POC SELF DETERMINATION PROCESS

Scottish & Southern

l'm fully electric

Ssen

September 2022





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.





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





Independent Connection Provider (ICP) Application Make an application for an extended electricity network you wish to connect to our network and us to adopt.

Apply online



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



Independent Distribution Network Operator (IDNO) Application

Make an application for an embedded electricity network you wish to connect to our network.

Apply online



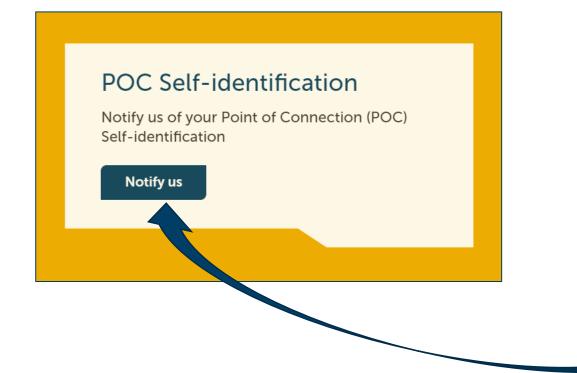
Safety rules and authorisations

Read more about each of the 3 processes ICPs can work under.

Read more



Notify us of your POC self-identification





Notification of POC Self-identification

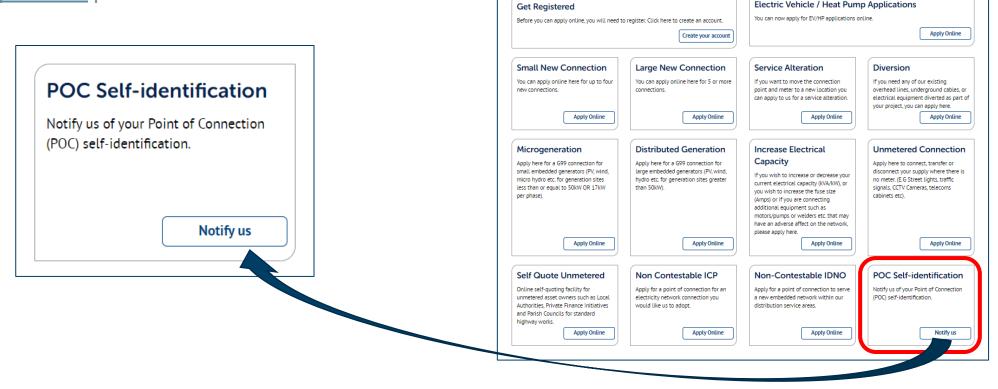
Notify us that you are determining the point of connection. (Before starting your application, please refer to our POC Self Identification and Self Design Approval Guidance.)

Apply online



Online 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 <u>Online Applications</u> portal.



Online Applications

choose from the options available.

You can make applications online using our website. Please click below to

Call us 0800 048 3516

Email us

Connections@ssen.co.uk





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 <u>website</u> (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 <u>website</u>: -

- 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



Tools and maps







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



Tools and maps







Geographical Information System (GIS)

GIS provides a cross-technology end-to-end view

connected electrical system with Google mapping systems. You must log in to use GIS.

of the electricity network, combining the fully

GIS

Networks maps

Network maps

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

Demand calculator

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

Demand calculator

LTDS



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.





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.



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

network to allow the analysis required to ensure a

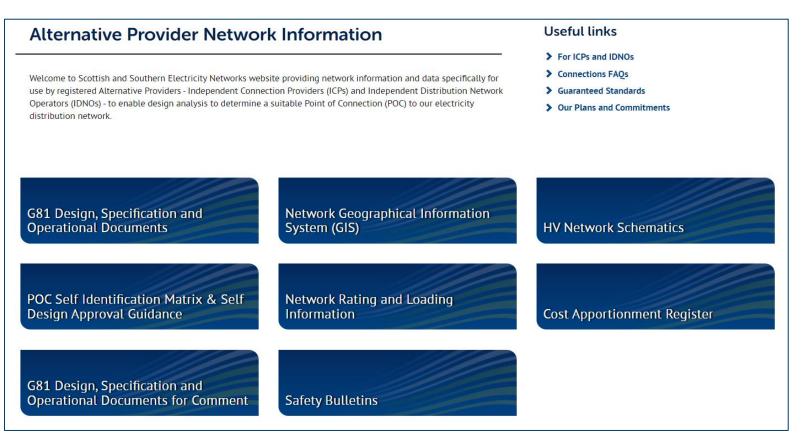
safe and secure supply when self identifying POCs.

and will give you information about the local

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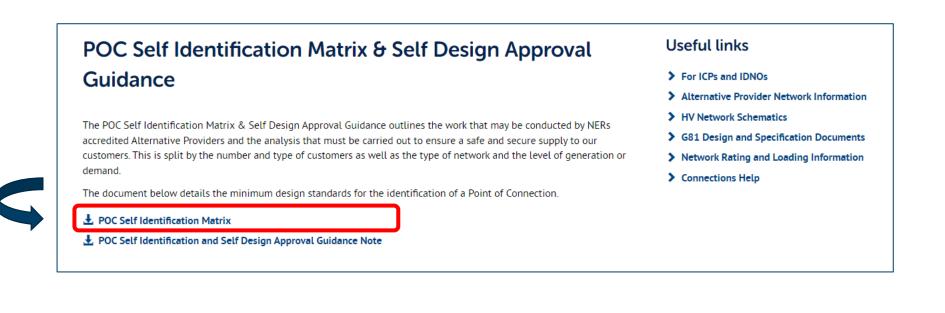


<u>Competition In Connections Secure Documents</u> – Can only be accessed via an account login



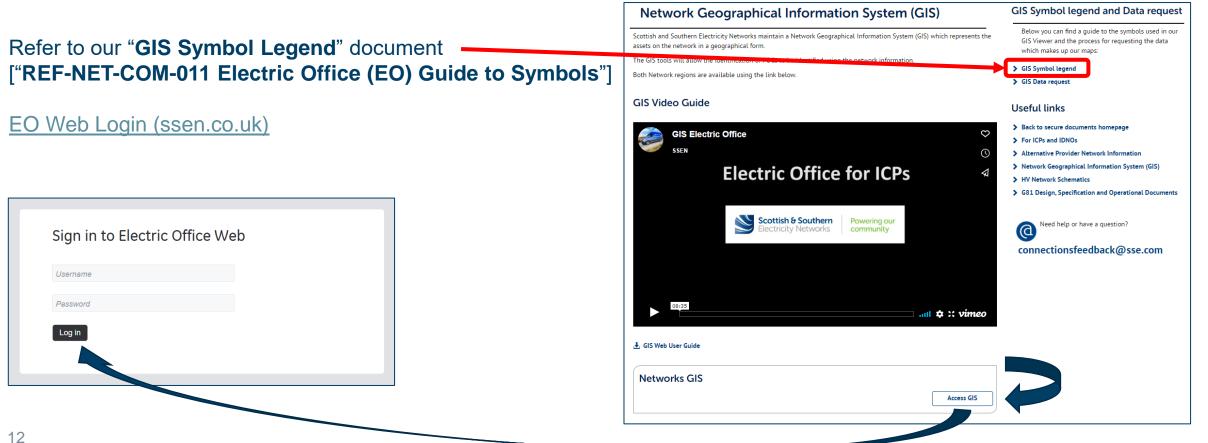


POC Design Guidance Matrix – Can only be accessed via an account login





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





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



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

Southern Electric Power Distribution

Scottish Hydro Electric Power Distribution network

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



<u>G81 Design Specification and Operational Documents</u> – Can only be accessed via an account login





You can also find our G81 documents via our <u>G81 Library</u> service and download them directly from our secure portal.

Page 1] [Page 2			
G81 Design and Operational Documents for Comment	Secondary Distribution Substations	Primary Distribution Substations		Overhead Lines on Wooden Poles	Overhead Lines on Steel Towers	Transmission	
Distributed Generation	Grid Distribution Substation	EV, HP and BESS Specific		Access to Infrastructure	Safety Bulletins	Operational Documents	
Unmetered Connections	Low Voltage Cables and Terminations	(a) 22kV and 33kV cables and terminations		Product Update			
6.6 kV and 11 kV Cable and Terminations	Jointing Instructions						

To download and view our G81 documents, you must sign in with your existing account details, or you can create a new account at <u>Register for an Online Account</u>.





Once you have submitted the POC notice to us, including a POC map (confirming the location of the POC you have selfdetermined), 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.



- Details Where the POC notice is for a demand load ≤ 250kVA, 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 > 250kVA but ≤ 500kVA, 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 > 500kVA, 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: -



- 1) <u>No</u> EHV/132kV network study required and <u>no</u> 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) <u>No</u> EHV/132kV network study required but additional load information <u>is identified</u> 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 <u>is required</u>. 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 <u>website</u> where our COE guide is published.





•••• 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.





