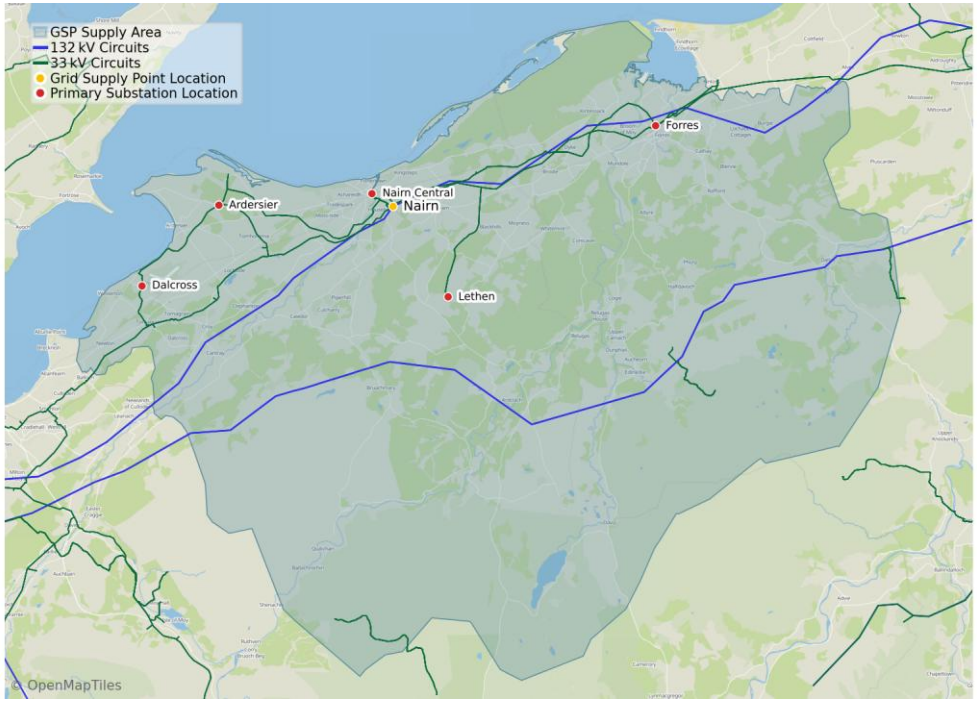
- Latheron
- Mybster Grid
- Wick

Mybster GSP is located within the Highlands region of the SHEPD licence area and currently supplies approximately 6,608 customers.

Table P2.59 Mybster GSP group reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
4L5 and 2L5 circuits to Wick PSS	33/11	2033	N-1 voltage constraint with emerging thermal constraint on 33 circuits to Wick; mitigation via conductor uprating, flexibility, or 11 network reconfiguration.	CV1 - Primary Reinforcement

Nairn



Nairn GSP Information

This GSP supplies the following primary substations:

- Ardersier
- Dalcross
- Forres
- Lethen
- Nairn Central

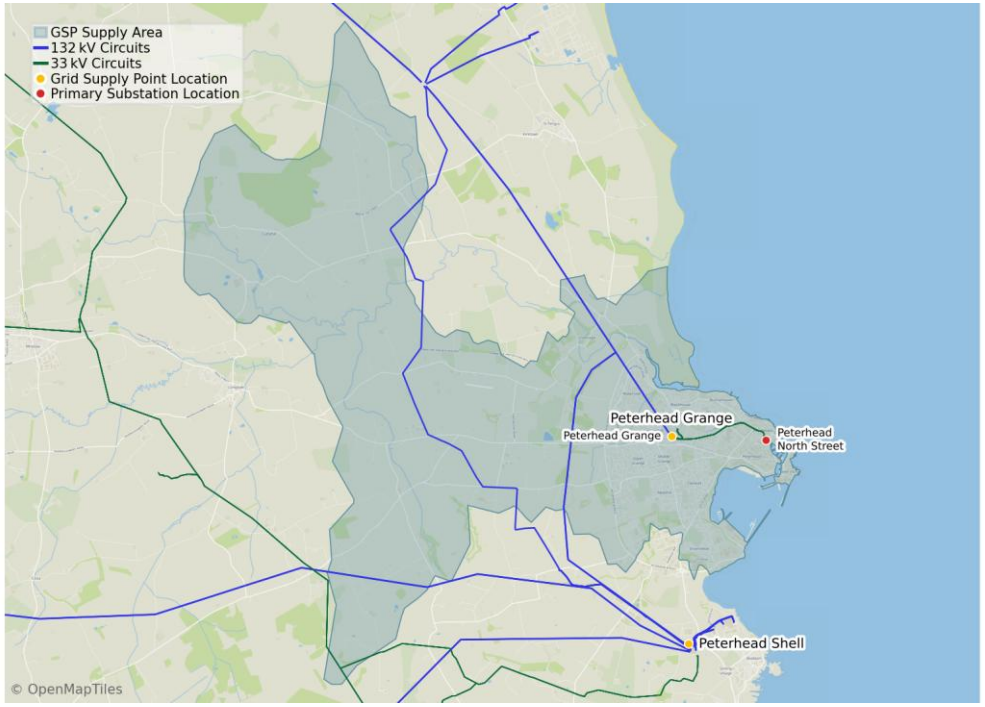
Nairn GSP is located within the Dundee region of the SHEPD licence area and currently supplies approximately 16,100 customers.

Table P2.60 Nairn GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Nairn 4L5 Reinforcment	33	N/A	N/A	15.7	Dec-26	Y	Increase in network capacity LTDS Nodes: 84505-84519	CV1 - Primary Reinforcement
Forres - Circuit Reinforcement and Transformer Replacement	33	N/A	N/A	61.8	Jun-32	Y	Increase in transformer and circuit capacity - Replace the existing 7.5/15MVA transformers with 20/40MVA units and reinforce feeders 303 and	CV1 - Primary Reinforcement

							306 LTDS Nodes: 84504, 84503 - 84508, 84503 - 84511	

Peterhead Grange



Peterhead Grange GSP Information

This GSP supplies the following primary substations:

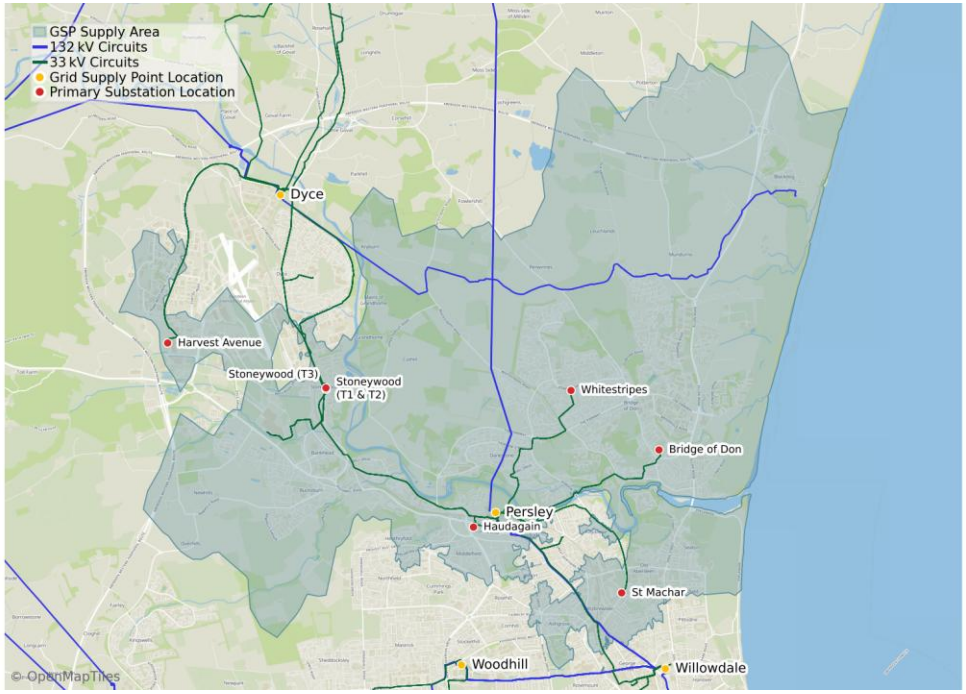
- Peterhead Grange 11
- Peterhead North St

Peterhead Grange GSP is located within the Aberdeenshire region of the SHEPD licence area and currently supplies approximately 8,524 customers.

Table P2.61 Peterhead Grange GSP reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Published DNOA	Project Description	Driver
Peterhead Grange GSP transformers	33	2034	N	N-1 outage results in thermal constraints on 2 x 45 MVA transformers; reinforce both existing assets to provide capacity out to 2050.	CV1 - Primary Reinforcement

Persley



Persley GSP Information

This GSP supplies the following primary substations:

- Bridge Of Don
- Haudagain
- St Machar
- Stoneywood
- Whitestripes

Persley GSP is located within the Aberdeenshire region of the SHEPD licence area and currently supplies approximately 28,889 customers.

Table P2.62 Persley GSP reinforcement projects in initial development

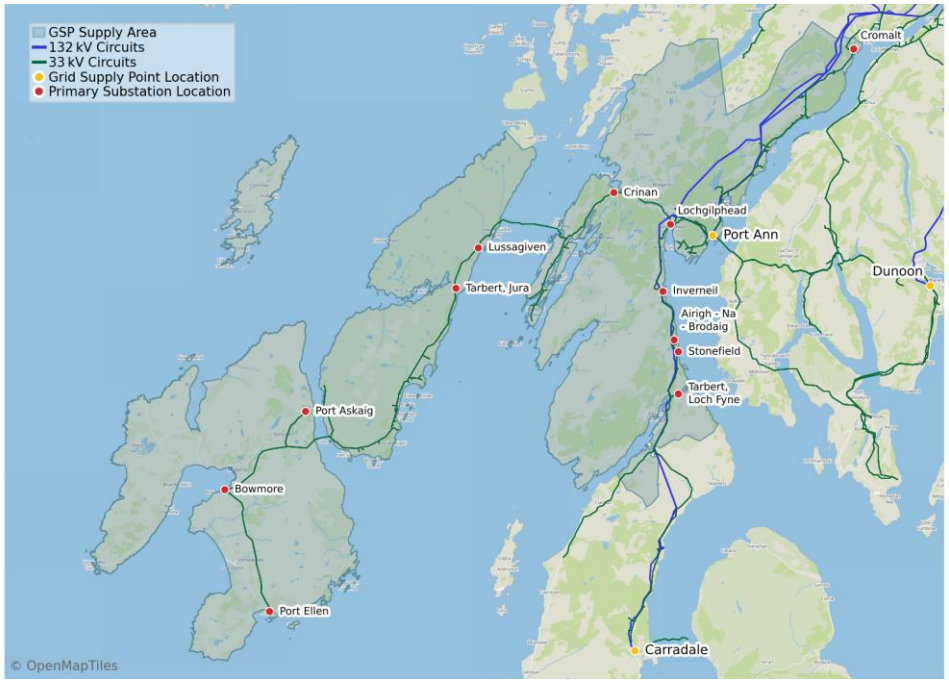
Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Bridge of Don PSS transformers and CBs	33/11	2030	N-1 outage of either transformer causes thermal overload; mitigation via transformer and CB upgrade, potential third transformer, or flexibility.	CV1 - Primary Reinforcement
Whitestripes PSS transformers and 8L5 CB	33/11	2035	N-1 outage of either transformer causes overload; mitigation via transformer and CB upgrades,	CV1 - Primary Reinforcement

			flexibility, or coordinated reinforcement with Bridge of Don.	

Table P2.63 Persley GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Persley-Bridge of Don 33kV FFC replacement	33	N/A	N/A	N/A	May-29	N/A	Replace 33kV fluid filled cable with Al cables: change in cable capacity	CV7 - Asset Replacement
Stoneywood T1 & T2 - Circuit Reinforcement	33	N/A	N/A	22	Mar-30	Y	Increase in network capacity LTDS Nodes: 84608 - 84612, 84613 - 84614	CV1 - Primary Reinforcement

Port Ann



Port Ann GSP Information

This GSP supplies the following primary substations:

- Arigh-na-brodaig
- Bowmore
- Crinan
- Cromalt
- Inverneil
- Lochgilphead
- Lussagiven
- Port Ann Grid
- Port Askaig
- Port Ellen
- Stonefield
- Tarbert Jura
- Tarbert Loch Fyne

Port Ann GSP is located within the South Caledonia region of the SHEPD licence area and currently supplies approximately 9,000 customers.

Table P2.64 Rannoch GSP group reinforcement projects in initial development

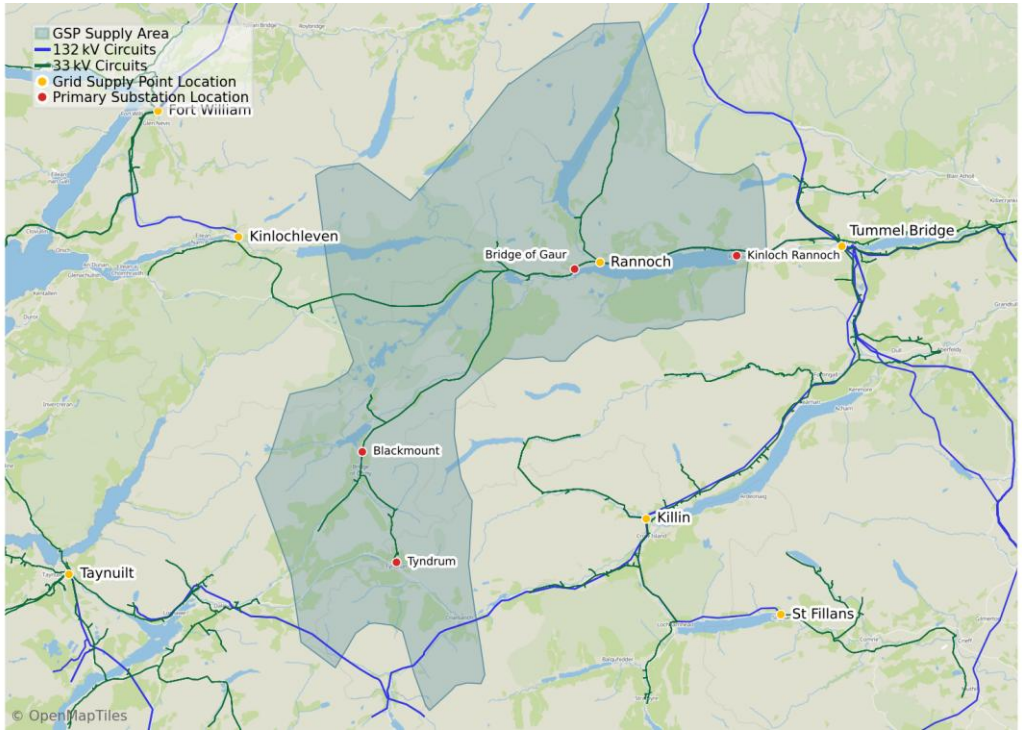
Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Install auto-close scheme at Bowmore PSS	33	2028	Increase capacity. Establish auto-close scheme the Bowmore – Port Ellen double circuits	CV1 - Primary Reinforcement

Port Ann - Port Askaig (via Knocklearach)	33	2030	Increase capacity; 33kV reinforcement works including new 33kV circuit from Port Ann GSP to Islay network.	CV1 - Primary Reinforcement

Table P2.65 Port Ann GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Islay (NoSR)	33	N/A	N/A	N/A	Jun-26	Y	North of Scotland Resiliance (NoSR) Increase in network security	CV15 - QoS & North of Scotland
Port Ann Diversion to Craig Murrail	33	-	-	-	Aug-27	Y	Divert the existing 33kV circuits fed from Port Ann to the replacement GSP Craig Murrail LTDS Nodes: 11591, 18530 and surrounding	V3 - Connections
Lochgilphead Circuit reinforcement	33	N/A	N/A	11.5	Dec-27	Y	Lochgilphead 1L5 - Increase in network capacity LTDS Nodes: 84909 - 84947	CV1 - Primary Reinforcement
Cromalt - Transformer Replacement	33/11	2.95	3	N/A	Mar-30	Y	Increase in Transformer capacity - Replace the 2.5MVA transformer with a 4MVA unit LTDS Nodes: 84952	CV1 - Primary Reinforcement
Port Ann / Port Askaig 33kV Circuits	33	N/A	N/A	N/A	Dec-32	Y	Increase in network security - Establish a new 33kV circuit between Port Ann GSP and Knocklearoch switching station	CV1 – Primary reinforcement
Port Ann 301 - 308 Reinforcement	33	N/A	N/A	12	Dec-27	Y	Increase in network capacity LTDS Nodes: 84958 - 84926	CV1 – Primary reinforcement

Rannoch



Rannoch GSP Information

This GSP supplies the following primary substations:

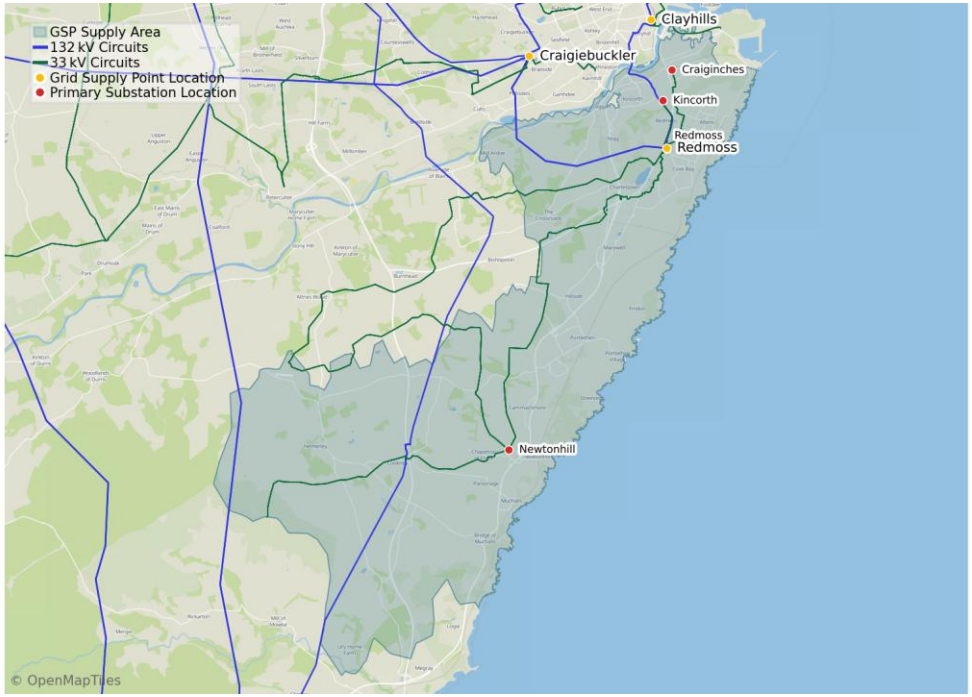
- Blackmount
- Bridge Of Gaur
- Kinloch Rannoch
- Rannoch Primary
- Tyndrum

Rannoch GSP is located within the Aberdeenshire region of the SHEPD licence area and currently supplies approximately 506 customers.

Table P2.66 Rannoch GSP group reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Blackmount PSS transformer	33/11	2029	Thermal overload of Blackmount PSS transformer under N-1 conditions. Options include transformer reinforcement or flexibility services.	CV1 - Primary Reinforcement

Redmoss



Redmoss GSP Information

This GSP supplies the following primary substations:

- Craiginches
- Kincorth
- Newtonhill
- Redmoss 11kV

Redmoss GSP is located within the South Caledonia region of the SHEPD licence area and currently supplies approximately 19,409 customers.

Table P2.67 Redmoss GSP group reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Circuits to Craiginches PSS	33/11	2030	N-1 outage causing overload; options include cable upgrades, flexibility, or 11kV load shedding.	CV1 - Primary Reinforcement
Kincorth PSS transformers	33/11	2035	N-1 outage of either transformer causing thermal constraint; options include transformer upgrade or additional transformer.	CV1 - Primary Reinforcement

Circuit to Newtonhill PSS	33/11	2035	N-1 outage causing thermal and voltage constraints; upgrade OHL, flexibility, new PSS at Portlethen, or load shedding.	CV1 - Primary Reinforcement

Table P2.68 Redmoss GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Newtonhill - Transformer and Switchgear Replacement	11	14.55	29.1	N/A	Mar-29	Y	Increase in Transformer capacity - Replace both 15MVA transformers with 15/30MVA units, the 33kV switchgear and replace the 11kV switchboard with 25kA break / 62.5kA make rated switchgear LTDS Nodes: 85107	CV1 - Primary Reinforcement

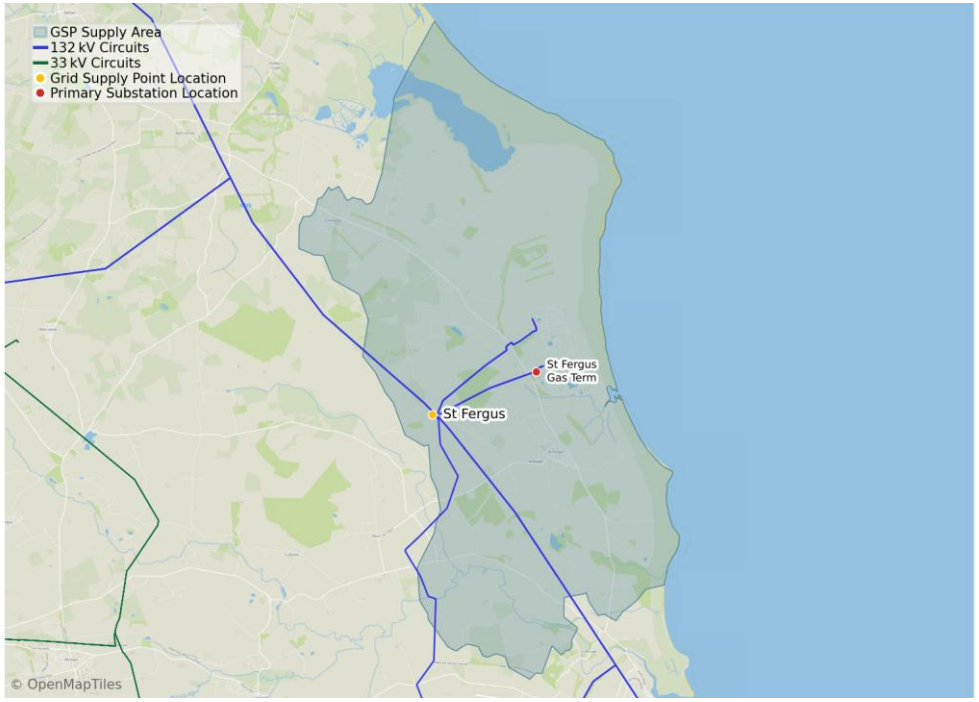
Rothienorman

	Rothienorman GSP Information The Rothienorman GSP is currently under development. Further details, including supporting imagery will be provided once the design has been finalised. Rothienorman GSP will be located within the Aberdeenshire region of the SHEPD licence area.

Table P2.69 Rothienorman GSP group reinforcement projects detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Rothienorman GSP Integration	33	N/A	N/A	0	Mar-28	Y	Facilitate renewable generation / DGEN reconfiguration to free up capacity at Keith & Kintore. Involves transferring Methlick, Insch & Fyvie PSSs alongside embedded generation to Rothienorman GSP.	CV1 - Primary reinforcement
Fyvie PSS Transfer to Rothienorman GSP	33/11	N/A	N/A	1	Mar-27	Y	Transfer Fyvie PSS from Kintore GSP to Rothienorman GSP via 2 new 33kV circuits and the establishment of a new 33kV switchboard As of the May 2026 update Fyvie PSS is now fed from Rothienorman GSP with the new 33kV board reinforcement works continuing.	CV1 - Primary Reinforcement

St Fergus



St Fergus GSP Information

This GSP supplies the following primary substations:

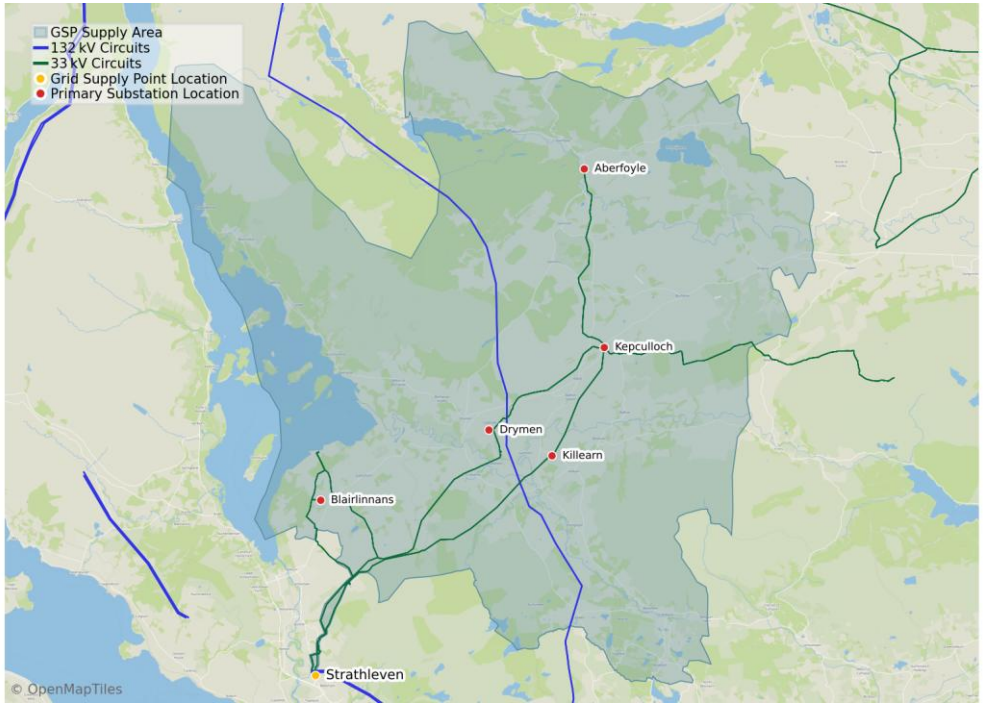
- St Fergus Gas Term

St Fergus GSP is located within the Aberdeenshire region of the SHEPD licence area and currently supplies approximately 902 customers.

Table P2.70 St Fergus GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
St Fergus Gas 11kV Board Replacement	11	N/A	N/A	0	Nov-28	N/A	Increase in make and break fault ratings to 25kA break / 62.5kA make LTDS Nodes: 21350	CV3 - Fault Level Reinforcement

Strathleven



Strathleven GSP Information

This GSP supplies the following primary substations:

- Aberfoyle
- BlairInnans
- Drymen
- Kepculloch
- Killearn
- Strathleven

Strathleven GSP is located within the Southern highland region of the SHEPD licence area and currently supplies approximately 5,839 customers.

Table P2.71 Strathleven GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Drymen - Transformer Replacement	33/11	1	1	N/A	Jun-27	Y	Increase in Transformer capacity - Replace the 5/6.25MVA transformer with a 7.5/15MVA unit LTDS Nodes: 85707	CV1 - Primary Reinforcement
Killearn - Transformer Replacement	33/11	1	1	N/A	Jun-27	Y	Increase in Transformer capacity - Replace the 5/6.25MVA transformer with	CV1 - Primary Reinforcement

							a 7.5/15MVA unit LTDS Nodes: 85718	
Kepculloch - Transformer Replacement	33/11	6.305	14.55	N/A	Mar-30	N	Increase in Transformer capacity - Replace the 5MVA transformers with 7.5/15MVA units LTDS Nodes: 85712	CV1 - Primary Reinforcement
Strathleven 304 Circuit Reinforcement	33/11	N/A	N/A	3.84	Mar-30	Y	Increase in network capacity LTDS Nodes: 41033 - 85700	CV1 - Primary Reinforcement

Strichen

Strichen GSP Information

This GSP supplies the following primary substations:

- Hatton
- Maud
- Mintlaw
- New Pitsligo
- Stoneyhill
- Strichen

Strichen GSP is located within the Aberdeenshire region of the SHEPD licence area and currently supplies approximately 9,613 customers.

Table P2.72 Strichen GSP group reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
STRI 2L5 circuit between Strichen GSP and Maud PSS	33	2029	Upgrade OHL circuits between Auchtygill, South Reddog and towards Maud.	CV1 - Primary reinforcement
STRI 3L5 circuit towards Maud	33	2032	Construct new circuits from Strichen GSP to Mintlaw PSS.	CV1 - Primary reinforcement
Hatton PSS transformers	33	2034	Construct new circuits from Strichen GSP to Maud PSS.	CV1 - Primary reinforcement

Strichen PSS transformers	33	2030	Reinforce existing transformers to provide capacity into the 2050s.	CV1 - Primary reinforcement

Table P2.73 Strichen GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Strichen 302 & 303 Circuit Reinforcement	33	N/A	N/A	25.6	Apr-31	Y	Feeder 302: Increase in circuit capacity and the installation of a new 33kV switchboard at Mintlaw PSS LTDS Nodes: 85841-85805 / 85806 Feeder 303: Increase in circuit capacity and the installation of a new 33kV switchboard at Maud PSS LTDS Nodes: 85842 - 85815 / 85816	CV1 - Primary Reinforcement

Stornoway

Stornoway GSP Information

This GSP supplies the following primary substations:

- Stornoway
- Battery Point
- Coll
- Barvas
- Maaruig
- Laxay
- Callanish
- Gisla

Stornoway GSP is located within the Outer Hebrides region of the SHEPD licence area and currently supplies approximately 12,495 customers.

Table P2.74 Stornoway GSP reinforcement projects in initial development

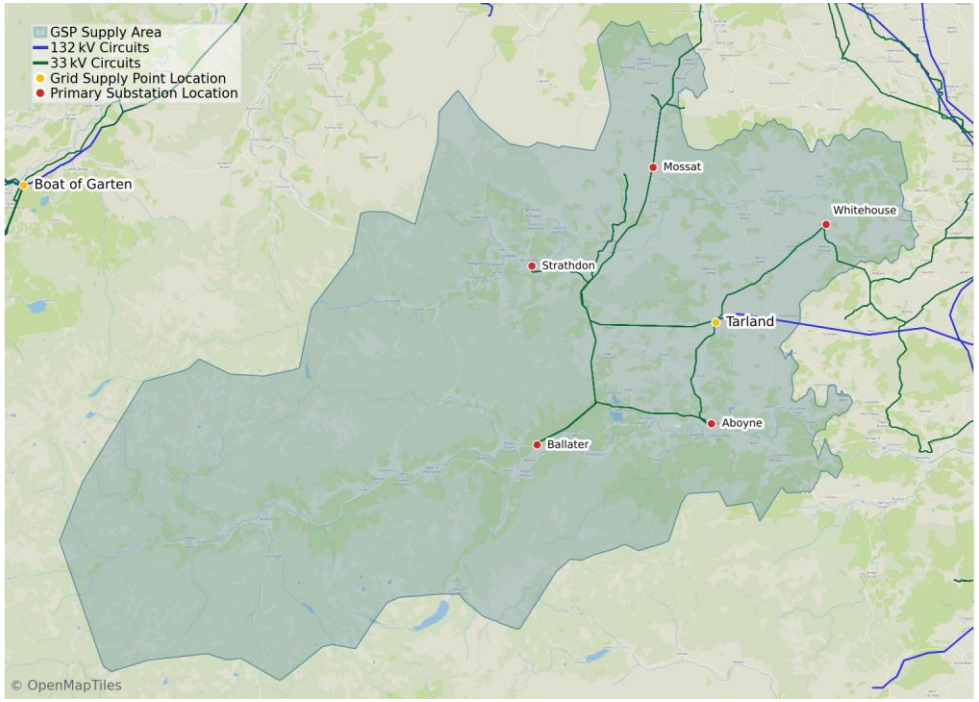
Substation Name	Primary/Secondary Voltage (kV)	Forecast Need Date	Project Description	Driver
Callanish	33/11	2028	Establish a second 4 MVA transformer and 33 kV switching station at Callanish PSS to improve N-1 resilience and enhance supply routing.	CV1 - Primary Reinforcement

Table P2.75 Stornoway GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Stornoway 305 Circuit Reinforcement (Voltage)	33	N/A	N/A	0.23	Oct-28	Y	Alleviate forecast voltage constraints - Install a 4MVAr STATCOM to feeder 305 in the vicinity of Tarbert PSS LTDS Nodes: 85601	CV1 - Primary Reinforcement
Gisla - Circuit Reinforcement and Transformer Replacement	33/11	N/A	N/A	4	Oct-28	Y	Increase in transformer and circuit capacity - Replace the single 1MVA transformer with 2 x 2.5MVA units and install a new 33kV circuit between Garynahine and Gisla LTDS Nodes: 85617	CV1 - Primary Reinforcement
Barvas - Transformer Replacement	33/11	3.25	8.19	N/A	Jun-28	Y	Increase in Transformer capacity - Replace both 2.5MVA transformers with 6.3MVA units LTDS Nodes: 85627	CV1 - Primary Reinforcement
Coll - Transformer and Switchboard Replacement	33/11	2.95	8.19	N/A	Jun-28	Y	Increase in Transformer capacity - Replace the 2.5MVA transformer with 2 x 6.3MVA units and replace the 11kV switchboard with 25kA break / 62.5kA make rated switchgear LTDS Nodes: 85625	CV1 - Primary Reinforcement
Coll & Barvas (NoSR)	33	N/A	N/A	N/A	Jun-28	Y	Increase network security - Replace the Stornoway 33kV board with 31.5kA break / 78.8kA make switchgear, build a 2nd 33kV circuit from Stornoway GSP connecting to both Coll and Barvas primaries, at Coll replace the 33kV switchgear, and replace the 11kV switchboard with 25kA break / 62.5kA make rated switchgear, at Barvas replace	CV19 - Resilience

							the 33kV switchboard LTDS Nodes: 85628, 85624 & 85626	
Battery Point 33kV Substation Replacement	11	15.52	29.1	N/A	Jul-28	N/A	The proposed works seek to replace the three 4/8MVA transformers with two 15/30MVA. The works will also seek to replace both the 33kV and 11kV switchgear. New 11kV ratings of 25kA break / 62.5kA make	CV7 - Asset Replacement

Tarland



Tarland GSP Information

This GSP supplies the following primary substations:

- Aboyne
- Ballater
- Mossat
- Strathdon
- Whitehouse

Tarland GSP is located within the Aberdeenshire region of the SHEPD licence area and currently supplies approximately 10,237 customers.

Table P2.76 Tarland group reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Whitehouse PSS transformers	33	2035	N-1 outage of either transformer results in overload; mitigation via transformer upgrade or additional transformer and flexibility.	CV1 - Primary reinforcement

Table P2.73 Tarland GSP group reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Ruthven PSS	33/11	N/A	N/A	1	Jan-29	N	Establish a new PSS in the Ruthven area including a 8MVA transformer	CV1 - Primary Reinforcement
Tarland Interconnection Circuits	33	N/A	N/A	7.15	Mar-29	N	Increase in circuit capacity LTDS Nodes: 86723 & 86716 Increase in Mossat PSS transformer capacity, replace both 2.5MVA transformers with 8MVA units and install a 33kV switchboard LTDS Nodes: 86712, 86703 & 86711	CV1 - Primary Reinforcement
Tarland Ring Reinforcement	33	N/A	N/A	15.6	May-30	Y	Increase in network capacity - Separate Aboyne PSS from the Tarland 33kV ring via 2 new 33kV circuits, replace the 33kV switchgear at Ballater PSS to allow the connection of 2 x 4MVAr STATCOMs and establish a new PSS in Braemar including 2 x 6.3MVA transformers LTDS Nodes: 86704 & 86708	CV1 - Primary Reinforcement
Tarland 304 Circuit Reinforcement	33	N/A	N/A	N/A	Jun-27	N/A	Increase in network capacity LTDS Nodes: 86713-86727	CV7 - Primary Reinforcement

Taynuilt

Taynuilt GSP Information

This GSP supplies the following primary substations:

- Barcaldine
- Kenmore
- Bonawe
- Dalmally
- Kilchrenan
- Eredine
- Taynuilt
- Connel
- Oban
- Kilninver
- Scammadale
- Kilmelford
- Tiroran Bridge
- Kinloch
- Salen
- Dervaig
- Lochdonhead
- Kerrera

Taynuilt GSP is located within the Argyll & West region of the SHEPD licence area and currently supplies approximately 14,548 customers.

Table P2.77 Taynuilt GSP group reinforcement projects in initial development

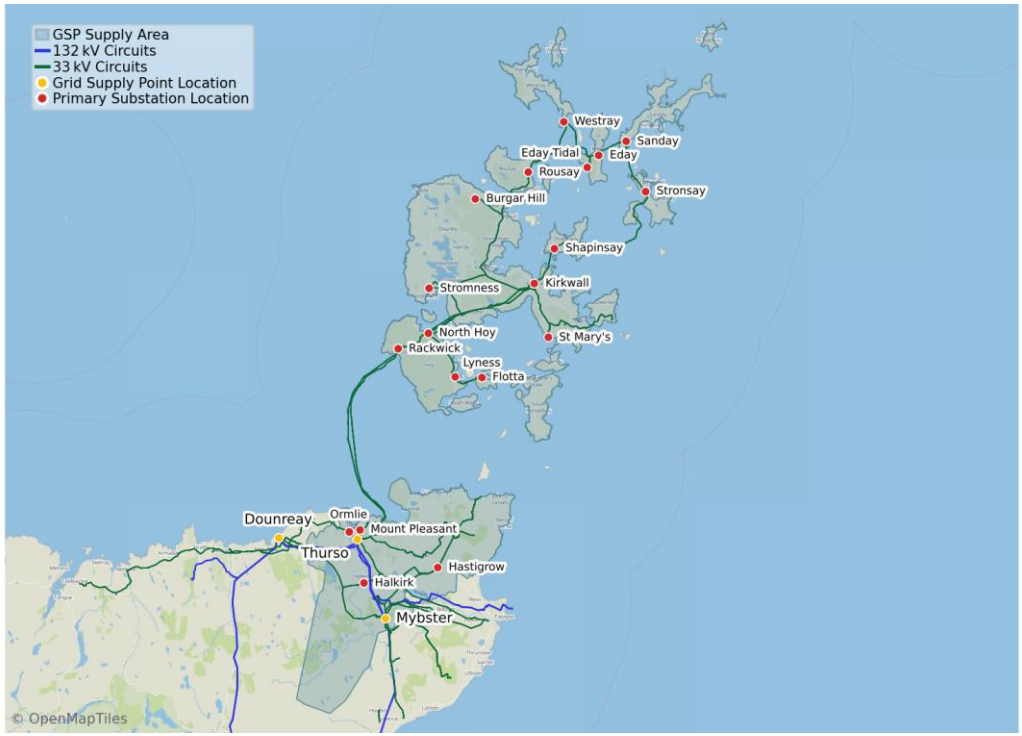
Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Dervaig, Coll and Tiree	11	2035	Augment existing 11 kV subsea circuits between Dervaig, Coll and Tiree using known routes to improve resilience.	CV15 - QoS and North of Scotland Resilience
Coll and Tiree (existing route)	33	2035	Install new 33 kV subsea cable on existing 11 kV route and establish new PSS on Coll to increase capacity and resilience.	CV15 - QoS and North of Scotland Resilience
Bunessan and Tiree	11	2035	Establish new 11 kV subsea route from Bunessan PSS to Tiree Power Station to improve flexibility and remove single point of failure.	Resilience
Bunessan and Tiree	33	2035	Establish new 33 kV subsea route from Bunessan PSS to Tiree Power Station with new PSS at Tiree to provide higher capacity and resilience.	CV15 - QoS and North of Scotland Resilience
Salen and Tiree	11	2035	Establish new 11 kV subsea route from Salen PSS to Tiree Power Station, reducing subsea length and improving resilience.	CV15 - QoS and North of Scotland Resilience

Table P2.78 Taynuilt GSP group reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Taynuilt - Tullich 33kV Circuit Reinforcement	33	N/A	N/A	16.3	Aug-26	N	Increase in network capacity. LTDS Nodes: 3L5: 19730-	CV1 - Primary Reinforcement

							85917-85966-85913; 6L5: 19730-85941-85964-85913	
Kimleford & Kilninver P2 Compliance	33	N/A	N/A	7.5	Apr-34	Y	Increase in transformer capacity and network security - Establish a new 33kV circuit between Tullich Switching Station and Kilmelford PSS, replace the 2.5MVA Kilmelford transformer with a 6MVA unit, install 2 x 2MVAr STATCOM's in the vicinity of Kilmelford and establish a new PSS south of Kilmelford including a 4MVA transformer	CV1 - Primary Reinforcement
Dervaig Undervoltage	33/11	N/A	N/A	0	Sep-31	Y	Alleviate forecast voltage constraints - Install a 3 x 2MVAr STATCOMs at Dervaig PSS LTDS Nodes: 85940	CV1 - Primary Reinforcement
Kinloch P2 Compliance	33	N/A	N/A	2.5	May-29	Y	Increase network security - Establish a new 33kV circuit between Lochdonhead and a new PSS in the Bunessan area including a 2.5MVA transformer, establish a 33kV circuit between this new PSS and Kinloch PSS. LTDS Nodes: 85928, 85934	CV1 - Primary Reinforcement
Oban 33kV Circuits	33	N/A	N/A	11.7	Aug-27	Y	Increase in network capacity LTDS Nodes: 85913-85914, 85913-85915	CV1 - Primary Reinforcement

Thurso South



Thurso South GSP Information

This GSP supplies the following primary substations:

- Burgarhill
- Eday
- Eday Tidal
- Flotta
- Forss
- Halkirk
- Hastigrow
- Kirkwall
- Lyness
- Mount Pleasant
- North Hoy
- Ormlie
- Rackwick
- Rousay
- Sanday
- Shapinsay
- South Ronaldsay*
- St Marys
- Stromness
- Stronsay
- Westray

Thurso South GSP is located within the Caithness region of the SHEPD licence area and currently supplies approximately 22,709 customers.

Table P2.79 Thurso South GSP group reinforcement projects in initial development

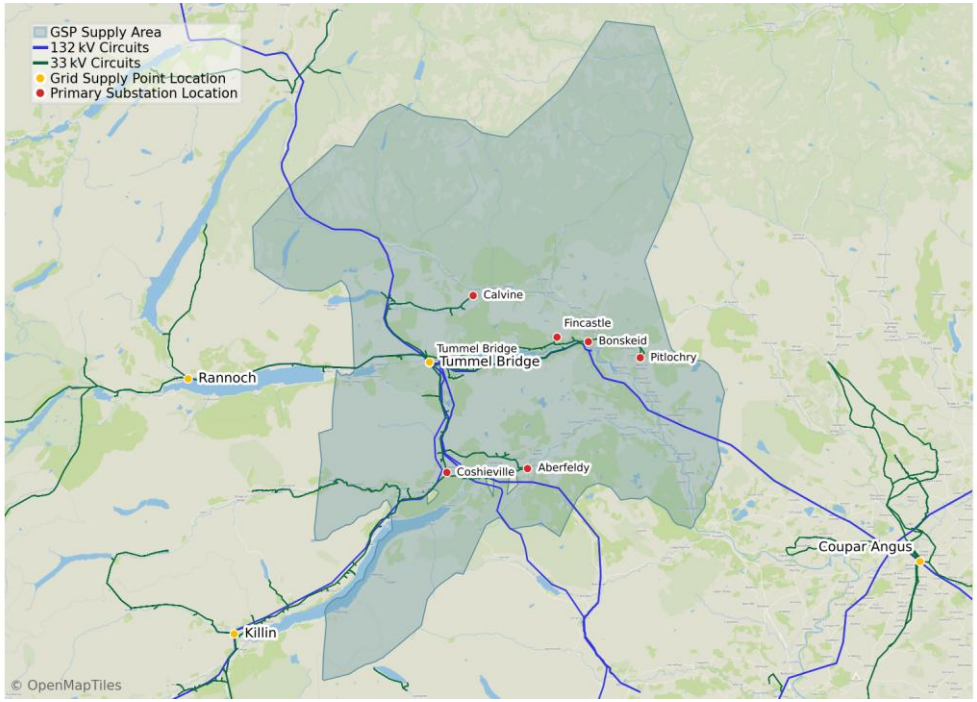
Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Thurso South GSP	33/11	2028	Establish a 75 MVA rated interconnector from Thurso South GSP to Scorradale through 66 kV uprating of existing 33 kV circuits, providing long-term reinforcement without requiring 33 kV replacement on failure.	CV15 - QoS and North of Scotland Resilience
Thurso South GSP – St Marys via Flotta	33	2028	Establish an additional 35 MVA rated 33 kV interconnector from Thurso South GSP to St Marys via Flotta or establish a 75 MVA rated interconnector via 66 kV upgrade from Thurso South to St Marys via Flotta, including upgrade of the St Marys–Kirkwall 33 kV OHL/cable.	CV15 - QoS and North of Scotland Resilience
Thurso South GSP	132/33	2028	Install additional 132/33 kV transformers at Thurso South to meet future generation export requirements.	CV1 - Primary Reinforcement

Table P2.80 Thurso South GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Mount Pleasant 33/11kV Transformer Addition	33/11	8.85	14.55	N/A	Nov-26	N/A	Increase in network capacity - Replace T1 add a 2nd matching 7.5/15MVA transformer. LTDS Nodes: 86011	CV7 - Asset Replacement

Sanday 33/11kV Transformer & Reactor Replacement	33/11	1	1	N/A	Sep-26	N/A	Increase in network capacity Substation replacement - outdoor 33kV isolator arrangement to be replaced with indoor 33kV Switchboard alongside replacement of the reactor. 1.5MVA Transformer to be replaced with 2.5MVA. LTDS Nodes: 86118	CV7 - Asset Replacement
Lyness PSS - T1 Replacement	33/11	1	1	N/A	Sep-28	N/A	Increase in T1 transformer capacity to 2.5MVA. LTDS Nodes: 86133	CV7 - Asset Replacement
Halkirk - Transformer Replacement		N/A	N/A	10.1	Mar-28	N	Increase in Transformer capacity - Replace the 2.5MVA transformer with 2 x 6.3MVA units LTDS Nodes: 86017	CV1 - Primary Reinforcement
Thurso - Orkney New Submarine Cable	33	N/A	N/A	N/A	May-29	Y	Install a new submarine cable between Thurso South GSP and the proposed new PSS on South Ronaldsay. This will also require the installation of a 2.5MVAr reactor at the new South Ronaldsay PSS and creation of new normally open points between South Ronaldsay and Finstown GSP / St Marys PSS On completion South Ronaldsay will be supplied from Thurso South GSP LTDS Nodes: 19930 - TBC	CV1 - Primary Reinforcement
Scorradale Regulator Reinforcement		N/A	N/A	15	Mar-29	N/A	Replace the 20MVAr voltage regulator at Scorrodale switching station with a 35MVA unit LTDS Nodes: 86101	CV1 - Primary Reinforcement

Tummel Bridge



Tummel Bridge GSP Information

This GSP supplies the following primary substations:

- Aberfeldy
- Bonskeid
- Calvine
- Fincastle
- Kinloch Rannoch
- Pitlochry
- Tummel Bridge

Tummel Bridge GSP is located within the Perthshire region of the SHEPD licence area and currently supplies approximately 6,836 customers.

Table P2.81 Tummel Bridge GSP reinforcement projects in initial development

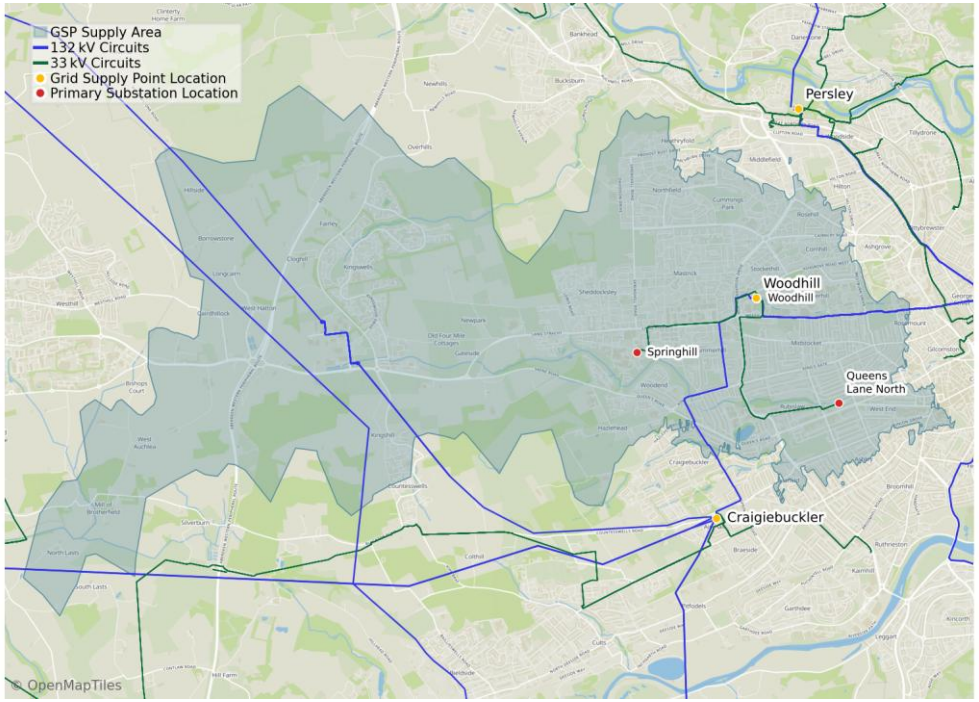
Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Pitlochry PSS (2x 33 transformers)	33/11	2033-2035	Thermal overload of Pitlochry PSS transformers under N-1 conditions. Options include transformer reinforcement, load transfer, new PSS, or flexibility services.	CV1 - Primary Reinforcement
Tummel Bridge 33kV circuit 5L5	33	2025-2030	Potential low voltage under N-1 from 2025 and intact from 2036. Options include circuit	CV1 - Primary reinforcement

			reinforcement, voltage compensation, new circuits, or new GSP near Dunkeld.	

Table P2.82 Tummel Bridge GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Calvine - Transformer Replacement	33/11	1	1	N/A	Feb-27	Y	Increase in Transformer capacity - Replace the 2.5MVA transformer with a 6.3MVA unit LTDS Nodes: 86222	CV1 - Primary Reinforcement
Coshieville - Transformer Replacement	33/11	2.95	3	N/A	Dec-27	Y	Increase in Transformer capacity - Replace the 2.5MVA transformer with a 6.3MVA unit LTDS Nodes: 86222	CV1 - Primary Reinforcement
Errochty/Tummel Bridge Integration Works	33	N/A	N/A	69	Sep-29	Y	Transfer 5 x 33kV circuits from Tummel Bridge 33kV switchboard to the new Errochty 33kV switchboard LTDS Nodes: 20130	CV1 - Primary Reinforcement

Woodhill



Woodhill GSP Information

This GSP supplies the following primary substations:

- Queens Lane North
- Springhill
- Woodhill

Woodhill GSP is located within the Aberdeenshire region of the SHEPD licence area and currently supplies approximately 28,559 customers.

Table P2.83 Woodhill GSP reinforcement projects in initial development

Substation Name	Primary/Secondary Voltage (kV)	Forecast Completion Date	Project Description	Driver
Circuits to Springhill PSS	22	2035	N-1 outage of 1L5 or 2L5 causing circuit overload; mitigation via cable upgrade, flexibility, or 11kV load shedding.	CV1 - Primary Reinforcement
Woodhill PSS transformers	11	2035	N-1 outage of either transformer causes thermal overload; mitigation via transformer upgrade, flexibility, or reinstating Northfield.	CV1 - Primary Reinforcement

Table P2.84 Woodhill GSP reinforcement projects in detailed development and delivery

Substation Name	Primary/Secondary Voltage (kV)	Existing Capacity (MVA)	Updated Capacity (MVA)	Released Capacity (MVA)	Forecast Completion Date	Published DNOA	Project Description	Driver
Springhill 33/11kV Transformer Replacement	33/11	20.37	38.1	N/A	Feb-28	Y	Increase in Transformer capacity - replace both 15/21MVA transformers with 20/40MVA transformers and replace the 11kV switchboard with 25kA break / 62.5kA make rated switchgear LTDS Nodes: 85107	CV1 - Primary Reinforcement
Queens Lane North - Transformer and Switchgear Replacement	33/11	12.125	29.1	N/A	Jun-29	Y	Increase in Transformer capacity - Replace both 10/12.5MVA transformers with 15/30MVA units and replace the 11kV switchboard with 25kA break / 62.5kA make rated switchgear LTDS Nodes: 86400	CV1 - Primary Reinforcement

Appendix A: Summary of Associated DNOA Outcomes

Table P3.1 Published DNOA

Publication link	Reference number	Title	Relevant SDP
Mar-24	Ref. 0324-02	Abernethy, Kinross, Dollar	Errochty
Mar-24	Ref. 0324-07	Culloden (Inverness)	Inverness
Mar-24	Ref. 0324-11	Errochty - Tummel Bridge	Errochty
Mar-24	Ref. 0324-14	Inveralmond and Redgorton	Errochty
Mar-24	Ref. 0324-18	Tarland, Aboyne and Ballater	Persley
Jul-24	Ref. 0724-01	Aberdeen (Springhill PSS)	Persley
Jul-24	Ref. 0724-02	Dundee (Ashludie PSS)	Tealing
Jul-24	Ref. 0724-03	Kenmore (Coshieville PSS)	Errochty
Jul-24	Ref. 0724-05	Newtonhill (Newtonhill PSS)	Persley
Jul-24	Ref. 0724-06	Stoneywood (Stoneywood T1 & T2 and Circuits)	Persley
Jul-24	Ref. 0724-07	Calvine – Dalnaspidal (Calvine PSS)	Errochty
Jul-24	Ref. 0724-08	Dunoon & Isle of Bute (33kV circuits)	Inverarnan
Jul-24	Ref. 0724-10	Inverness (Waterloo Place PSS)	Inverness
Jul-24	Ref. 0724-12	Isle of Lewis (Gisla PSS)	Outer Hebrides and Skye

Jul-24	Ref. 0724-14	Shetland (Scalloway, Sandwick, & Sumburgh PSSs)	Shetland
Nov-24	Ref. 1124-01	Ardersier (Ardersier and Dalcross PSS)	Inverness
Nov-24	Ref. 1124-02	Ellon (Ellon PSS)	Persley
Nov-24	Ref. 1124-05	Isle of Skye & Wester Ross (Broadford GSP)	Outer Hebrides and Skye
Nov-24	Ref. 1124-06	Kippen and Callander (Braco West GSP)	Errochty
Nov-24	Ref. 1124-08	Northeast Aberdeenshire (Strichen 33kV Circuits)	Peterhead
Nov-24	Ref. 1124-09	Skulamus, Isle of Skye (Skulamus PSS)	Outer Hebrides and Skye
Jan-25	Ref. 0125-01	Banchory (Banchory PSS / Circuits)	Kintore
Jan-25	Ref. 0125-04	Stornoway (Barvas PSS)	Outer Hebrides and Skye
Jan-25	Ref. 0125-05	Stornoway (Coll PSS)	Outer Hebrides and Skye
May-25	Ref. 0525-01	Aberdeenshire (Midmar PSS)	Kintore
May-25	Ref. 0525-02	Achiltibuie (Grudie Bridge GSP)	Beauly
May-25	Ref. 0525-03	Ardnamurchan (Salen 2 PSS)	Fort Augustus
May-25	Ref. 0525-04	Arran (33kV) (Brodick and Machrie PSSs)	Port Ann and Carradale (Islay & Jura, Colonsay)
May-25	Ref. 0525-05	Broadford (Drynoch PSS and Lower Ollach PSS – New Site)	Ardmore
May-25	Ref. 0525-07	Dornoch (Dornoch PSS)	Mybster
May-25	Ref. 0525-08	Laxay (Laxay PSS)	Ardmore
May-25	Ref. 0525-09	North East Inverness (Raigmore PSS)	Inverness

Nov-25	Ref.1125-01	Aberdeen City (Queens Lane North PSS)	Persley
Nov-25	Ref.1125-02	Head of Loch Melfort (Kilmelford PSS)	Inverarnan
Nov-25	Ref.1125-03	Inverarary (Port Ann GSP)	Port Ann, Argyll and Bute
Nov-25	Ref.1125-04	Islay and Jura - Phase 1 (Carradale GSP 33kV Circuits)	Port Ann
Nov-25	Ref.1125-05	Isle of Skye (Portee PSS and Uig PSS)	Hebrides and Skye
Nov-25	Ref.1125-06	Kintyre (Port Ann 33kV Circuits)	Inverarnan
Nov-25	Ref.1125-07	North West Mull, Coll and Tiree (Dervaig PSS)	Taynuilt
Nov-25	Ref.1125-09	South of Loch Scridain (Kinloch PSS)	Taynuilt
Nov-25	Ref.1125-10	Southeast of Loch Lomind (Drymen PSS and Killearn)	Inverarnan
Nov-25	Ref.1125-11	West Coast of Scotland (Oban PSS)	Taynuilt
Mar-26	Ref.0326-02	Drymen - Aberfoyle (Strathleven GSP)	Inverarnan
Mar-26	Ref.0326-03	Fort William (Lochailort Regulator)	Fort Augustus
Mar-26	Ref.0326-04	Fort William (Fort William 33kV Network)	Fort Augustus
Mar-26	Ref.0326-05	Inverlocky (Inverlochy PSS)	Fort Augustus
Mar-26	Ref.0326-07	Moray (Elgin GSP & Ashgrove PSS)	Elgin
Mar-26	Ref.0326-08	Muir of Ord (Beauly GSP)	Beauly

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