

POC SELF DETERMINATION PROCESS

September 2022



Scottish & Southern
Electricity Networks



DETERMINING THE POINT OF CONNECTION (POC)

Independent Distribution Network Operators (IDNOs) and Independent Connection Providers (ICPs) that are suitably accredited under the National Electricity Registration Scheme (NERS) can self-determine their own POC onto our distribution network in certain circumstances.

As the appointed ICP, you will generally be able to self-determine your own POC where: -

- we can make all necessary network data available to them; and
- you can assess the demand load to be connected yourselves; and
- you have the relevant NERS accreditations to undertake design activities, i.e.:
 - **‘Electrical Design of Distribution Networks’** scopes that cover **‘Self Determination of Point of Connection (POC)’**, with voltage as relevant up to and including 132kV.

Caution: We limit this to specific market segments, voltages, and capacities.

Refer to our **‘POC Self Determination and Self Design Approval Guidance’** that is published on our [website](#) for details.

If you wish to self-determine the POC in relation to a Connection, you must submit a notice (a “POC Notice”) using the relevant SSEN online notification form.



ONLINE NOTIFICATION OF POC SELF DETERMINATION



ONLINE NOTIFICATION OF POC SELF DETERMINATION

Competition in connections



Notification of POC Self-identification

Notify us that you are determining the point of connection. (Before starting your application, please refer to our POC Self Identification and Self Design Approval Guidance.)

[Apply online](#)

Competition in connections

Application types

 <p>Independent Connection Provider (ICP) Application Make an application for an extended electricity network you wish to connect to our network and us to adopt.</p> <p>Apply online</p>	 <p>Independent Distribution Network Operator (IDNO) Application Make an application for an embedded electricity network you wish to connect to our network.</p> <p>Apply online</p>
 <p>Notification of POC Self-identification Notify us that you are determining the point of connection. (Before starting your application, please refer to our POC Self Identification and Self Design Approval Guidance.)</p> <p>Apply online</p>	 <p>Safety rules and authorisations Read more about each of the 3 processes ICPs can work under.</p> <p>Read more</p>



ONLINE NOTIFICATION OF POC SELF DETERMINATION

[Notify us of your POC self-identification](#)

POC Self-identification

Notify us of your Point of Connection (POC) Self-identification

[Notify us](#)



Notification of POC Self-identification

Notify us that you are determining the point of connection. (Before starting your application, please refer to our POC Self Identification and Self Design Approval Guidance.)

[Apply online](#)



ONLINE NOTIFICATION OF POC SELF DETERMINATION

Online Applications – Can only be accessed via an account login

If you have already logged in to your account, you can also notify us of your POC self-determination via the Online Applications portal.

POC Self-identification

Notify us of your Point of Connection (POC) self-identification.

[Notify us](#)

Online Applications

You can make applications online using our website. Please click below to choose from the options available.

Call us **0800 048 3516**
Email us connections@ssen.co.uk

Get Registered Before you can apply online, you will need to register. Click here to create an account. Create your account	Electric Vehicle / Heat Pump Applications You can now apply for EV/HP applications online. Apply Online		
Small New Connection You can apply online here for up to four new connections. Apply Online	Large New Connection You can apply online here for 5 or more connections. Apply Online	Service Alteration If you want to move the connection point and meter to a new location you can apply to us for a service alteration. Apply Online	Diversion If you need any of our existing overhead lines, underground cables, or electrical equipment diverted as part of your project, you can apply here. Apply Online
Microgeneration Apply here for a G99 connection for small embedded generators (PV, wind, micro hydro etc. for generation sites less than or equal to 50kW OR 17kW per phase). Apply Online	Distributed Generation Apply here for a G99 connection for large embedded generators (PV, wind, hydro etc. for generation sites greater than 50kW). Apply Online	Increase Electrical Capacity If you wish to increase or decrease your current electrical capacity (kVA/kW), or you wish to increase the fuse size (Amps) or if you are connecting additional equipment such as motors/pumps or welders etc. that may have an adverse affect on the network, please apply here. Apply Online	Unmetered Connection Apply here to connect, transfer or disconnect your supply where there is no meter. (E.G Street Lights, traffic signals, CCTV Cameras, telecoms cabinets etc). Apply Online
Self Quote Unmetered Online self-quoting facility for unmetered asset owners such as Local Authorities, Private Finance Initiatives and Parish Councils for standard highway works. Apply Online	Non Contestable ICP Apply for a point of connection for an electricity network connection you would like us to adopt. Apply Online	Non-Contestable IDNO Apply for a point of connection to serve a new embedded network within our distribution service areas. Apply Online	POC Self-identification Notify us of your Point of Connection (POC) self-identification. Notify us



ALTERNATIVE PROVIDER NETWORK INFORMATION



Scottish & Southern
Electricity Networks



ALTERNATIVE PROVIDER NETWORK INFORMATION

Where you are considering undertaking design activities for self-determining your own POC, you shall refer to our Standard Design Matrix (the “**Matrix**”) that is published on our [website](#) (TG-NET-ENG-005 SSEN Standard Design Matrix for POC Assessment). This Matrix details where generic design is acceptable for self-determining a POC, and where more detailed analysis is required, such as technical studies (e.g., network studies). This is highlighted in yellow in the Matrix.

Once you have assessed whether you can self-determine the POC, you shall then review the following network information that is published on our [website](#): -

- Geographical network records showing the location, size, and type of assets.
- Load information for the Distribution System, including guidance on the rules to be applied when allocating demand diversity of new and existing customers to circuits.
- Relevant planning and design standards, and other specifications – e.g. the Energy Network Association (ENA) Engineering Recommendation (EREC) G81.
- Asset sizes and ratings.
- Network operation diagrams.

[Tools and maps](#) / [Competition In Connections Secure Documents](#)



ALTERNATIVE PROVIDER NETWORK INFORMATION

Tools and maps



G81 Library

We have prepared a number of detailed design, technical specification and operational documents for the planning and design of connections to the network.

[G81 Library](#)



Cost Apportionment Register

Using the links on our page, you can download the most up to date Cost Apportionment Register for northern Scotland or central southern England.

[Cost Apportionment Register](#)



POC Self Identification Matrix & Self Design Approval Guidance

The POC Self Identification Matrix & Self Design Approval Guidance outlines the work that may be conducted by NERs accredited Alternative Providers and the analysis that must be carried out to ensure a safe and secure supply to our customers.

[Find out more](#)

Network capacity information

You can view our network capacity information detailing the rating and capacity of our network assets, view our long term development statements, network management maps, and more.

[Network capacity information](#)

Tools and maps



Networks maps

Use our new generation availability and contracted demand maps, which now includes EV charger location data.

[Network maps](#)



Demand calculator

Use our demand calculator to work out how much electricity you will need for your new connections project.

[Demand calculator](#)



Geographical Information System (GIS)

GIS provides a cross-technology end-to-end view of the electricity network, combining the fully connected electrical system with Google mapping systems. You must log in to use GIS.

[GIS](#)



Embedded capacity register (ECR)

The Embedded Capacity Register (ECR) has been developed to provide better information to electricity network stakeholders on connected resources and network requirements.

[Embedded capacity](#)



Long term development statements (LTDS)

Our Long term development statements (LTDS) are designed to help to identify and evaluate opportunities for entering into arrangements with us relating to use of the system or connection.

[LTDS](#)



Loading and rating / HV Schematics

We have compiled loading and maximum demand data for individual feeders and substations. This data has been prepared for both of our regions and will give you information about the local network to allow the analysis required to ensure a safe and secure supply when self identifying POCs.

[Loading and Rating / Schematics](#)



ALTERNATIVE PROVIDER NETWORK INFORMATION

Competition In Connections Secure Documents – Can only be accessed via an account login

Alternative Provider Network Information

Welcome to Scottish and Southern Electricity Networks website providing network information and data specifically for use by registered Alternative Providers - Independent Connection Providers (ICPs) and Independent Distribution Network Operators (IDNOs) - to enable design analysis to determine a suitable Point of Connection (POC) to our electricity distribution network.

Useful links

- ▶ [For ICPs and IDNOs](#)
- ▶ [Connections FAQs](#)
- ▶ [Guaranteed Standards](#)
- ▶ [Our Plans and Commitments](#)

G81 Design, Specification and Operational Documents	Network Geographical Information System (GIS)	HV Network Schematics
POC Self Identification Matrix & Self Design Approval Guidance	Network Rating and Loading Information	Cost Apportionment Register
G81 Design, Specification and Operational Documents for Comment	Safety Bulletins	



ALTERNATIVE PROVIDER NETWORK INFORMATION

[POC Design Guidance Matrix](#) – Can only be accessed via an account login

POC Self Identification Matrix & Self Design Approval Guidance

The POC Self Identification Matrix & Self Design Approval Guidance outlines the work that may be conducted by NERs accredited Alternative Providers and the analysis that must be carried out to ensure a safe and secure supply to our customers. This is split by the number and type of customers as well as the type of network and the level of generation or demand.

The document below details the minimum design standards for the identification of a Point of Connection.

[↓ POC Self Identification Matrix](#)

[↓ POC Self Identification and Self Design Approval Guidance Note](#)

Useful links

- [For ICPs and IDNOs](#)
- [Alternative Provider Network Information](#)
- [HV Network Schematics](#)
- [G81 Design and Specification Documents](#)
- [Network Rating and Loading Information](#)
- [Connections Help](#)





ALTERNATIVE PROVIDER NETWORK INFORMATION

Network Geographical Information System (GIS) – Can only be accessed via an account login

Refer to our “**GIS Symbol Legend**” document
[“REF-NET-COM-011 Electric Office (EO) Guide to Symbols”]

EO Web Login (ssen.co.uk)

Sign in to Electric Office Web

Network Geographical Information System (GIS)

Scottish and Southern Electricity Networks maintain a Network Geographical Information System (GIS) which represents the assets on the network in a geographical form.

The GIS tools will allow the identification of assets on the GIS during the network information.

Both Network regions are available using the link below.

[GIS Symbol legend](#)

[GIS Data request](#)

GIS Video Guide

[GIS Web User Guide](#)

Networks GIS

GIS Symbol legend and Data request

Below you can find a guide to the symbols used in our GIS Viewer and the process for requesting the data which makes up our maps:

- [GIS Symbol legend](#)
- [GIS Data request](#)

Useful links

- [Back to secure documents homepage](#)
- [For ICPs and IDNOs](#)
- [Alternative Provider Network Information](#)
- [Network Geographical Information System \(GIS\)](#)
- [HV Network Schematics](#)
- [G81 Design, Specification and Operational Documents](#)

Need help or have a question?
connectionsfeedback@sse.com



ALTERNATIVE PROVIDER NETWORK INFORMATION

[HV Network Schematics](#) – Can only be accessed via an account login

HV Network Schematics

The two links below allow access to the HV Network Schematics for the SSEN North and South regions. These documents when used with the Network Rating and Loading Data sheets will allow the assessment of POCs.

We strive to make this data accurate to assist you in designing your own connections. However, there may be changes in the network since the last update or there may be a query about certain data. If this is the case, please complete the [Secure Website Schematic, Load and Rating Data Query Form](#) and return to connections policy at connections.policy@sse.com.

We will respond to your query as soon as possible and this form will be used to assist in the update of this data.

Useful links

- [Back to secure documents homepage](#)
- [For ICPs and IDNOs](#)
- [Alternative Provider Network Information](#)
- [Network Geographical Information System \(GIS\)](#)
- [HV Network Schematics](#)
- [G81 Design, Specification and Operational Documents](#)



South Network Schematics

North Network Schematics





ALTERNATIVE PROVIDER NETWORK INFORMATION

[Network Rating and Loading Information](#) – Can only be accessed via an account login

Network rating and loading information

Scottish and Southern Electricity Networks have compiled loading and maximum demand data for individual feeders and substations. This data has been prepared for both of Scottish and Southern Electricity Networks regions and will give you information about the local network to allow the analysis required to ensure a safe and secure supply when self identifying POCs.

This data and the user guidance for each of our network regions are accessed using the appropriate link below.

We strive to make this data accurate to assist you in designing your own connections. However, there may be changes in the network since the last update or there may be a query about certain data. If this is the case, please complete the [Secure Website Schematic, Load and Rating Data Query Form](#) and return to connections policy at connections.policy@sse.com.

We will respond to your query as soon as possible and this form will be used to assist in the update of this data.

It is important to note that, in accordance with Clause 4.5.2 of the Energy Networks Association Competition in Connections Code of Practice, Scottish and Southern Electricity Networks may be unable to divulge data where in the opinion of Scottish and Southern Electricity Networks, such disclosure would result in the release of confidential information or be in breach of the Data Protection Act 1998 or any other law or licence obligation placed on Scottish and Southern Electricity Networks. In the event that such disclosure cannot be made, this fact will be confirmed to the party requesting the information

Useful links

- [Back to secure documents homepage](#)
- [For ICPs and IDNOs](#)
- [Alternative Provider Network Information](#)
- [HV Network Schematics](#)
- [Network Rating and Loading Information](#)
- [G81 Design, Specification and Operational Documents](#)



Southern Electric Power Distribution network

Scottish Hydro Electric Power Distribution network





ALTERNATIVE PROVIDER NETWORK INFORMATION

[G81 Design Specification and Operational Documents](#) – Can only be accessed via an account login

G81 Design, Specification and Operational Documents

Scottish and Southern Electricity Networks have prepared a number of detailed design, technical specification and operational documents for the planning and design of connections to the network.

We strive to make this as useful a resource as possible and if you have any suggestions about the documents please complete the [Website Document Management Request Form for ICPs and IDNOs](#) form and return to connections policy at connections.policy@sse.com

There are a number of categories which contain associated documents and these are in turn filterable to allow ease of use.

If you're unable to find a specific Standard design drawing for Overhead Lines (Towers and Wood Poles), Cables or Substations, please contact us by emailing connections.policy@sse.com.

Useful links

- [Back to secure documents homepage](#)
- [For ICPs and IDNOs](#)
- [Alternative Provider Network Information](#)
- [Network Geographical Information System \(GIS\)](#)
- [HV Network Schematics](#)
- [G81 Design, Specification and Operational Documents](#)

We have a new file transfer system which allows you to transfer files up to 30MB in size. This avoids you sending multiple emails to seek design approval for your project. Contact your designer (detailed on your job tracking) who can talk you through getting set up and grant you access.

All G81 Design, Specification and Operational Documents

Unmetered Connections

Low Voltage Cables and Terminations

Secondary Distribution Substations

6.6kV and 11kV Cables

22kV and 33kV Cables and Terminations

Operational Documents

Distributed Generation

Transmission

Joining Instructions

Safety Bulletins

G81 Design, Specification and Operational Documents for Comment

Product Update

Primary Distribution Substations

Overhead lines on wooden poles

EV, HP and BESS Specific

Grid Distribution Substations

Access to Infrastructure

Overhead Lines on Steel Towers



ALTERNATIVE PROVIDER NETWORK INFORMATION

You can also find our G81 documents via our [G81 Library](#) service and download them directly from our secure portal.

Page 1

 G81 Design and Operational Documents for Comment	 Secondary Distribution Substations	 Primary Distribution Substations
 Distributed Generation	 Grid Distribution Substation	 EV, HP and BESS Specific
 Unmetered Connections	 Low Voltage Cables and Terminations	 22kV and 33kV cables and terminations
 6.6 kV and 11 kV Cable and Terminations	 Jointing Instructions	

Page 2

 Overhead Lines on Wooden Poles	 Overhead Lines on Steel Towers	 Transmission
 Access to Infrastructure	 Safety Bulletins	 Operational Documents
 Product Update		

To download and view our G81 documents, you must sign in with your existing account details, or you can create a new account at [Register for an Online Account](#).



NOTIFICATION SUBMITTED – INFORMATION WE PROVIDE



NOTIFICATION SUBMITTED – INFORMATION WE PROVIDE

Once you have submitted the POC notice to us, including a POC map (confirming the location of the POC you have self-determined), we will aim to provide you with the following information free of charge within **five Working Days** from receiving the POC notice: -

- Details of any *Electricity Connection Charges Regulations 2017* (ECCR) second comer charges relating to connection assets.
- Details of any ECCR second comer charges relating to reinforcement works.
- Details of any contracted additional loads.
- Timescales for any upstream reinforcement that is planned but not available online.
- Any network constraints that may impinge on the connection.
- Any interactivity (as it occurs at the time of the POC notice).

*Where the POC notice is for small LV demand connections (up to four properties), we will aim to provide you with the following information free of charge within **two Working Days** from receiving the POC notice: -*

- *Details of any ECCR second comer charges relating to connection assets.*
- *Details of any ECCR second comer charges relating to reinforcement works.*



NOTIFICATION SUBMITTED – INFORMATION WE PROVIDE

- Details Where the POC notice is for a demand load $\leq 250\text{kVA}$, our Network Connections Design team will advise if any additional load information is identified for you to undertake your own HV network study. We will aim to confirm this to you within **five Working Days** from receiving the POC notice.
- Where the POC notice is for a demand load $> 250\text{kVA}$ but $\leq 500\text{kVA}$, our Network Planning team will be notified by our Network Connections Design team and will advise if any additional load information is identified for you to undertake your own HV network study. We will aim to confirm this to you within **five Working Days** from receiving the POC notice.

Note: We will not undertake the HV network study as you will be required to undertake such network study yourselves.

- Where the POC notice is for a demand load $> 500\text{kVA}$, our System Planning team will be notified by our Network Connections Design team and will advise if any EHV/132kV network study is required and/or any additional load information is identified.

There will be three potential outcomes: -



NOTIFICATION SUBMITTED – INFORMATION WE PROVIDE



- 1) No EHV/132kV network study required and no additional load information identified for you to undertake your own HV network study. We will aim to confirm this to you within **five Working Days** from receiving the POC notice.
- 2) No EHV/132kV network study required but additional load information is identified for you to undertake your own HV network study. We will aim to confirm this to you within **five Working Days** from receiving the POC notice.
- 3) EHV/132kV network study is required. As EHV/132kV network data information is not made available on our website, you will not be able to undertake such network study yourselves and you will not be able to self-determine your own POC either. We will have to undertake the EHV/132kV network study and determine the POC. We will aim to confirm this to you within **five Working Days** from receiving the POC notice.

Note: The POC Notice will then be processed as a standard POC application and you will be asked if you would like to receive a formal POC Offer from us or if you would like to cancel the application. Connection Offer Expenses (COE)* will apply if you wish to proceed with the standard POC application.

** Connection Offer Expenses are the costs that we incur in producing your Connection Offer. This includes processing the application; assessing the impact of the connection on the Distribution system; designing and costing the connection, including any reinforcement; and preparing the Connection Offer. Refer to our [website](#) where our COE guide is published.*



NEXT STEPS



NEXT STEPS

- Where you have self-determined your own POC successfully, you will advise us when your customer has accepted their Connection Offer which you have issued them with.
- You will then need to formalise a POC application with your already submitted POC plan (confirming the location of the POC you have self-determined).
- Where you have identified your own POC, Connection Offer Expenses will not apply.
- A formal POC Offer is required to secure the capacity requested for the connection. You should also advise us whether you wish to do the self-approval of your own contestable design.





THANK YOU



Scottish & Southern
Electricity Networks