

# Competition in Connections Code of Practice Reporting 2018-19 Appendices

(April 2018 – March 2019)

SP Manweb  
and  
SP Distribution

September 2019



# Contents

## Appendix 1 – Website Pages

pages 4 to 21

- i)* Getting Connected
- ii)* Connections Customer Process
- iii)* Other Connection Providers (you have a choice)
- iv)* Alternative Providers Who Can Do the Work?
- v)* Competition in Connections Code of Practice
- vi)* Self-Determination of Point of Connection
- vii)* Standard Design Matrix
- viii)* Transformer Loadings
- ix)* Documents
- x)* Self-Design Approval
- xi)* Requesting a Meter Point Administration Number
- xii)* Authorisation and Accreditation
- xiii)* Land Rights and Consents
- xiv)* Connection Agreements
- xv)* Construction and Adoption
- xvi)* Escalation Process

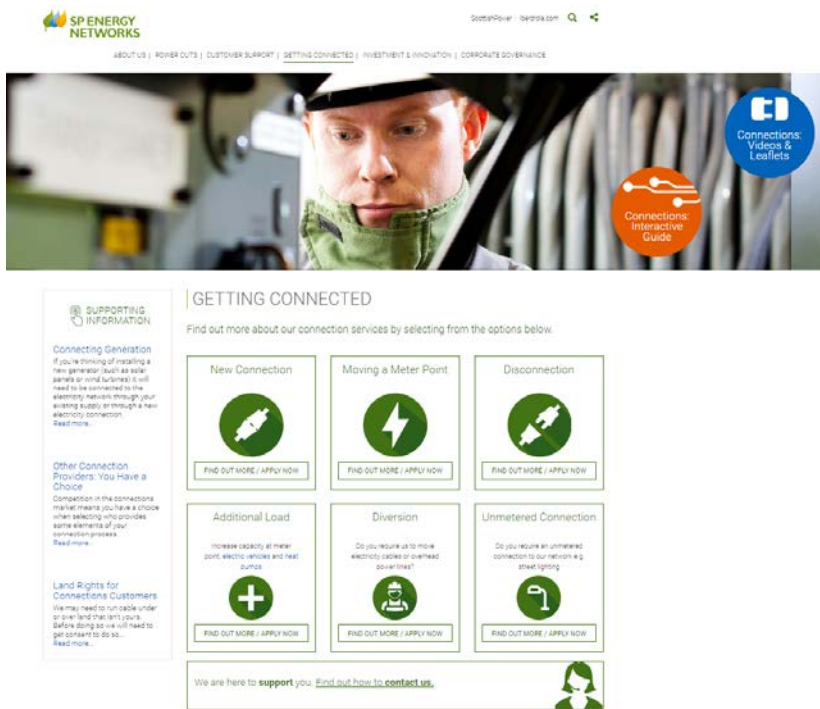
## Appendix 2 – UMV and Transformer Loading Database screenshots pages 22 to 25

- i)* UMV/GND/Power On Portal screen
- ii)* UMV SPM data screen example
- iii)* UMV Street Level screen
- iv)* UMV Radial HV network
- v)* Transformer Loading Database portal screen
- vi)* Transformer Loading Database example screen

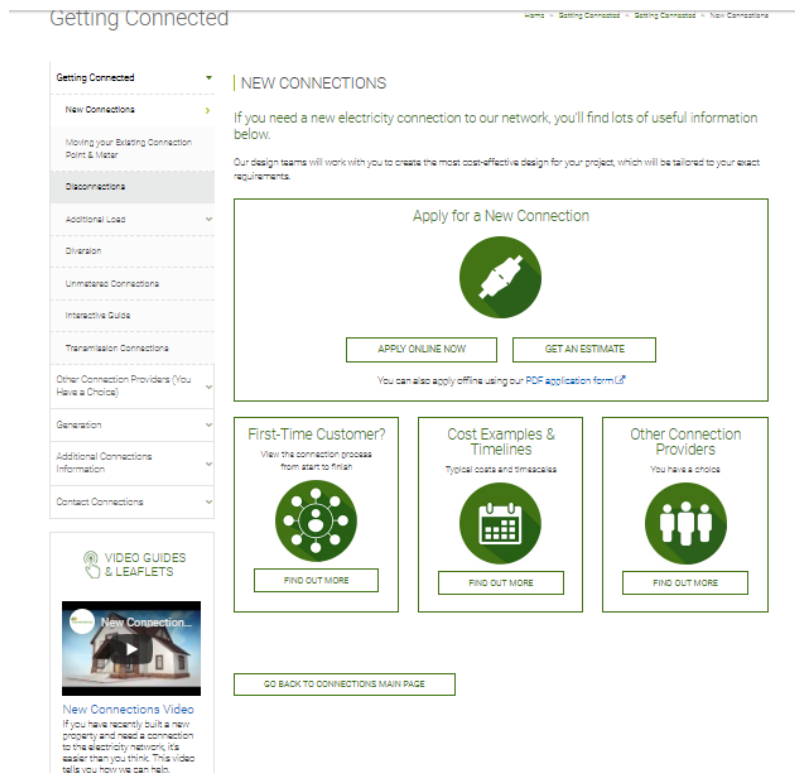
# Appendix 1 – Website Pages

## i) Getting Connected

[https://www.spenergynetworks.co.uk/pages/which\\_type\\_of\\_connection.aspx](https://www.spenergynetworks.co.uk/pages/which_type_of_connection.aspx)



[https://www.spenergynetworks.co.uk/pages/new\\_connections.aspx](https://www.spenergynetworks.co.uk/pages/new_connections.aspx)



## ii) Connections: Customer Process

Select [https://www.spenergynetworks.co.uk/pages/getting\\_connected.aspx](https://www.spenergynetworks.co.uk/pages/getting_connected.aspx) and press the blue button “Connections Videos and Leaflets” which will take you to [https://www.spenergynetworks.co.uk/pages/connections\\_videos\\_and\\_leaflets.aspx](https://www.spenergynetworks.co.uk/pages/connections_videos_and_leaflets.aspx)

The screenshot shows the 'Getting Connected' page on the SP Energy Networks website. The page features a navigation menu at the top with links for 'ABOUT US', 'POWER OUTS', 'CUSTOMER SUPPORT', 'GETTING CONNECTED', 'INVESTMENT & INNOVATION', and 'CORPORATE GOVERNANCE'. Below the navigation is a banner image with the text 'Getting Connected' and a breadcrumb trail: 'Home > Getting Connected > Additional Connections Info... > Connections Videos and Leaflets'.

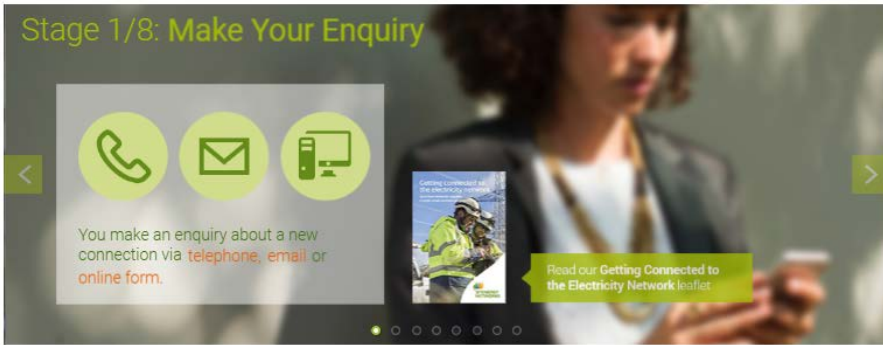
The main content area is titled 'CONNECTIONS VIDEOS AND LEAFLETS' and includes a sub-header 'Below you can find the latest editions of our helpful connections leaflets and videos.' Underneath, there is a section for 'Connections Leaflets' displaying a grid of eight leaflet covers, each with a 'Welsh Language' link. The leaflets are: 'Connecting Distributed Generation', 'Getting connected to the electricity network', 'Connections - a handy guide', 'Setting your meter connected', 'Your connection offer explained', 'Disconnecting an electricity supply', 'Getting connected to the electricity network', and 'Getting your commercial meter fitted'.

Below the leaflets, there are two more leaflets: 'Connection offers explained CUSTOMER GUIDE' and 'Connecting you with a choice'. To the left of the leaflet grid is a sidebar with a 'SUPPORTING INFORMATION' section containing text about 'Connecting Generation' and 'Other Connection Providers: You Have a Choice'. Below this is a 'Land Rights for Connections Customers' section.

The bottom section of the page is titled 'Video Guides' and features four video thumbnails with play buttons. The videos are: 'New Connections' (showing a house), 'Disconnections' (showing two people), 'Moving your connection point' (showing hands pointing at a plan), and 'Connecting Renewable Energy' (showing solar panels).

You then choose "New Connection"

[https://www.spenergynetworks.co.uk/pages/customer\\_process\\_new\\_connection.aspx](https://www.spenergynetworks.co.uk/pages/customer_process_new_connection.aspx) which will then take you through an 8 step process, providing you with links to information and leaflets/documents; examples of the stages are shown below.



iii) Other Connection Providers (you have a choice)

[https://www.spenergynetworks.co.uk/pages/competition\\_in\\_connections.aspx](https://www.spenergynetworks.co.uk/pages/competition_in_connections.aspx)

#### iv) Who can do the work?

<https://www.spenergynetworks.co.uk/pages/who-can-do-the-work.aspx>

The screenshot shows the 'Getting Connected' section of the SP Energy Networks website. The page title is 'WHO CAN DO THE WORK?'. It explains that users can choose who carries out certain elements of the connection work, known as contestable work, which can be completed by an Independent Connection Provider (ICP) or an Independent Distribution Network Operator (IDNO). The page lists 'Alternative Connection Providers' and provides a link to view the list. It also states that ICPs and IDNOs must possess appropriate accreditations and provides links for further information on ICPs and IDNOs. A list of accredited ICP and IDNO companies can be found on the Lloyds Register website. If you are a Connections Provider and would like your company to be listed, please email [gettingconnectedupdate@spenergynetworks.co.uk](mailto:gettingconnectedupdate@spenergynetworks.co.uk).

#### v) Competition in Connections Code of Practice

<https://www.spenergynetworks.co.uk/pages/competitions-in-connections-code-of-practice.aspx>

The screenshot shows the 'Getting Connected' section of the SP Energy Networks website. The page title is 'CODE OF PRACTICE'. It states that in June 2014 Ofgem opened their review of the market for new connections to the electricity distribution network. They subsequently published, in January 2015, their proposed solutions to the issues identified and the best way to implement them. Distribution Network Operators (DNOs) were tasked with developing a Code of Practice (CoP) in consultation with stakeholders and this was completed collectively with the Electricity Networks Association (ENA). The resultant Code of Practice was approved by Ofgem in July 2015, with an implementation date of October 2015. The Competition in Connections Code of Practice can be found [here](#). The ENA have created an additional site specifically for the Code of Practice. For further details please go to [www.connectionscode.org.uk](http://www.connectionscode.org.uk). The Competition in Connections Code of Practice requires DNOs to publish an annual report to demonstrate their compliance with the code. Our Annual Report for the reporting period 2017-18 can be found [here](#). The page lists the following reports: Competition in Connections Code of Practice Report 2017-18 and Competition in Connections Code of Practice Reporting 2017-18 Appendices. Other pages in this section include: Transformer Loadings, Self Determination of Point of Connection, Standard Design Matrix, Self Design Approval, Authorisation and Accreditation, and Workshop Presentations.

vi) Self-Determination of Point of Connection

[https://www.spenergynetworks.co.uk/pages/self\\_determination\\_of\\_point\\_of\\_connection.aspx](https://www.spenergynetworks.co.uk/pages/self_determination_of_point_of_connection.aspx)



Getting Connected

Home > Getting Connected > Other Connection Providers... > Information for ICPs and IDOs > Code of Practice > Self-Determination of Point...

- Getting Connected
- Other Connection Providers (You Have a Choice)
- Who Can Do the Work?
- What Work Can be Done?
- Who Regulates Our Connection Business?
- Information for ICPs and IDOs
- Extending the Scope of ICP Work
- Guidance & Information
- Code of Practice
- Transformer Loadings
- Self-Determination of Point of Connection
- Standard Design Matrix
- Self-Design Approval
- Authorisation and Accreditation
- Workshop Presentations
- Documents
- How to Contact OIC
- Generation
- Additional Connections Information
- Contact Connections

**SELF DETERMINATION OF POINT OF CONNECTION**

Independent Connection Providers (ICPs) shall be able to self-determine the Point of Connection (POC) in the majority of circumstances, as outlined in the table below.

At this time, some market segments have been excluded due to the technical complexity and/or network constraints which result in a high incidence of interactive POCs having to be managed. We will work with ICPs to develop processes to open these market segments in the future.

Relevant Market Segment	Self-approval of designs available (Yes/No)	Comments
LV Demand	Yes*	Subject to restrictions
HV Demand	Yes*	Subject to restrictions
HV / EHV Demand	No	Currently due to technical nature, complexity of designs and significant impact on network.
EHV/132kV Demand	No	Currently due to technical nature, complexity of designs and significant impact on network.
DG LV	Yes*	Subject to restrictions
DG HV / EHV	No	Impacted by a high level of interactivity
UMS LA	Yes	
UMS Other	Yes	
UMS PFI	Yes	

\*Subject to the following restrictions:

- Where the requirement for reinforcement is identified
- There exists interactivity with other quotations

Please see our process document [ESDD-02-021 Guidance for Self-Determination of Point of Connection and Self-Design Approval for Independent Connection Providers](#).

The self-determined process in full can be seen on the [high level process map](#)

There is a probationary period to be able to complete the self-determination which is detailed in the above document and in the table of qualifying criteria below

**Self Determine POC Qualifying Criteria**

Level	Criteria
1	Complete a briefing with SPEN and enter into a probationary period for each RMS category - complete 5 projects in parallel (normal costs apply) and if no issues move to level 2.
2	ICP fully able to self-determine POC

Please see our Standard Design Matrix which supports the guidance provided within ESDD-02-021.



## vii) Standard Design Matrix

[https://www.spenergynetworks.co.uk/pages/standard\\_design\\_matrix.aspx](https://www.spenergynetworks.co.uk/pages/standard_design_matrix.aspx)



ScottishPower | Iberdrola.com

ABOUT US | POWER CUTS | CUSTOMER SUPPORT | **GETTING CONNECTED** | INVESTMENT & INNOVATION | CORPORATE GOVERNANCE



### Getting Connected

Home > Getting Connected > Other Connection Providers > Information for ICPs and IDNs > Code of Practice > Standard Design Matrix

- Getting Connected
- Other Connection Providers (You Have a Choice)
- Who Can Do the Work?
- What Work Can be Done?
- Who Regulates Our Connection Business?
- Information for ICPs and IDNs
- Extending the Scope of ICP Work
- Guidance & Information
- Code of Practice
- Transformer Loadings
- Self Determination of Point of Connection
- Standard Design Matrix
- Self Design Approval
- Authorisation and Accreditation
- Workshop Presentations
- Documents
- How to Contact DfC
- Generation
- Additional Connections Information
- Contact Connections

## STANDARD DESIGN MATRIX

### Standard Design Matrix

Some Point of Connection designs can be determined using a Standard Design Matrix, shown below. This Matrix is also detailed within the process document ESDD-002-021, along with some guidance, and can be found here.

CRITERIA	MEASUREMENT	COMMENT
Connection capacity	<=500W (unmetered suppliers)	4mm Service cable should only be used where service cut-out is within 5mtrs of the LV mains cable with the exception of road crossing where up to 15 mtrs can be considered. Alternatively <=25m (25mm) Cable to be considered.
Distance to substation	<=500m	
Service cable length	<=5m (4mm) or <=25m (25mm)	
Transformer capacity	N/A	
Asset types excluded	<ul style="list-style-type: none"> <li>Cable of imperial size less than 0.1 square inch copper.</li> <li>Cable of metric size &lt;95mm<sup>2</sup></li> <li>Concentric cables look for cables marked as 2 core with imperial sizes, TOLC (SPM TRCO), (triple concentric lead covered), marked as ex dc (direct current) cables.</li> <li>Three core LV cables - 2 phase and neutral.</li> <li>Cables indicated as operating (Bunched) - check the various layers available on UMW for PILC LV cables marked as 3 Some cables we are unable to join live.</li> <li>Belgium cables and Consac.</li> <li>Interconnectors with no existing connected customers.</li> </ul>	

CRITERIA	MEASUREMENT	COMMENT
Connection capacity	<=6kW (non domestic only)	A full Network modelling analysis is required if: <ul style="list-style-type: none"> <li>The Distance from the Substation exceeds 250mtrs</li> <li>Embedded generation enquiries above 16 Amps per phase (Generation subject to the requirements of ENA G83/multiple connections or ENA G59)</li> </ul>
Distance to substation	<=250m	
Service cable length	<=25m	
Transformer capacity	N/A	
Asset types excluded	<ul style="list-style-type: none"> <li>Cable of imperial size less than 0.1 square inch copper.</li> <li>Cable of metric size &lt;95mm<sup>2</sup></li> <li>Concentric cables look for cables marked as 2 core with imperial sizes, TOLC (SPM TRCO), (triple concentric lead covered), marked as ex dc (direct current) cables.</li> <li>Three core LV cables - 2 phase and neutral.</li> <li>Cables indicated as operating (Bunched) - check the various layers available on UMW for PILC LV cables marked as 3 Some cables we are unable to join live.</li> <li>Belgium cables and Consac.</li> <li>Interconnectors with no existing connected customers.</li> </ul>	

CRITERIA	MEASUREMENT	COMMENT
Connection capacity	Up to 4 Domestic (<=2kW ADMD each)	Existing 5kVA pole mounted transformers will not provide sufficient capacity to cater for additional connections.
Distance to substation	<=250m	
Service cable length	<=25m	
Transformer capacity	N/A for ground mounted substation. System checks required for PTE (Pole Mounted Transformers)	A Full Network modelling analysis is required if: <ul style="list-style-type: none"> <li>The Distance from the Substation exceeds 250mtrs</li> <li>Embedded generation enquiries above 16 Amps per phase (Generation subject to the requirements of ENA G83/multiple connections or ENA G59)</li> </ul>
Asset types excluded	<ul style="list-style-type: none"> <li>Cable of imperial size less than 0.1 square inch copper.</li> <li>Cable of metric size &lt;95mm<sup>2</sup></li> <li>Concentric cables look for cables marked as 2 core with imperial sizes, TOLC (SPM TRCO), (triple concentric lead covered), marked as ex dc (direct current) cables.</li> <li>Three core LV cables - 2 phase and neutral.</li> <li>Cables indicated as operating (Bunched) - check the various layers available on UMW for PILC LV cables marked as 3 Some cables we are unable to join live.</li> <li>Belgium cables and Consac.</li> <li>Interconnectors with no existing connected customers.</li> </ul>	

CRITERIA	MEASUREMENT	COMMENT
Connection capacity	Single Connection <=69kW	Existing 5kVA pole mounted transformers will not provide sufficient capacity to cater for additional connections.  A Full Network modelling analysis is required if: <ul style="list-style-type: none"> <li>The maximum length of any service Cable exceeds 10mtrs. Note no services to exceed 25mtr</li> <li>There are 50 or more customers already on the LV feeder</li> <li>The assessed loading is 90% or greater than the existing capacity of the circuit.</li> <li>The proposed new load includes starting currents in excess of 15 Amps</li> <li>Embedded generation enquiries above 16 Amps per phase (Generation subject to the requirements of ENA G83/multiple connections or ENA G59)</li> </ul>
Distance to substation	<=200m	
Service cable length	<=10mtrs (No Study required), >10 <=25m (Study required)	
Transformer capacity	System checks required for PTE (Pole Mounted Transformers) and ground mounted substations	
Asset types excluded	<ul style="list-style-type: none"> <li>Cable of imperial size less than 0.1 square inch copper.</li> <li>Cable of metric size &lt;95mm<sup>2</sup></li> <li>Concentric cables look for cables marked as 2 core with imperial sizes, TCLO (SPM TRCO), (triple concentric lead covered), marked as ex do (direct current) cables.</li> <li>Three core LV cables - 2 phase and neutral.</li> <li>Cables indicated as operating (Bunched) - check the various layers available on UM/V for PILC LV cables marked as 3 Some cables we are unable to join live:</li> <li>Belgium cables and Consac.</li> <li>Interconnectors with no existing connected customers.</li> </ul>	

viii) Transformer Loadings

[https://www.spenergynetworks.co.uk/pages/transformer\\_loadings.aspx](https://www.spenergynetworks.co.uk/pages/transformer_loadings.aspx)



Getting Connected

Home > Getting Connected > Other Connection Providers... > Information for ICPs and IDL > Code of Practice > Transformer Loadings

- Getting Connected ▾
- Other Connection Providers (You Have a Choice) ▾
- Who Can Do the Work?
- What Work Can be Done?
- Who Regulates Our Connection Business?
- Information for ICPs and IDNOs ▾
- Extending the Scope of ICP Work
- Guidance & Information ▾
- Code of Practice ▾
- Transformer Loadings >
- Self Determination of Point of Connection

TRANSFORMER LOADINGS

To facilitate the self-determination of POCs information of transformer loading is required which is detailed below. Document ESDD-02-021 details the process for self-determination (reference Section 11).

Please see below the Zip files for SPM and SPD and the associated instructions for use:

[Click here for instructions](#)

- [Transformer Loading 2018 South](#)
- [Transformer Loading 2018 North](#)

ix) Documents

[https://www.spenergynetworks.co.uk/pages/competition\\_in\\_connections\\_documents.aspx](https://www.spenergynetworks.co.uk/pages/competition_in_connections_documents.aspx)

SP ENERGY NETWORKS

ScottishPower | Iberdrola

ABOUT US | POWER CUTS | CUSTOMER SUPPORT | GETTING CONNECTED | INVESTMENT & INNOVATION | CORPORATE GOVERNANCE

Getting Connected

Other Connection Providers (You Have a Choice)

- Who Can Do the Work?
- What Work Can be Done?
- Who Regulates Our Connection Business?

Information for ICPs and IDNOs

- Extending the Scope of ICP Work

Guidance & Information

- Code of Practice

Documents

- Connection Agreements

DOCUMENTS

Within this section we provide a range of documentation.

- Connection agreements
- Construction & adoption agreements
- Customer Leaflets
- Policies, Procedures and Specifications: Documentation
- Keeping you Informed (our newsletters)

Connections: Interactive Guide

<https://www.spenergynetworks.co.uk/pages/documents.aspx>

SP ENERGY NETWORKS

ScottishPower | Iberdrola

ABOUT US | POWER CUTS | CUSTOMER SUPPORT | GETTING CONNECTED | INVESTMENT & INNOVATION | CORPORATE GOVERNANCE

About Us

What We Do

Stakeholders

News and Media

Document Library

- Customer Leaflets
- Regulatory Information
- Connections, Use of System and Metering Services
- Safety Documents
- Policies, Procedures and Specifications: Documentation
- Additional Information
- Modern Slavery Statement

POLICIES, PROCEDURES AND SPECIFICATIONS: DOCUMENTATION

In this area of our website you will find our most regularly requested and downloaded policies, procedures and specifications. Please click on the + to list the documents. If the document you are looking for is not listed, please complete the Online Request Form

We continually update this page by adding, replacing or removing documents. Please check back regularly to ensure you are using the most current version.

- Approved Equipment
- Overhead Lines
- Policy & System Design
- Substations
- Underground Cables
- Authorisation Procedure
- Connection Process

Online Request Form

If the document you are looking for is not listed, please complete the form.

x) Self-Design Approval

[https://www.spenergynetworks.co.uk/pages/self\\_design\\_approval.aspx](https://www.spenergynetworks.co.uk/pages/self_design_approval.aspx)



Getting Connected

Home > Getting Connected > Other Connection Providers... > Information for ICPs and IDNs > Code of Practice > Self-Design Approval

- Getting Connected
- Other Connection Providers (You Have a Choice)
- Who Can Do the Work?
- What Work Can be Done?
- Who Regulates Our Connection Business?
- Information for ICPs and IDNs
- Extending the Scope of ICP Work
- Guidance & Information
- Code of Practice
- Transformer Loadings
- Self-Determination of Point of Connection
- Standard Design Matrix
- Self-Design Approval
- Authorisation and Accreditation
- Workshop Presentations
- Documents
- How to Contact CIC
- Generation
- Additional Connections Information
- Contact Connections

SELF DESIGN APPROVAL

Independent Connection Providers (ICPs) shall be able to complete self-design approval in the majority of circumstances, as outlined in the table below.

At this time, some market segments have been excluded due to the technical complexity and/or network constraints. We will work with ICPs to develop processes to open these market segments in the future.

Relevant Market Segment	Self-approval of designs available (Yes/No)	Comments
LV demand	Yes*	Subject to restrictions
HV demand	Yes*	Subject to restrictions
HV/EHV demand	No	Currently due to technical nature, complexity of designs and significant impact on network.
EHV/132kV demand	No	Currently due to technical nature, complexity of designs and significant impact on network.
DG LV	Yes*	Subject to restrictions
DG HV/EHV	No	Currently due to technical nature, complexity of designs and significant impact on network.
UMS LA	Yes	
UMS Other	Yes	
UMS PFI	Yes	

\* Subject to the following restrictions:

- Where Contestable design requires incorporation of a constraint and monitoring scheme
- Diversion of Existing Assets (affecting existing Substation assets)

Please see our process document [ESDD-02-021 Guidance for Self-Determination of Point of Connection and Self-Design Approval for Independent Connection Providers](#). There is a probationary period to be able to complete the self-design approval which is detailed in the above document and in the table of qualifying criteria below.

The self-determined process in full can be seen on the [high level process map](#).

Self-Design Approval Qualifying Criteria

Level	Criteria
1	Complete a briefing with SPEN and enter into a probationary period for each RMS category - complete 5 projects in parallel (normal costs apply) and if no issues move to level 2
2	ICP fully able to self-approve contestable designs

# xi) Requesting a Meter Point Administration Number

[https://www.spenergynetworks.co.uk/pages/mpan\\_request.aspx](https://www.spenergynetworks.co.uk/pages/mpan_request.aspx)



## Getting Connected

Home > Getting Connected > Other Connection Providers... > Information for ICPs and ID... > Guidance & Information > Requesting a Meter Point A...

- Who Can Do the Work?
- What Work Can be Done?
- Who Regulates Our Connection Business?
- Information for ICPs and IDNOs
  - Extending the Scope of ICP Work
- Guidance & Information
  - RADAR Training Materials
  - Tracking Your Project
  - Metered and Unmetered Connections Guides
  - Adopted Distributed Generation
  - Gaining Authorisation to our Network
  - Utility Map Viewer
- Requesting a Meter Point Administration Number
- Code of Practice
- Documents
- How to Contact CIO

### REQUESTING A METER POINT ADMINISTRATION NUMBER

The process for the provision and registering of MPANs for premises that will connect to Connection Works that the DNO will adopt is detailed in the process map below:

Before proceeding to the MPAN request form please ensure that you read the guidance document on the link below.

- [Please click here to open the MPAN request form guidance](#)

See Email Information

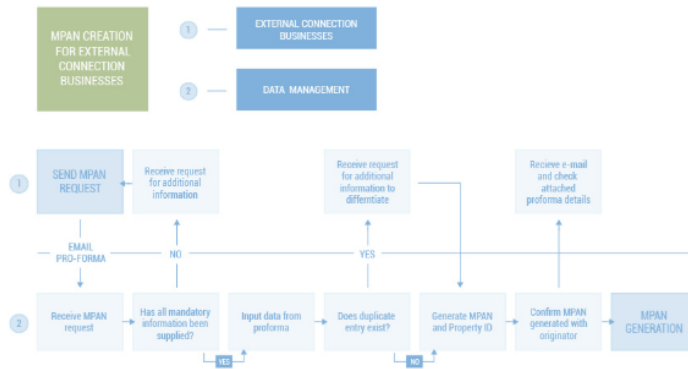
The MPAN request document below provides you with the request form, guidance information, plus examples of completed application forms.

- [Please click here to open the MPAN request form](#)

Notification of all MPANs generated will be issued to the requestor once completed.

Please be advised that there is a phased approach for issue, e.g. if a builder requests one hundred MPANs for a new housing site these would be provided in phases, i.e. 20 MPANs to begin and once those houses are built a further 20, etc.

#### MPAN PROCESS MAP



## xii) Authorisation and Accreditation

[https://www.spenergynetworks.co.uk/pages/authorisation\\_and\\_accreditation.aspx](https://www.spenergynetworks.co.uk/pages/authorisation_and_accreditation.aspx)

Getting Connected	<b>AUTHORISATION AND ACCREDITATION</b>
Other Connection Providers (You Have a Choice)	<b>Accreditations</b>
Who Can Do the Work?	<ul style="list-style-type: none"><li>Accreditation means accreditation awarded to an ICP under the National Electricity Registration Scheme (NERS).</li><li>ICPs accredited under NERS to undertake specific contestable activities shall be deemed to be competent to undertake such activity normally.</li><li>In all cases where NERS accreditation is not available SPEN will work with the scheme administrator to implement a scope change to cover the relevant activity consistent with the Relevant Objectives which are detailed within Section 2.3 of the Code of Practice which can be found <a href="#">here</a>.</li></ul>
What Work Can be Done?	
Who Regulates Our Connection Business?	
Information for ICPs and IDNOs	<b>Authorisations</b>
Extending the Scope of ICP Work	SPEN accept that ICPs administer and control their own Safety Management systems (SMS) and to enable more flexibility and control within the ICP, SPEN allows all ICPs to work under their own safety rules. The details of which can be found within document CON-04-002 Process for LV and HV connections activities under SPEN and ICP's DSRs, which is available on our website <a href="#">here</a> .
Guidance & Information	Under the changes that have been implemented for the Code of Practice SP Energy Networks (SPEN) is committing to the 3 options that are available and would ask any ICP that is interested to contact us directly and we will work together to enable their access to their preferred option.
Code of Practice	Please see our guide to gaining Authorisation to SPEN <a href="#">here</a> .
Transformer Loadings	The 3 options are detailed below:
Self Determination of Point of Connection	<b>Option 1 - ICP authorisation of ICP Employees and Contractors</b>
Standard Design Matrix	<ul style="list-style-type: none"><li>ICPs shall operate under their own SMS, including the ICP's Safety Rules, which shall be of an equivalent relevant standard to SPEN's (in all cases the SMS should align to OHSAS18001 or equivalent).</li><li>ICPs are responsible for determining the relevant competence requirements for the work to be undertaken and for the issue of an appropriate authorisation to their employees or contractors. The relevant competence requirements shall include any network specific issues identified by the ICP following consultation and communication with SPEN.</li><li>ICPs shall provide, if requested, details of their SMS to SPEN before first accessing SPEN's Distribution System.</li><li>ICPs shall thereafter provide, when required, reasonable information regarding their ongoing SMS to SPEN.</li><li>SPEN will be entitled to carry out reasonable checks on the application of the relevant SMS to demonstrate so far as reasonably practicable to the Health and Safety Executive (or other interested parties) that safety assurance is in place for any ICP working on its Distribution System.</li><li>Either party shall make available to the other relevant policies, operational processes, local information and procedures as required to facilitate safe working on SPEN's Distribution System. This may be in writing or by personal briefing as may be appropriate, but in all cases the information exchanged shall be recorded and such records must be held for future reference by each party.</li></ul>
Self Design Approval	
<b>Authorisation and Accreditation</b>	<b>Option 2 - DNO authorisation of ICP Employees</b>
Workshop Presentations	<ul style="list-style-type: none"><li>ICPs shall operate under SPEN's SMS, including SPEN's version of the Model Distribution Safety Rules.</li><li>SPEN will determine the relevant competence requirements and issue authorisations to the ICP's employees or contractors.</li><li>SPEN will be entitled to undertake appropriate checks to demonstrate, so far as is reasonably practicable, that the ICP's employee or contractor has an appreciation of network hazards and local procedures.</li><li>SPEN shall take account of authorisations issued by other DNOs in order to minimise circumstances where repeat authorisation assessments are required for work on different DNOs' Distribution Systems.</li><li>The charges to get authorised must be cost-reflective and opportunities to be authorised must be available on a sufficiently frequent basis.</li><li>Each party shall make available to the other the relevant policies, operational processes, local information and procedures as required to facilitate safe working on SPEN's Distribution System. This may be in writing or by personal briefing as may be appropriate, but in all cases the information exchanged shall be recorded and such records must be held for future reference by each party.</li></ul>
Documents	
How to Contact CiD	<b>Option 3 - Transfer of Control</b>
Generation	<ul style="list-style-type: none"><li>SPEN shall transfer control of a specified part of its Distribution System for the purposes of the ICP's activity.</li><li>The ICP shall have full control of the specified part of SPEN's Distribution System and shall carry out the work in accordance with its own SMS, including its Safety Rules.</li><li>Each party shall make available to the other the relevant policies, operational processes, local information and procedures as required to facilitate safe working on SPEN's Distribution System. This may be in writing or by personal briefing as may be appropriate, but in all cases the information exchanged shall be recorded and such records must be held for future reference by each party.</li></ul>
Additional Connections Information	
Contact Connections	

### xiii) Land Rights & Consents

[https://www.spenergynetworks.co.uk/pages/land\\_rights\\_consents.aspx](https://www.spenergynetworks.co.uk/pages/land_rights_consents.aspx)

Help & Advice	▼
A Caring Network	▼
Online Forms	▼
<b>Land Rights &amp; Consents</b>	▼
Land Rights	
Land Rights for Connections Customers	
Land Enquiry Form	
Contact Us	







## LAND RIGHTS & CONSENTS

In order to install, maintain and operate overhead lines, underground cables and substations, we require the use of land occupied by many individuals (known as Grantors).



The right of access to the land is granted through a **Land Right** which can be a personal agreement between ourselves and the Grantor (way/leave) or a permanent right to the land (servitude/easement).

If you are already a Grantor or you want to know more about Land Rights and Consents please contact us via our [Land Enquiry Form](#) or by using the links below.

<p><b>Land Rights</b></p>  <p>Find out how right of access to the land is granted</p> <p><a href="#">FIND OUT MORE</a></p>	<p><b>Land Rights for Connections Customers</b></p>  <p>To get you connected to our network, we often need to secure appropriate land rights</p> <p><a href="#">FIND OUT MORE</a></p>	<p><b>Land Enquiry Form</b></p>  <p>Our quick and easy-to-use online enquiry form</p> <p><a href="#">FIND OUT MORE</a></p>
<p><b>Works on Your Land</b></p>  <p>Our agreement with you is underpinned by our commitment to working with you with courtesy and consideration.</p> <p><a href="#">VIEW PDF / WELSH VERSION</a></p>	<p><b>Land Code of Conduct</b></p>  <p>Our agreement with you is underpinned by our commitment to working with you with courtesy and consideration.</p> <p><a href="#">VIEW PDF / WELSH VERSION</a></p>	<p><b>Fee Scale</b></p>  <p>Our rate of payment to you for apparatus on your land (ENA)</p> <p><a href="#">VIEW PDF</a></p>

Help & Advice	▼
A Caring Network	▼
Online Forms	▼
Land Rights & Consents	▼
Land Rights	
Land Rights for Connections Customers	>
Land Enquiry Form	
Contact Us	

## LAND RIGHTS FOR CONNECTIONS CUSTOMERS

To get you **connected to our network**, we often need to secure appropriate land rights in order to locate our equipment or cables on your land or a third parties land.

Our stakeholder feedback of the Land Rights process is improving and we are continuing to implement initiatives to enhance the customer experience, please take a look at our latest stakeholder update!



- [Land Rights Stakeholder Update June 2019](#)

The term land rights is used as a collective term to cover the acquisition of property rights, such as freehold and leasehold interests, a lease or purchase or servitudes, easements or wayleaves, that SP Energy Networks will require to be in place before we can make a connection for you to our network. In order to ensure the works are undertaken in a lawful manner we may also require 'statutory planning' consents such as a section 37 consent to install an overhead line or a planning consent to construct a substation. Other environmental consents, licences or permits may also be required for work in or around certain sensitive ecological habitats or species, water bodies or cultural heritage sites, some of which may have significant statutory protection.

We would ask you to take the following key factors into consideration when planning your project:

- We require the consent of the land owner prior to beginning any works
- The timescales associated with obtaining third party agreement may affect your project's delivery
- We do not seek such consents until you have accepted our quotation
- The price on our quotation is given subject to all consents being agreed
- Where consents are refused a new design and quotation will be required
- We cannot undertake any works on third party land until all consents have been agreed

More information is available in our Land Rights for Connections Customers guidance document which contains information on our process and requirements.

- [Land Rights for Connection Customers](#)

To further assist, we have provided the associated lease and servitude templates which may be required as part of your connection. See the links to these below:

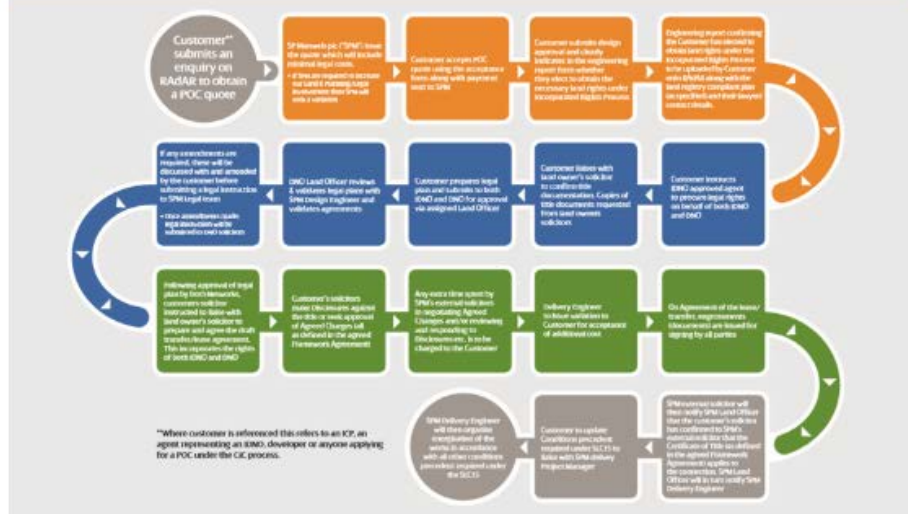
- [Windfarm Lease](#)
- [Substation Lease \(Whole Substation Building\)](#)
- [Substation Lease \(Internal Parts Only\)](#)
- [Standard Servitude \(Overhead and Underground\)](#)
- [Standard Deed of Grant \(easement\) \(Underground and Overhead\)](#)
- [Windfarm Servitude](#)

### Incorporated Rights (SP Manweb)

Where an IDNO is installing a new electricity connection, they will retain ownership of the network and therefore have their own land rights with the landowner. In order to better facilitate the land rights required for the IDNO's network to connect into SP Manweb's network, we can incorporate SPM's rights required into the agreement between the IDNO and the landowner. This allows the IDNO to secure SPM's land rights directly with the landowner. Please see our Incorporated Rights customer process map for more detail and contact [wayleavessouth@spenergynetworks.co.uk](mailto:wayleavessouth@spenergynetworks.co.uk) for enquiries.



# Incorporated Rights Customer Process



## How long will it take to obtain the Land Rights and Other Consents?

The time to achieve Land Rights and other necessary Consents will be depending upon the individual circumstances and the ability to reach agreements with the various parties involved. Timescales for the successful negotiations vary greatly but we will try to complete these as efficiently as possible to meet overall project timescales.

Any Statutory or Environmental Consent needed will be, where possible, progressed in parallel to the Land Rights. The timescales for these are in the main out with our control and will also depend on the specifics of the works and the third parties we will have to engage with.

Based on our past experience and the functional processes of both obtaining Land Rights and Statutory Consents we have developed a range of indicative lead times. These lead times factor in such elements set out above and are primarily dependent on the type of Land Right being sought. For example Wayleaves or Servitudes/ Easements and if any, what Statutory or other Consents are required.

Other factors may include where a third party Land Right is required from an organisation. These organisations could be a local Authority or a Rail Operator who may have set processes and timescales to deal with specific matters.

- A simple underground connection on your land may take approximately **5 weeks** from the point of the Land Team having all the necessary information. We may seek a Way leave for this. Should you not own the land you are wanting the underground connection for may take as long as **10 weeks**. If the land is owned by an Infrastructure Operator or Local Authority the timescale can be extended to 10 weeks.
- Where permission is required from third party Landowners the timescale can be any time between **18 and 22 weeks**. Third party Landowners can be including an Infrastructure Owner or Local Authority. This timescale also applies in a case where Licence and Permits are required in relation to an environmental site.
- An overhead line that is less than 33kV required involving third party Landowners and is requiring a section 37 Consent with an environmental Licence or Permit, it can take up to **20 weeks**.
- A more complex connection requiring an overhead line of a significant length, involves a variety of third party Landowners and requires section 37 Consents with sensitive environmental aspects, it may take up to **50 weeks** for the consents to be granted.

The Project Manager appointed to your connection will keep you fully informed about progressing towards gaining any consents.

FIND OUT MORE ABOUT GETTING CONNECTED

Help & Advice	▼
A Caring Network	▼
Online Forms	▼
Land Rights & Consents	▼
Land Rights	▶
Land Rights for Connections Customers	
Land Enquiry Form	
Contact Us	

## LAND RIGHTS

The right of access to the land is granted through a Land Right which can be a personal agreement between ourselves and the Grantor (wayleave) or a permanent right to the land (servitude/easement).



The different types of Land Right obtained by SP Energy Networks are:

LAND RIGHTS FOR OVERHEAD LINES AND UNDERGROUND CABLE	
<b>WAYLEAVE AGREEMENT</b>	<ul style="list-style-type: none"> <li>A Personal Agreement between SPD/SPM and the individual/company granting the right.</li> <li>Used to gain consent for Overhead Line and Underground Cable Apparatus.</li> <li>An annual payment or one off payment is usually paid to the grantor as long as they are not the sole beneficiary of the apparatus.</li> <li>Payment Rate is reviewed annually.</li> <li>Way/leaves are not registered against the land therefore if the land is subsequently sold the right will not automatically transfer to the new owner.</li> </ul>
<b>SERVITUDE/EASEMENT</b>	<ul style="list-style-type: none"> <li>Provides greater security than a Wayleave Agreement.</li> <li>Executed as a Deed therefore it is registered against the property on HM Land Registry and is permanently affixed to the land.</li> <li>A Servitude/Easement forms a contract between SPD/SPM and the landowner and will include a right of access for inspection, maintenance and future operations.</li> <li>Servitude/Easements are processed through solicitors and this reflects the greater security of tenure afforded to us and also the timescales involved.</li> </ul>
<b>FREEHOLD TRANSFER (SALE)</b>	<ul style="list-style-type: none"> <li>SPD/SPM would prefer a freehold interest in the land where a Sub-Station is to be built for a major project, for example a Housing Development.</li> <li>The land would then be owned by SPD/SPM and the Title would be registered at HM Land Registry.</li> <li>The transfer would also include associated rights of access and appropriate for underground cables etc.</li> </ul>
<b>LEASE</b>	<ul style="list-style-type: none"> <li>SPD/SPM would be prepared to enter into a lease for a Sub-Station site for commercial/industrial developments.</li> <li>The landowner would grant us the right to occupy their land/building over a mutually agreed time period.</li> <li>The lease will include rights for access to the sub-station 24/7, together with the rights for underground cable and associated apparatus.</li> </ul>

### What if a voluntary agreement cannot be reached?

In some cases a voluntary agreement will not be reached and we may require to rely on our statutory powers to compulsorily secure the relevant land rights. In such circumstances where agreement cannot be reached and no alternative design solution exists. Prior to entering into the use of statutory powers, the circumstances and how to proceed should be reviewed by the SPEN Project Manager, Land Offer and the customer. The costs relating to the use of statutory powers will be in addition to your connection costs.

<b>COMPULSORY PURCHASE</b>	<p>We can acquire ownership of rights in, and rights to, land by way of the compulsory acquisition process set down under schedule 3 of the Electricity Act 1989 (as amended).</p> <p>A 'start to finish' compulsory acquisition can take between 9 months to 3 years. As such, the process is only effective in projects where there are sufficiently defined timescales. Furthermore, a compulsory purchase order can only be proposed where there is a sufficient 'needs case' justification for doing so.</p>
<b>NECESSARY WAYLEAVE</b>	<p>We can acquire a necessary wayleave for overhead line and cable apparatus under Schedule 4 of the Electricity Act. A necessary wayleave offers more protection than a voluntary wayleave in that it binds the land covered by the necessary wayleave for a stated term and does not fall as a result of a change of owner. The process can take between 6-12 months.</p>

### Other types of consents

As well as land rights, other consents may be required as part of your connection. These may relate to:

- Statutory planning consents for the construction of an overhead line or substation.
- Other environmental consents, licences or permits which may be required for:
  - Work in or around water bodies;
  - Work in or around certain sensitive ecological habitats or species, some of which may have significant statutory protection.
  - Work in or around buildings and sites of historic importance
- In cases where such 'sensitive sites' are encountered these may trigger the need for particular environmental evaluation or the need for full Environmental Impact Assessment (EIA).

The requirement for such consents is obviously dependent on the development type and its location and as such requires to be considered on a case by case basis. Different types of consents will have different programme implications.

These consents will require various levels of engagement with statutory authorities and interested parties.

<b>SECTION 37 CONSENT</b>	The Electricity Act contains certain provisions for planning relating to the construction or alteration of overhead lines. Consent relating to 33kV overhead lines and below are required under section 37 of the Act.
	Section 37 consent is granted by the Scottish Ministers in Scotland and the Secretary of State in England and Wales. Whilst applications are made to The Scottish Government / DECC, these consents requires consultation with the relevant local authorities and other statutory bodies. The Secretary of State Scottish Ministers may take in to account the number of land rights that have been granted prior to the granting of the section 37 consent.
	The Land Officer appointed to your connection will keep you fully informed as to any consent that may be required to construct the connection.
<b>PLANNING CONSENT BY A CUSTOMER</b>	If a substation is required as part of the customer's connection arrangements, typically for development such as housing or commercial, we expect you to obtain planning permission for the new substation. Before a lease or transfer for a new substation site can be concluded, you must provide evidence to our solicitor that planning permission has been obtained for the new substation.



Our Land Rights and Works on Your Land documents can be viewed by selecting the links below:

- [Land Code of Conduct](#)
- [Land Code of Conduct \(Welsh\)](#)
- [Works on Your Land](#)
- [Works on Your Land \(Welsh\)](#)

If you are already a Grantor or you want to know more about Land Rights and Consents please contact us via our [Land Enquiry Form](#) or by using the contact details below:

CENTRAL & SOUTHERN SCOTLAND	CHESHIRE, MERSEYSIDE, N. WALES & N. SHROPSHIRE
Telephone: 0845 301 0014	Telephone: 0845 030 3053
<b>CONTACT US VIA EMAIL:</b>	
<a href="#">Wayleaves North</a>	<a href="#">Wayleaves South</a>
<b>WRITE TO US:</b>	
Wayleaves SP Energy Networks 55 Fullerton Drive Cambuslang Glasgow G32 8FA	Wayleaves SP Energy Networks Wrexham Road Pentre Bychan Wrexham LL14 4DU

## Customer Process -

[https://www.spenergynetworks.co.uk/pages/customer\\_process\\_new\\_connection.aspx](https://www.spenergynetworks.co.uk/pages/customer_process_new_connection.aspx)

### CUSTOMER PROCESS: NEW CONNECTION

This page features animated content. View a text only version of the New Connection Process.

## Stage 3/8: You Receive a Quote

We design your installation and send you a quote.

Not sure what **connection type** you require? We can **guide** you through the process.

Find out more about **SP Energy Networks Connections** with our selection of information **e-leaflets** and **videos**.

Do you need to **move your electricity meter**? Find out how SP Energy Networks can help you.

We are here to **support** you. Click here to find out how to **contact us**.

### CUSTOMER PROCESS: NEW CONNECTION

This page features animated content. View a text only version of the New Connection Process.

## Stage 6/8: Agree Your Installation Date

We sort out any third party permission and arrange a date for the work to begin (usually around 6 weeks).

Read our **Getting it Right: Wayleaves & Consents Leaflet**

Not sure what **connection type** you require? We can **guide** you through the process.

Find out more about **SP Energy Networks Connections** with our selection of information **e-leaflets** and **videos**.

Do you need to **move your electricity meter**? Find out how SP Energy Networks can help you.

We are here to **support** you. Click here to find out how to **contact us**.

xiv) Connection Agreements

[https://www.spenergynetworks.co.uk/pages/connection\\_agreements.aspx](https://www.spenergynetworks.co.uk/pages/connection_agreements.aspx)



ScottishPower | iberdrola.com

ABOUT US | POWER CUTS | CUSTOMER SUPPORT | GETTING CONNECTED | INVESTMENT & INNOVATION | CORPORATE GOVERNANCE



Getting Connected

Home > Getting Connected > Other Connection Providers... > Information for ICPs and IDNs > Documents > Connection Agreements

- Getting Connected
- Other Connection Providers (You Have a Choice)
- Who Can Do the Work?
- What Work Can be Done?
- Who Regulates Our Connection Business?
- Information for ICPs and IDNs
- Extending the Scope of ICP Work
- Guidance & Information
- Code of Practice
- Documents
- Connection Agreements**
- Construction & Adoption
- Keeping You Informed
- Customer Leaflets
- Policies, Procedures and Specifications: Documentation
- How to Contact CIC
- Generation
- Additional Connections Information
- Contact Connections

CONNECTION AGREEMENTS

Prior to the completion/energisation of a new connection:

- The appropriate Bespoke/Bilateral Connection Agreement **MUST BE COMPLETED** and **SIGNED** by both parties
- Any works required to reinforce an existing connection or SPD/SPM agreeing to modify existing connection terms i.e. increasing/reducing a customer's maximum capacity, the appropriate Bespoke/Bilateral Connection Agreement **MUST BE MODIFIED** and that Modification **SIGNED** by both parties

Under no circumstance should a new or reinforced connection be energised or modified connection terms agreed without there being a signed and up-to-date Bespoke/Bilateral Connection Agreement in place.

A **BESPOKE CONNECTION AGREEMENT** is required for any connection metered at HV or above, or any site that has generation installed.

Each IDNO connection will require an appropriate **Bilateral Connection Agreement** to be put in place.

Please find below a list of the connection templates and the link for each for SPD and SPM.

Connection Agreement Template	Link	
	SPM	SPD
Bespoke Connection Agreement Template - LV Generation(G59)	<a href="#">COM-20-010</a>	<a href="#">COM-20-001</a>
Bespoke Connection Agreement Template - 11kV and above. No Generation	<a href="#">COM-20-011</a>	<a href="#">COM-20-002</a>
Bespoke Connection Agreement Template - 11kV and above. Generation No Export	<a href="#">COM-20-012</a>	<a href="#">COM-20-003</a>
Bespoke Connection Agreement Template - 11kV and above. Generation Export	<a href="#">COM-20-013</a>	<a href="#">COM-20-004</a>
Bilateral Connection Agreement Template - LV Standard (230V/400V)	<a href="#">COM-20-014</a>	<a href="#">COM-20-005</a>
Bilateral Connection Agreement Template - HV Standard (11kV) SPD	<a href="#">COM-20-015</a>	<a href="#">COM-20-006</a>
Bilateral Connection Agreement Template - HV Close Coupled (11kV)	<a href="#">COM-20-016</a>	<a href="#">COM-20-007</a>
Bilateral Connection Agreement Template - LV Link Box (230V/400V)	<a href="#">COM-20-017</a>	<a href="#">COM-20-008</a>
Bilateral Connection Agreement Template - LV NO Link Box (230V/400V)	<a href="#">COM-20-020</a>	<a href="#">COM-20-019</a>
Bilateral Connection Agreement Template - EHV (33kV)	<a href="#">COM-20-018</a>	<a href="#">COM-20-009</a>

To provide you with some assistance in the completion of these forms please [click here](#) for an example of a completed Bilateral Connection Agreement (COM-20-015).

## xv) Construction and Adoption Agreements

[https://www.spenergynetworks.co.uk/pages/construction\\_adoption\\_agreements.aspx](https://www.spenergynetworks.co.uk/pages/construction_adoption_agreements.aspx)



### Getting Connected

- Who Can Do the Work?
- What Work Can be Done?
- Who Regulates Our Connection Business?
- Information for ICPs and IDNOs
  - Extending the Scope of ICP Work
  - Guidance & Information
  - Code of Practice
  - Documents
    - Connection Agreements
    - Construction & Adoption
    - Keeping You Informed
    - Customer Leaflets
    - Policies, Procedures and Specifications Documentation
    - How to Contact CIC

#### CONSTRUCTION & ADOPTION

##### New & Modified Connections

If you have appointed an accredited Independent Connection Provider (ICP) to undertake some or all contestable works, they are required to work in accordance with the terms and conditions of our Construction and Adoption Agreement.

The Construction and Adoption Agreement can either be bilateral between you and us or us and your appointed ICP or on a tripartite. It sets out the terms and conditions under which we will agree to adopt the assets installed. Once adopted, they will become part of our network following satisfactory inspection and testing.

##### Agreements

- [SP Distribution \(SPD\) Bilateral Adoption Agreement](#)
- [SP Distribution \(SPD\) Tripartite Adoption Agreement](#)
- [SP Manweb \(SPM\) Bilateral Adoption Agreement](#)
- [SP Manweb \(SPM\) Tripartite Adoption Agreement](#)

Framework agreements are also available for those organisations who complete a significant volume of projects within our network area. This provides the option of initially signing an over-arching agreement and then only completing a site specific schedule for each project.

If you are interested in this option please contact the relevant Account Manager who will be able to assist, details of which can be found [here](#).

##### Terms & Conditions

- [SPD - General Bilateral Terms & Conditions for Adoption of Contestable Works](#)
- [SPD - General Tripartite Terms & Conditions for Adoption of Contestable Works](#)
- [SPM - General Bilateral Terms & Conditions for Adoption of Contestable Works](#)
- [SPM - General Tripartite Terms & Conditions for Adoption of Contestable Works](#)

##### Street Lighting & Street Furniture

For any assets installed in relation to street furniture or street lighting, you – or in the case of street lighting – a street lighting authority, can appoint an accredited ICP to undertake the work.

The appointed ICP will be required to carry out the works in accordance with the terms and conditions of our Construction & Adoption Agreement. The agreement will be between you, us and your appointed ICP.

The terms upon which we will adopt the new assets are set out within the agreement and, once the assets have been adopted, will be operated and maintained by us.

##### Agreements

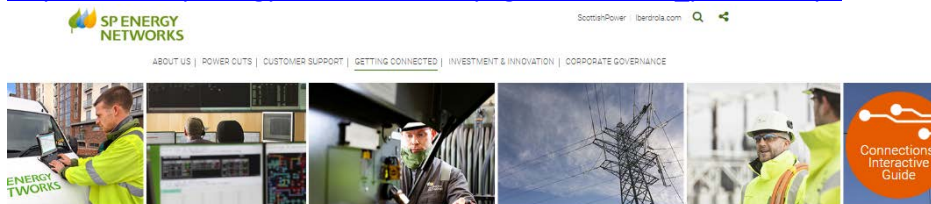
- [SP Distribution - Street Lighting & Street Furniture CSAA](#)
- [SP Manweb - Street Lighting & Street Furniture CSAA](#)

##### Terms & Conditions

- [SP Distribution General Conditions for Street Furniture](#)
- [SP Manweb General Conditions for Street Furniture](#)

## xvi) Escalation Process

[https://www.spenergynetworks.co.uk/pages/escalation\\_process.aspx](https://www.spenergynetworks.co.uk/pages/escalation_process.aspx)



### Getting Connected

- Getting Connected
- Other Connection Providers (You Have a Choice)
- Who Can Do the Work?
- What Work Can be Done?
- Who Regulates Our Connection Business?
- Information for ICPs and IDNOs
- How to Contact CIC
- Escalation Process
- Generation
- Additional Connections Information
- Contact Connections

#### ESCALATION PROCESS

We are committed to providing you with excellent customer service, first time every time. However, if you have any concerns or issues then please follow the process outlined below.

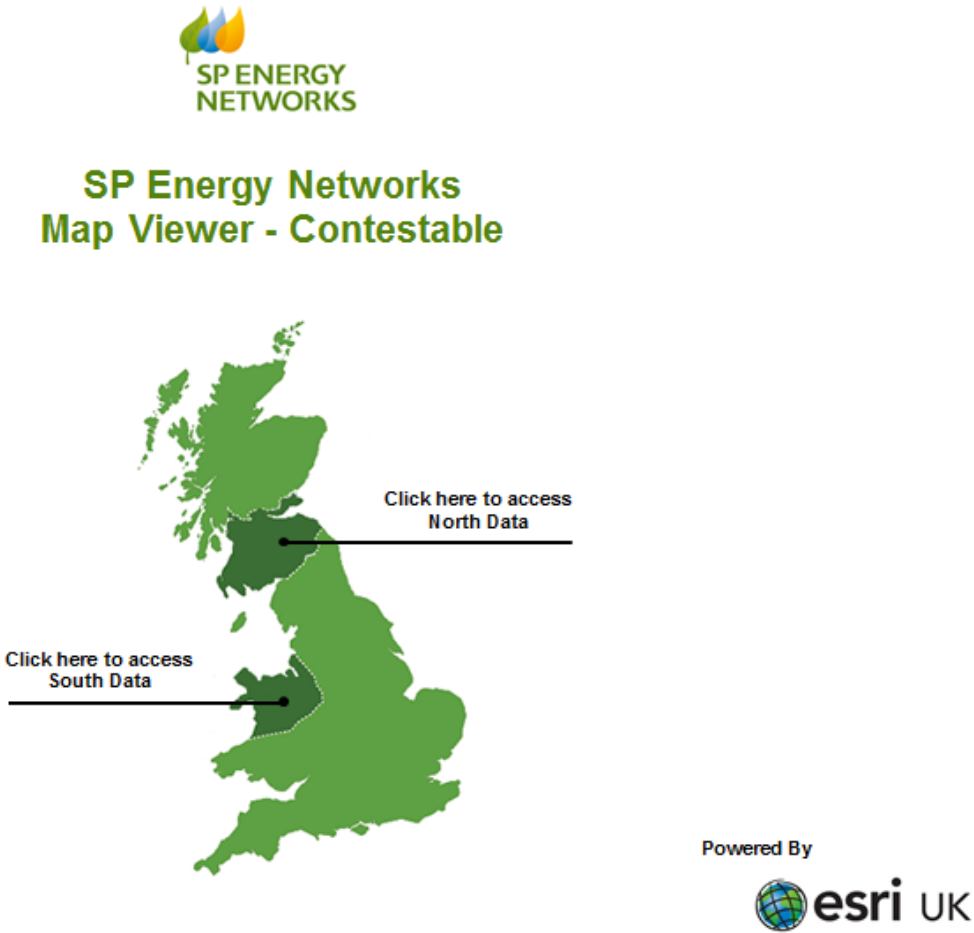


\*\* Please use our contacts page to find the specific details of the manager for each district.

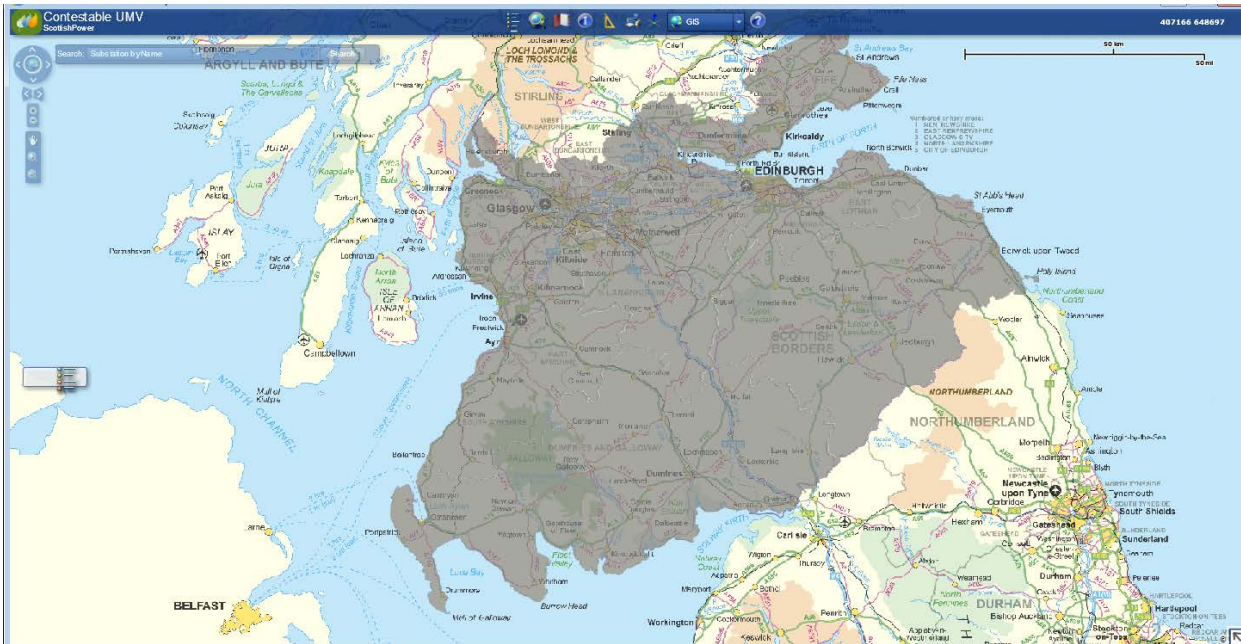
Please note if you have followed the process above and are not happy with the resolution and want to make a complaint, then you should follow our complaints procedure.

# Appendix 2 – UMV and Transformer Loading Database screenshots

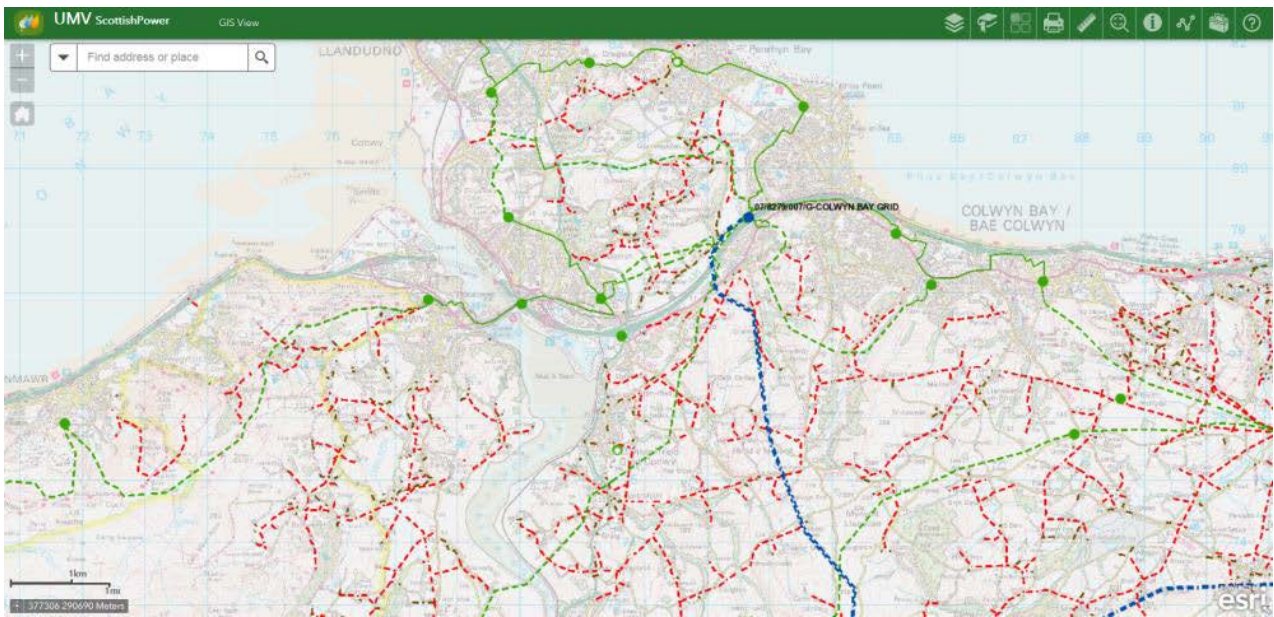
## i) UMV/GND/Power On Portal Screen



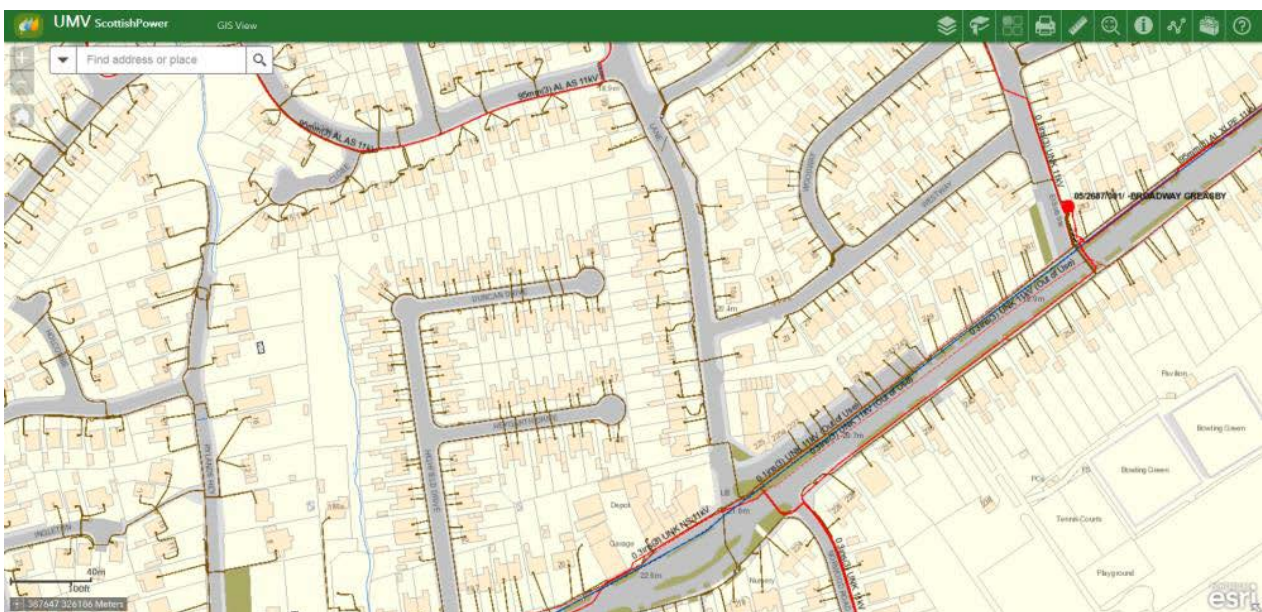
## ii) UMV Mini Scale



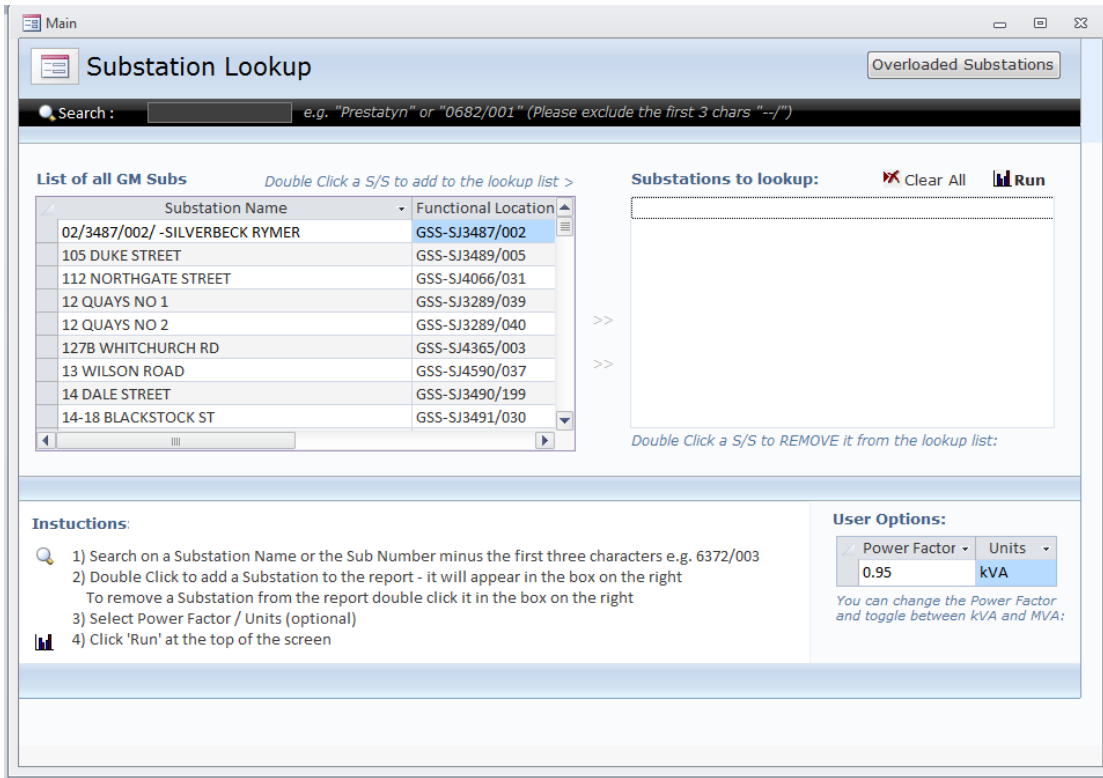
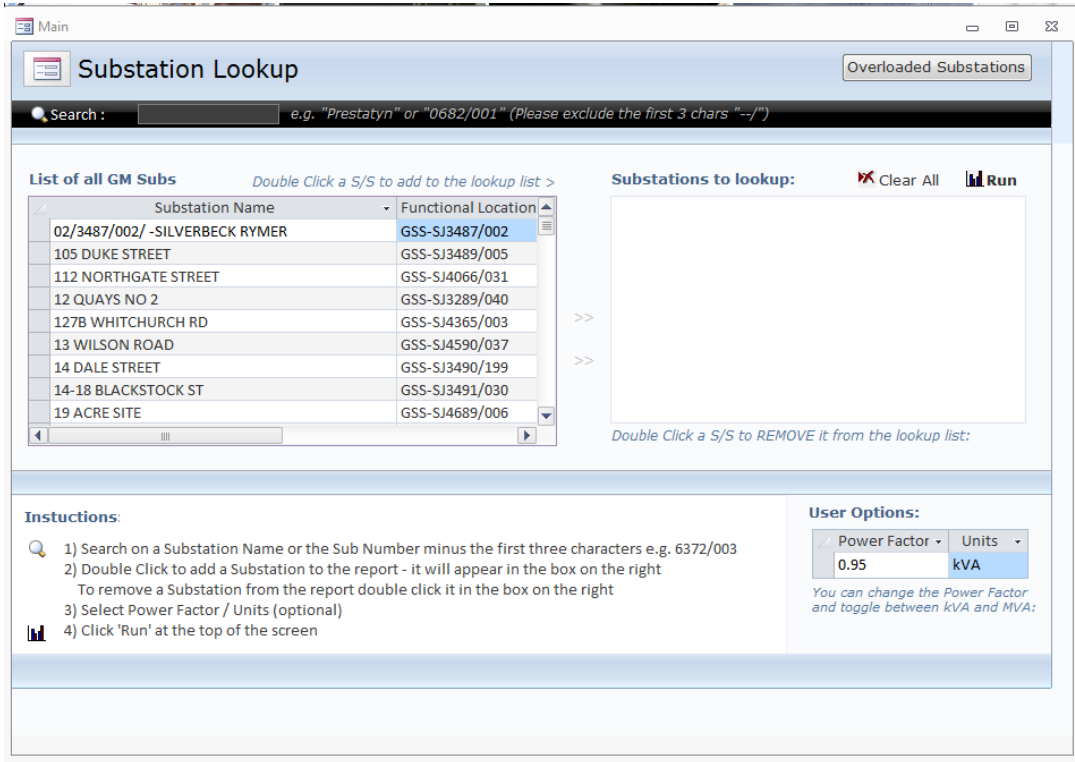
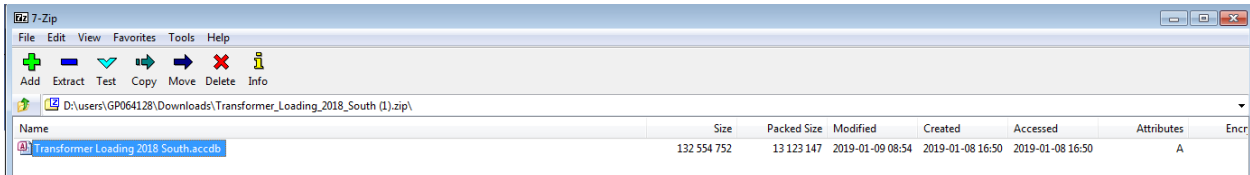
iii) UMV Landranger



iv) UMV Master Map



v) Transformer Loading Database Portal screen





vi) Transformer Loading Database example screen

Substation Name					Functional Location			Tx Rating
WITTON					GSS-SJ6674/005			500
Date	Red (A)	Yell (A)	Blue (A)	Total (A)	Total kVA	Total kW	kVAr	% Loading
01/03/2017	800	700	600	2100	483	459	150	97
05/04/2016	800	650	650	2100	483	459	150	97
21/05/2015	800	550	650	2000	460	437	144	92
19/06/2014	750	600	700	2050	472	448	149	94
21/02/2013	800	550	700	2050	472	448	149	94
20/03/2012	800	600	700	2100	483	459	150	97
28/02/2011	800	740	740	2280	524	498	163	105
17/06/2010	800	700	700	2200	506	481	157	101
11/12/2009	700	600	600	1900	437	415	137	87
30/07/2008	780	620	580	1980	455	432	143	91
20/02/2008	800	660	700	2160	497	472	156	99
15/02/2007	700	600	800	2100	483	459	150	97
07/10/2005	760	620	780	2160	497	472	156	99