

Competition in Connections Code of Practice Reporting 2015-16 Appendices

(November 2015 – March 2016)

SP Manweb
and
SP Distribution

September 2016

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Appendix 1 – Website Pages

i) Competition in Connections

http://www.spenergynetworks.co.uk/pages/competition_in_connections.asp

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Competition in Connections

Competition in the connections market means you have a choice when selecting who provides some elements of your connection process.

These can either be provided by ourselves, Independent Connection Providers (ICPs) or Independent Distribution Network Operators (IDNOs).

Independent Distribution Network Operator Independent Connection Provider

Independent Distribution Network Operator

Independent Distribution Network Operators are accredited companies that can build new electricity networks. An IDNO may continue to own and operate these new networks independently, providing maintenance, repair and supply to their customers.

You'll find more details in this section, including information about who can do the work and what work can be done. Our leaflet, [Connecting You With a Choice](#), also offers more information.

For your safety, only suitably accredited connection companies can provide connections. Although point of connection quotations can be issued to any customer who requests one, only fully accredited ICPs can present designs for adoption and a point of connection quote cannot be accepted unless it is accompanied with a full design from an accredited ICP.

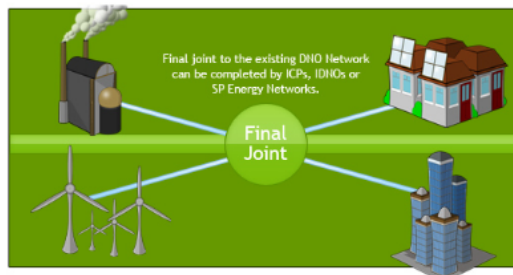
New domestic, commercial, industrial and generation network connections can be built by an ICP, IDNO or SP Energy Networks (SPEN). These connections may be adopted by SP Energy Networks or an IDNO.

Alternative Connection Providers

There are a number of Alternative Connection Providers active in the SP Distribution (SPD) and SP Manweb (SPM) areas. [Click here to view list](#)

Please note that this is not exhaustive and is based on providers known to be operating in the SPM/SPD licenced areas. It also does not form any recommendation or endorsement from SPEN.

A full list of all accredited Connections Providers can be found on the Lloyd's Register NeRS website: [Click Here](#)
If you are a Connections Provider and would like your company to be listed, please email gettingconnectedupdate@spenergynetworks.co.uk



ii) Competition in Connections Code of Practice

http://www.spenergynetworks.co.uk/pages/competitions_in_connections_code_of_practice.asp

The screenshot shows the SP Energy Networks website. At the top left is the logo and navigation menu: POWER CUTS, ADVICE, GETTING CONNECTED, INVESTMENT & INNOVATION, ABOUT US, CONTACT US. A search bar is on the right. Below the navigation is a large image of a power line tower. A breadcrumb trail reads: You are here: Home | Getting Connected | Competition in Connections | Competitions in Connections Code of Practice.

Getting Connected

- Moving your Existing Supply (Service Alteration)
- Competition in Connections**
 - Competitions in Connections Code of Practice**
 - Workshop Presentations
 - Transformer Loadings
 - Self Determination of Point of Connection
 - Standard Design Matrix
 - Self Design Approval
 - Authorisation and Accreditation
 - Who Can Do the Work?
 - What Work Can be Done?
 - Who Regulates Our Connection Business?
 - Tracking Your Project

Competition in Connections Code of Practice

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.

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 [↗](#)

The image shows the cover of a document titled 'Energy Networks Association Competition in Connections Code of Practice'. It features the ENA logo and the text 'The Voice of the Networks'.

iii) Transformer Loadings

http://www.spenergynetworks.co.uk/pages/transformer_loadings.asp

The screenshot shows the SP Energy Networks website. At the top left is the logo and navigation menu: POWER CUTS, ADVICE, GETTING CONNECTED, INVESTMENT & INNOVATION, ABOUT US, CONTACT US. A search bar is on the right. Below the navigation is a large image of a power line tower. A breadcrumb trail reads: You are here: Home | Getting Connected | Competition in Connections | Transformer Loadings.

Getting Connected

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- Competition in Connections**
 - Competitions in Connections Code of Practice
 - Transformer Loadings**
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 - Standard Design Matrix
 - Self Design Approval

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).

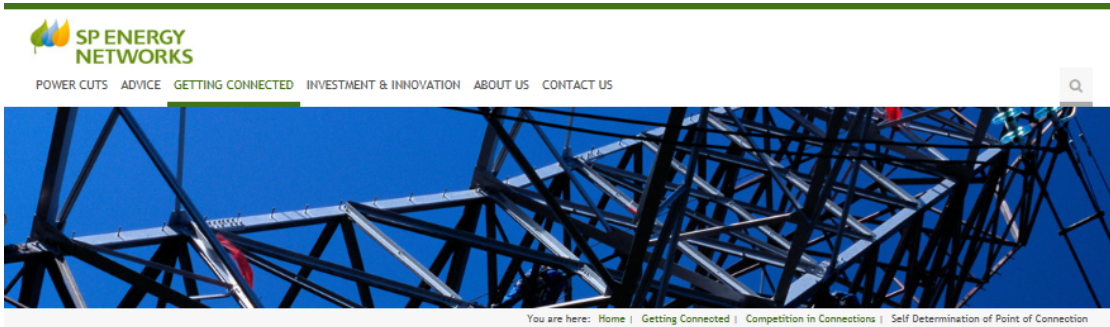
Please see below the Zip files for SPM and SPD and the associated instructions for use:

Click here for instructions [↗](#).

- Transformer Loading DB 2015 v2.0 South [↗](#)
- Transformer Loading DB North [↗](#)

iv) Self-Determination of Point of Connection

http://www.spenergynetworks.co.uk/pages/self_determination_of_point_of_connection.asp



You are here: [Home](#) | [Getting Connected](#) | [Competition in Connections](#) | [Self Determination of Point of Connection](#)

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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](#).

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.

v) Standard Design Matrix

http://www.spenergynetworks.co.uk/pages/standard_design_matrix.asp



POWER CUTS | ADVICE | GETTING CONNECTED | INVESTMENT & INNOVATION | ABOUT US | CONTACT US



You are here: [Home](#) | [Getting Connected](#) | [Competition in Connections](#) | [Standard Design Matrix](#)

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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-02-021, along with some guidance, and can be found [here](#).

Criteria	Measurement	Comment
connection capacity	<=500W (unmetered supplies)	
distance to substation	<=500m	
service cable length	<=5m (4mm) or <=25m (25mm)	
transformer capacity	N/A	
asset types excluded	Cable of imperial size less than 0.1 square inch copper Cable of metric size <95mm ² Concentric cables look for cables marked as 2 core with imperial sizes, T/C/L/C (SPM TR/C/C), (triple concentric lead covered), marked as ex dc (direct current) cables. Three core LV cables – 2 phase and neutral. Cables indicated as operating (Bunched) – check the various layers available on UMV for P/L/C LV cables marked as 3 Some cables we are unable to joint live. Belgium cables and Consac. Interconnectors with no existing connected customers.	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 15mtrs can be considered. Alternatively <=25m (25mm) Cable to be considered

Criteria	Measurement	Comment
connection capacity	<=6kW (non domestic only)	
distance to substation	<=250m	
service cable length	<=25m	
transformer capacity	N/A	
asset types excluded	Cable of imperial size less than 0.1 square inch copper. Cable of metric size <95mm ² Concentric cables look for cables marked as 2 core with imperial sizes, T/C/L/C (SPM TR/C/C), (triple concentric lead covered), marked as ex dc (direct current) cables. Three core LV cables – 2 phase and neutral. Cables indicated as operating (Bunched) – check the various layers available on UMV for P/L/C LV cables marked as 3 Some cables we are unable to joint live. Belgium cables and Consac. Interconnectors with no existing connected customers.	A Full Network modeling analysis is required if - The Distance from the Substation exceeds 250mtrs - Embedded generation enquiries above 16 Amps per phase (Generation subject to the requirements of ENA G83/multiple connections or ENA G59)

Criteria	Measurement	Comment
connection capacity	Up to 4 Domestic (<=2kW ADMD each)	
distance to substation	<=250m	
service cable length	<=25m	
transformer capacity	N/A for ground mounted substation. System checks required for PTE (Pole Mounted Transformers)	Existing 5kVA pole mounted transformers will not provide sufficient capacity to cater for additional connections
asset types excluded	Cable of imperial size less than 0.1 square inch copper. Cable of metric size <95mm ² Concentric cables look for cables marked as 2 core with imperial sizes, T/C/L/C (SPM TR/C/C), (triple concentric lead covered), marked as ex dc (direct current) cables. Three core LV cables – 2 phase and neutral. Cables indicated as operating (Bunched) – check the various layers available on UMV for P/L/C LV cables marked as 3 Some cables we are unable to joint live. Belgium cables and Consac. Interconnectors with no existing connected customers.	A Full Network modeling analysis is required if - The Distance from the Substation exceeds 250mtrs - Embedded generation enquiries above 16 Amps per phase (Generation subject to the requirements of ENA G83/multiple connections or ENA G59)

Criteria	Measurement	Comment
connection capacity	Single Connection <=69kW	Existing 5kVA pole mounted transformers will not provide sufficient capacity to cater for additional connections
distance to substation	<=200m	
service cable length	<=10mtrs (No Study required), >10 <=25m (Study required)	A Full Network modeling analysis is required if
transformer capacity	system checks required for PTE (Pole Mounted Transformers) and ground mounted substations	The maximum length of any Service Cable Exceeds 10mtrs. Note no services to exceed 25mtr
asset types excluded	Cable of imperial size less than 0.1 square inch copper. Cable of metric size <95mm ² Concentric cables look for cables marked as 2 core with imperial sizes, T/C/L/C (SPM TR/C/C), (triple concentric lead covered), marked as ex dc (direct current) cables. Three core LV cables – 2 phase and neutral. Cables indicated as operating (Bunched) – check the various layers available on UMV for P/L/C LV cables marked as 3 Some cables we are unable to joint live. Belgium cables and Consac. Interconnectors with no existing connected customers.	there are 50 or more customers already on the LV feeder the associated loading is 50% or greater than the existing capacity of the circuit the proposed new load includes starting currents in excess of 15 Amps - Embedded generation enquiries above 16 Amps per phase (Generation subject to the requirements of ENA G83/multiple connections or ENA G59)

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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)

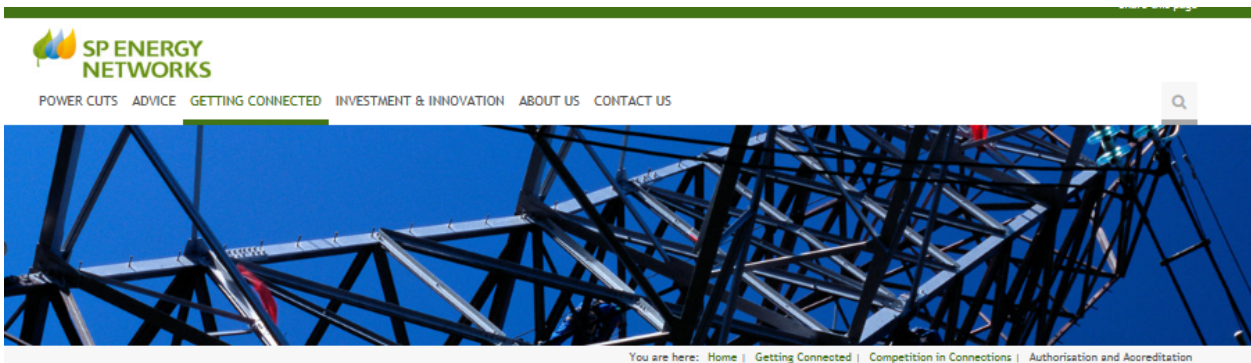
Please see our process document ESDD-02-021 Guidance for Self-Determination of Point of Connection and Self-Design Approval for Independent Connection Providers. There is a probationary period to be able to complete the self-design approval which is detailed in the above document and in the table of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

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

vii) Authorisation and Accreditation

http://www.spenergynetworks.co.uk/pages/authorisation_and_accreditation.asp



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Authorisation and Accreditation

Accreditations

- Accreditation means accreditation awarded to an ICP under the National Electricity Registration Scheme (NERS).
- ICPs accredited under NERS to undertake specific contestable activities shall be deemed to be competent to undertake such activity normally.
- 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 [here](#).

Authorisations

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 [here](#).

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.

Please see our guide to gaining Authorisation to SPEN [here](#).

The 3 options are detailed below:

Option 1 - ICP authorisation of ICP Employees and Contractors

- 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).
- 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.
- ICPs shall provide, if requested, details of their SMS to SPEN before first accessing SPEN's Distribution System.
- ICPs shall thereafter provide, when required, reasonable information regarding their ongoing SMS to SPEN.
- 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.
- 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.

Option 2 - DNO authorisation of ICP Employees

- ICPs shall operate under SPEN's SMS, including SPEN's version of the Model Distribution Safety Rules.
- SPEN will determine the relevant competence requirements and issue authorisations to the ICP's employees or contractors.
- 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.
- 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.
- The charges to get authorised must be cost-reflective and opportunities to be authorised must be available on a sufficiently frequent basis.
- 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.

Option 3 - Transfer of Control

- SPEN shall transfer control of a specified part of its Distribution System for the purposes of the ICP's activity.
- 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.
- 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.

viii) Connection Agreements

http://www.spenergynetworks.co.uk/pages/connection_agreements.asp

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

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).

ix) Construction and Adoption Agreements

http://www.spenergynetworks.co.uk/pages/construction_adoption_agreements.asp

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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

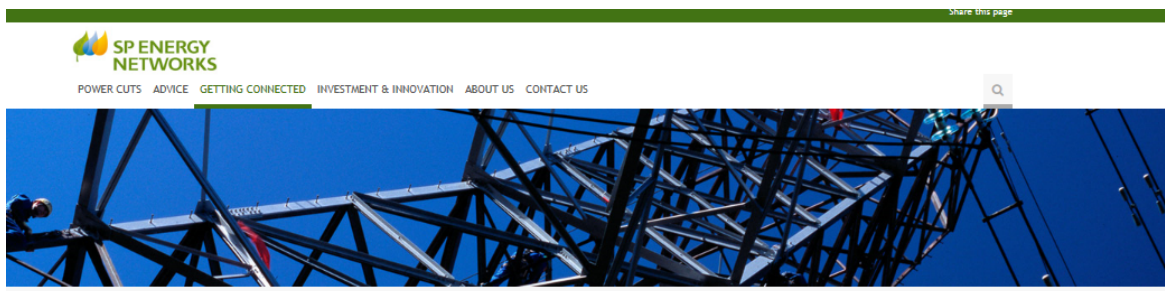
- [SP Distribution - Street Lighting & Street Furniture C&AA](#)
- [SP Manweb - Street Lighting & Street Furniture C&AA](#)

Terms & Conditions

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

x) Escalation Process

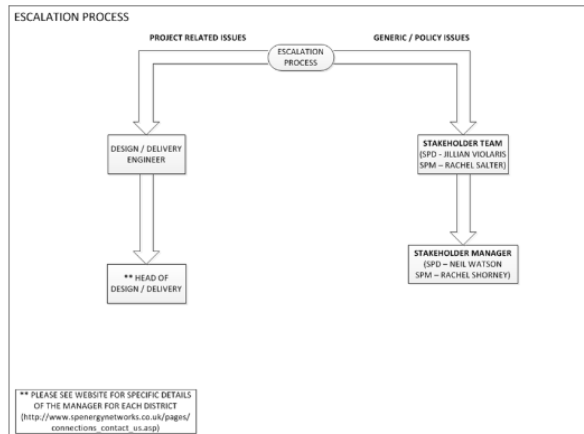
http://www.spenergynetworks.co.uk/pages/escalation_process.asp



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 - Utility Map Viewer

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 note, if you have followed the process above and are not happy with the resolution and wish to make a complaint, then you should follow our complaints procedure as outlined here [\[Link\]](#).

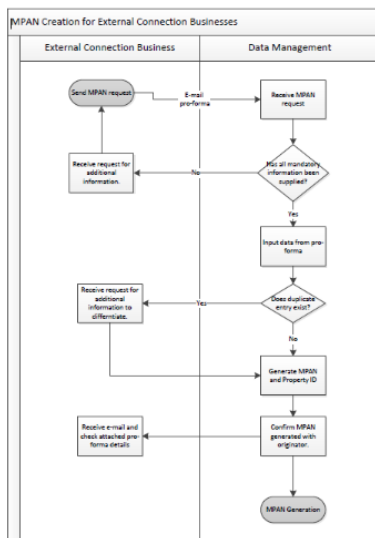
xi) Requesting a Meter Point Administration Number

http://www.spenergynetworks.co.uk/pages/mpan_request.asp

- Getting Connected
- Moving your Existing Supply (Service Alteration)
- Competition in Connections
 - Competitions in Connections
 - Code of Practice
 - Transformer Loadings
 - Self Determination of Point of Connection
 - Self Design Approval
 - Authorisation and Accreditation
 - Who Can Do the Work?
 - What Work Can be Done?
 - Who Regulates Our Connection Business?
 - Tracking Your Project
 - Steps to Getting Connected
 - Extending the Scope of ICP Work
 - Keeping You Informed
 - Adopted Distributed Generation
 - Connection Agreements
 - Construction & Adoption
 - Gaining Authorisation to SPEN
 - Utility Map Viewer
 - How to Contact CiC
 - Requesting a Meter Point Administration Number
 - Useful Documents
 - Quotation Options

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:



[Click here to open the email information](#)

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](#)

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.

Appendix 2 – Convertible Quotation Letter



Mr. Bxxxxx
xxxxxxxxxxx
xxxxxxx
xx0 0xx

SP Power Systems Ltd
General Administration
2nd Floor Avondale House
Phoenix Crescent
Strathclyde Business Park
Bellshill
ML4 3NJ

Reference : 000000
Offer Date : 25.03.2016

Dear xxxxxxxxxxxx,

Re: xxxxxxxx,xxxxxxxxx,xxxxx xx0 0xx

Thank you for your enquiry, which we received on 19.02.2016 regarding New Supply works at the above address. We have pleasure in submitting this Offer Letter for your consideration.

You now have two options. To proceed, you can only choose one. You may:

1. Accept SP Energy Networks to complete all the work to meet your connection requirements:

This means that SP Energy Networks will complete the contestable and non-contestable work. This will be known in this offer letter as **The Full Works**.

Full Works Connection Charge:

The cost for this work will be £00,000.00 (exclusive of VAT)

VAT will be charged at £0.00

So your total cost is £00,000.00 (inclusive of VAT)

OR

2. Accept SP Energy Networks to complete the Point of Connection (POC) work to meet your connection requirements:

This means that SP Energy Networks will complete the non-contestable work only. It is your responsibility to appoint an accredited independent connection provider (ICP) to work alongside SP Energy Networks to complete the contestable work. This will be known in this offer letter as **The POC**.

POC Connection Charge:

The cost for this work will be £00,000.00 (exclusive of VAT)

VAT will be charged at £0.00

So your total cost is £00,000.00 (inclusive of VAT)

For further information please refer to the guidance leaflet **Your Connection Offer Explained**. If you are happy to proceed please refer to the **Next Steps** section of this Offer Letter.

SP Power Systems Limited, 55 Fullarton Drive, Cambuslang, Glasgow, G32 8FA
Telephone 0845 270 0785, Fax: 0141 614 0085
www.spenergynetworks.co.uk

SP Power Systems Limited Registered Office: 1 Atlantic Quay, Glasgow G2 8SP.
Registered in Scotland No. 215841 Vat No. GB 659 3720 08

YOUR NEXT STEPS

Your offer is valid for three months from the date of this offer.

1. Familiarise yourself with the details of both **The Full Works** and **The POC**, set out later within this offer letter.
2. Familiarise yourself with General Terms and Conditions for Connection to the Electricity Distribution System, dated 1st May 2012 (the "Conditions"). A copy of our Conditions can be found at: www.spenergynetworks.co.uk/terms.
3. If you are considering accepting **The POC** and the use of an ICP to work alongside SP Energy Networks, please visit:
http://www.spenergynetworks.co.uk/pages/competition_in_connections.asp
Further information is also available at <http://www.lloydsregister.co.uk/schemes/NERS/>.
4. If you wish to proceed, choose one of the two options, **The Full Works** or **The POC** and complete the enclosed **Letter of Acceptance**.

Please note, we must receive your signed **Letter of Acceptance** together with payment so we're able to process your payment and progress your project as quickly as possible.

If we can be of any further assistance, or you require a copy of the Conditions please do not hesitate to contact me on 01416141268 or by email at GettingConnected@scottishpower.com.

Yours sincerely,

.....
PATRICK HOLME
For and on behalf of SP Distribution plc

.....
Second Signatory

This offer is made in accordance with Section 16A (5) of the Electricity Act 1989. The provisions in the Schedule and the Conditions are incorporated into and form part of this offer. SP Distribution plc as appointed SP Power Systems Limited ("SPPS") to act as its contracting agent regarding your request for electricity connection(s) to the Distributor's System. Any references to "Us", "We" or "Our" in this offer are references to the Distributor. Any references to "You" or "Your" in this offer are references to the Customer.

www.spenergynetworks.co.uk

YOUR LETTER OF ACCEPTANCE - PLEASE COMPLETE & RETURN TO US

SP Power Systems Ltd
 General Administration
 2nd Floor Avondale House
 Phoenix Crescent
 Strathclyde Business Park
 Bellshill
 ML4 3NJ

Mr. Bxxxxxxxx
 xxxxxxxxxxxx xxxxxxxxxxxx
 xxxxxxxxxxxx
 xxxxxxxx
 xx0 0xx

Your Ref : 000000
 Our Ref :
 25.03.2016

Dear Sirs,

Offer of New Supply to xxxxxxxxxxxx xxxxxxxx, xxxxxxxxxxxx, xxxxxxxxxxxxxxxxxxxx xx0 0xx
Ref: xxxxxx

Please place a cross [X] next to the offer You are accepting in the space provided:		CROSS
Full Works	I/We confirm acceptance of the Full Offer for the Non-Contestable Works and Contestable Works and associated terms and conditions. The cost for this work will be £00,000.00 (exclusive of VAT) VAT will be charged at £0.00 The total to pay today is £00,000.00 (inclusive of VAT)	
POC	I/We confirm acceptance of the Point of Connection Offer (POC) for the Non-Contestable Works and associated terms and conditions The cost for this work will be £00,000.00 (exclusive of VAT) VAT will be charged at £0.00 The total to pay today is £00,000.00 (inclusive of VAT)	

A legally binding contract will only be concluded upon receipt of this letter of acceptance and payment as set out in the table above. We advise that you read all sections of this offer carefully before signing.

For methods of payment, please see overleaf.

Acceptance and Declaration

- I/We confirm that the installation will conform to the Electricity Safety, Quality and Continuity Regulations 2002.
- I/We will ensure that the installation is complete and safe before the connection is made.
- I/We will inform SP Distribution plc. of a change of responsibility for the electricity supply and/or connection.
- I/We accept that SP Distribution plc shall have the right to amend and/or vary Our Works, the Customer's Works and/or the Connection Charge in accordance with the agreement
- I/We confirm that I/We are appointed by and acting with the authority of the Customer (where applicable) and that I am an authorised signatory for the Customer with full authority to enter into the Agreement on behalf of the Customer. If I do not have such authority, I shall be personally liable under the Agreement.

Signature..... Date.....

Print Full Name:

Designation:

Site Contact Name:

Site Telephone Number:

YOUR PAYMENT OPTIONS

Please see below the different ways that you can make your payment.

Please be advised that we must receive your signed LETTER OF ACCEPTANCE together with any payment. This is to ensure that we are able to process your payment and progress your project as quickly as possible.

Your signed LETTER OF ACCEPTANCE can be sent:

By Email:-

For Debit/Credit Card payment - Accountreceivable@scottishpower.com

or

For BACS payment - bankreconciliation@scottishpower.com

By Mail:-

SP PowerSystems Ltd, General Administration, 2nd Floor Avondale House, Phoenix Crescent, Strathclyde Business Park, Bellshill, ML4 3NJ

Methods of Payment:-

By Debit/Credit Card:-

Please call 0141 614 6902 quoting your reference number. Please note:- Payment can only be taken when we are in receipt of the signed LETTER OF ACCEPTANCE. Please email or post the LETTER OF ACCEPTANCE prior to calling.

Signed Acceptance can be sent via email to - Accountreceivable@scottishpower.com

By post:-

Please send your cheque together with your signed LETTER OF ACCEPTANCE to:-

SP PowerSystems Ltd, General Administration, 2nd Floor Avondale House, Phoenix Crescent, Strathclyde Business Park, Bellshill, ML4 3NJ

If the site address is located in Scotland please make your cheque payable to SP Distribution plc.

If the site address is located in England or Wales please make your cheque payable to SP Manweb plc.

By Bacs or Bank Transfer:-

If the site address is located in Scotland:

Bank: Royal Bank of Scotland plc
Address: 10 Gordon Street, Glasgow, G31 3PL
Account Name: SP Distribution plc
Account No: 10016323
Sort Code: 83-07-08
IBAN: GB21RBOS83070810016323
SWIFT: RBOSGB2L

If the site address is located in England or Wales:

Bank: Royal Bank of Scotland plc
Address: 10 Gordon Street, Glasgow, G31 3PL
Account Name: SP Manweb plc
Account No: 10016293
Sort Code: 83-07-08
IBAN: GB55RBOS83070810016293
SWIFT: RBOSGB2L

Signed Acceptance can be sent via email to - bankreconciliation@scottishpower.com

Please ensure that you quote our reference number when making any payment by BACS or Bank transfer.

YOUR OFFERS

YOUR FULL WORKS OFFER

SP Energy Networks will complete the contestable and non-contestable work.

Summary of the proposed works

We shall install and connect a Low Voltage (LV) supply with an export capacity of 18kVA operating over a single phases into the the [] site at grid reference E000000,N000000. Our Works will include extending the HV network a maximum of 896m 11kV OHL and 93m of LV cable , Excavation and reinstatement of the LV cable on site to be carried out by the customer

The following tables provide further detail of the charges associated with the Full Works offer.

A summary of the Full Works costs

This table splits out the cost by the type of work being proposed. The connection charge is the cost associated with the work required to provide you with your connection assets. The diversion charge is the cost associated with the work required to divert any existing assets to enable your connection. The reinforcement charge is the cost associated with the work required to reinforce the electrical system to enable your connection.

Charge description	Connection	Diversion	Reinforcement
Electrical Substation Works	00,000.00	0.00	0.00
Low Voltage Underground Service Works	0,000.00	0.00	0.00
High Voltage Overhead Line Works	00,000.00	0.00	0.00

A detailed breakdown of the Full Works costs

This table provides a detailed breakdown of the costs associated with the work being proposed. This table reflects the charges that are set out within our Common Connection Charging Methodology. This table also splits out the contestable and non-contestable elements of the work and any contribution made by SP Distribution plc.

Description Of Works	Proposed Quantity	Measure	Customer Contribution	SPD Contribution	Contestable	Non Contestable	Comment
F3 OTHER LV SERVICES							
Low Voltage FUSE	4.00	item	00.00	0.00	Y		
SUPPLY ONLY 60MM DUCT	90.00	m	000.00	0.00	Y		
PICK UP, DELIVER & RETURN CABLE DRUM	1.00	item		0.00	Y		
36MM ² 1-CORE INTERNAL MAINS CABLE	90.00	m	000.00	0.00	Y		
Sub Total			0,000.00	0.00			
F8 OVERHEAD LINE							
High Voltage ANGLE SECTION POLE	2.00	item	0,000.00	0.00	Y		
High Voltage/Low Voltage POLE STAY	6.00	item	0,000.00	0.00	Y		
OVERHEAD LINE SURVEY	1.00	km	000.00	0.00	Y		
1-PHASE POLE TRANSFORMER CONNECTION KIT	1.00	item	0,000.00	0.00	Y		
High Voltage 1-PHASE OVERHEAD LINE (L10)	662.00	m	00,000.00	0.00	Y		
EARTH CABLE GUARDS	1.00	item	000.00	0.00	Y		
High Voltage 1-PHASE 3MART FUSE & HOLDER	1.00	item	0,000.00	0.00	Y		
High Voltage SECTION POLE	1.00	item	0,000.00	0.00	Y		
High Voltage TERMINAL POLE	1.00	item	0,000.00	0.00	Y		
Low Voltage 200A 1-PHASE FUSE UNIT WITH WIRING	1.00	item	000.00	0.00	Y		
High Voltage/Low Voltage POLE STAY	2.00	item	000.00	0.00		Y	
ENGINEERING & MANAGEMENT (TOTAL LABOUR)	1.00	item	0,000.00	0.00		Y	
PROJECT MANAGEMENT (TOTAL LABOUR)	1.00	item	0,000.00	0.00		Y	
TECHNICAL STAFF (TOTAL LABOUR)	1.00	item	000.00	0.00		Y	
ESTABLISH High Voltage T-OFF CONNECTION FROM POLE	1.00	item	0,000.00	0.00		Y	
MAKE 1-PHASE T-OFF FINAL CONNECTION	1.00	item	000.00	0.00		Y	
Sub Total			00,000.00	0.00			
F7 SUBSTATIONS							
EASEMENT / SERVITUDE FEES	2.00	unit	0,000.00	0.00	Y		
60KVA Split Phase POLE MOUNTED TRANSFORMER	1.00	item	0,000.00	0.00	Y		
METERING PANEL	1.00	unit	000.00	0.00	Y		
3-PHASE POLE TRANSFORMER CONNECTION KIT	1.00	item	0,000.00	0.00	Y		
PROJECT MANAGEMENT (TOTAL LABOUR)	1.00	item	000.00	0.00	Y		
HIRE CRANE OR GRAB LORRY	1.00	Days	000.00	0.00	Y		
LABEL ENGRAVING	1.00	item	000.00	0.00		Y	
ASSESSMENT AND DESIGN FEE	30.00	unit	0,000.00	0.00		Y	
ENGINEERING & MANAGEMENT (TOTAL LABOUR)	1.00	item	0,000.00	0.00		Y	
Sub Total			00,000.00	0.00			
TOTAL CONNECTION CHARGE			00,000.00				

PAYMENT TERMS

There are no payment terms for this project

Please note that the Connection Charge for the Full Offer does not include the following costs:

- Design Approval of the Contestable Work
- Inspection and Monitoring of the Contestable Work
- Witness of Testing
- Supervision for offsite wayleaves and easements

YOUR POC OFFER

SP Energy Networks will complete the non-contestable work only. It is your responsibility to appoint an accredited independent connection provider (ICP) to work alongside SP Energy Networks to complete the contestable work.

Should you choose to use an ICP to work alongside SP Energy Networks to complete the contestable work your ICP will need to submit the following documents no later than four months from the date of this offer:

- The contestable design.
- Written confirmation from you of their appointment as your contestable work provider.
- Where relevant, confirmation of compliance with the CDM regulations.
- Where necessary, details of any subcontractor to be used in the completion of the Contestable Works.

The Works

POC - POINT OF CONNECTION

OHL Connection of customers network

Work involves the connection of an 11KV single phase OHL at grid reference E000000 N000000 onto the new T off pole and stays.

Load

This connection extend the HV network to a point where it will then be transformed down to an LV voltage to provide supply for a total connected 18kW generation non export with a load of 18kVA single phase 230 Volts, 50-Hertz alternating current.

POC grid reference

POC area grid ref: E000000, N000000

A summary of the POC costs

This table splits out the cost by the type of work being proposed. The connection charge is the cost associated with the work required to provide you with your connection assets. The diversion charge is the cost associated with the work required to divert any existing assets to enable your connection. The reinforcement charge is the cost associated with the work required to reinforce the electrical system to enable your connection.

Charge description	Connection	Diversion	Reinforcement
Electrical Substation Works	0.000.00	0.00	0.00
High Voltage Overhead Line Works	0.000.00	0.00	0.00

A detailed breakdown of the POC costs

This table provides a detailed breakdown of the costs associated with the work being proposed. This table reflects the charges that are set out within our Common Connection Charging Methodology. This table also splits out the contestable and non-contestable elements of the work and any contribution made by SP Distribution plc.

Description Of Works	Proposed Quantity	Measure	Customer Contribution	SPD Contribution	Contestable	Non Contestable	Comment
F3 OTHER L.V. SERVICES							
Sub Total			0.00	0.00			
F5 OVERHEAD LINE							
High Voltage/Low Voltage POLE STAY	2.00	item	0.000.00	0.00		Y	
CHARGE FOR POINT OF CONNECTION INFO	1.00	unit	0.000.00	0.00		Y	
ENGINEERING & MANAGEMENT (TOTAL LABOUR)	1.00	item	0.000.00	0.00		Y	
WITNESS TESTING	1.00	unit	0.000.00	0.00		Y	
INSPECTION AND MONITORING LEVEL 1	1.00	unit	0.000.00	0.00		Y	
PROJECT MANAGEMENT (TOTAL LABOUR)	1.00	item	0.000.00	0.00		Y	
TECHNICAL STAFF (TOTAL LABOUR)	1.00	item	0.000.00	0.00		Y	
ESTABLISH High Voltage T-OFF CONNECTION FROM POLE	1.00	item	0.000.00	0.00		Y	
MAKE 1-PHASE T-OFF FINAL CONNECTION	1.00	item	0.000.00	0.00		Y	
Sub Total			0.000.00	0.00			

Description Of Works	Proposed Quantity	Measure	Customer Contribution	SPD Contribution	Contestable	Non Contestable	Comment
F7 SUBSTATIONS							
LABEL ENGRAVING	1.00	item	0.000.00	0.00		Y	
ASSESSMENT AND DESIGN FEE	30.00	unit	0.000.00	0.00		Y	
ENGINEERING & MANAGEMENT (TOTAL LABOUR)	1.00	item	0.000.00	0.00		Y	
Sub Total			0.000.00	0.00			
TOTAL CONNECTION CHARGE			00.000.00				

PAYMENT TERMS

Not available for this project

Please note that the Connection Charge for the POC Offer does not include the following costs:

- Supervision for offsite wayleaves and easements

THE SCHEDULE

Additional information and customer requirements

SPPS Reference Number: 000000

Site Address: xxxxxxxx xxxxxx, xxxxxxxxxxxxxxxx xxxxxxxxxxxxxxxxxxxx xx0 0xx (the "Site")

Offer Date: 25.03.2016

This Schedule provides important information and details of key responsibilities. It's important you read it so you fully understand Our Works and any works we require you to undertake. This will help ensure we meet your timescales and prevent delays.

Please be aware, we'll only start work when the following conditions have been met:

- (i) all relevant Consents have been obtained;
- (ii) you've complied with all the relevant provisions of the Agreement placing obligations on you in respect of such connection; and
- (iii) if you're required to provide the Substation Accommodation, our acceptance of the Substation Accommodation and associated building work.

If all Our Works aren't completed within 12 months from the date of our receipt of your unqualified acceptance of this offer, we'll be entitled to amend and/or vary any terms and conditions of this offer and/or the Agreement, including, without limitation, the Charge(s) and/or other payments, to the extent that it is reasonable to do so.

We're entitled to determine, at our sole discretion, whether further studies are required as a result of the actual connection and/or design parameters of your Electrical Installation/Your Works differing from that provided by you. Where such studies are required we'll be entitled to revise the works, the charge and all dates specified in this agreement by giving written notice to this effect and this offer once accepted shall be read and construed as if such revisions were incorporated in it.

The offer only relates to Our Works at the site. It does not cover works on your Electrical Installation.

Your Safety

To avoid danger from cables and overhead lines, it is very important that you, your contractors and subcontractors follow the advice given in the Health and Safety Executive (HSE) documents HSE HSG 47 Avoiding Danger from Underground Services and HSE GS 8 Avoidance of Danger from Overhead Electric Power Lines, which can be found at: www.hse.gov.uk.

It is essential that the Electrical Installation is constructed and installed according to the British Standard Requirements for Electrical Installations BS 7671:2008 IEE Wiring Regulations 17th Edition. The Electrical Installation shall be inspected and tested in accordance with the general provisions of such British Standard Requirements and, where applicable, the Electricity Safety, Quality and Continuity Regulations 2002.

Further guidance relating to safety can be found at: www.spenergynetworks.co.uk/safety

KEY RESPONSIBILITIES

Full Works Offer

The Customer shall:

Provide free and uninterrupted access and egress to the works.

Provide and attach a suitable sized backboard (single phase 500mm x 700mm, three phase 700mm x 700mm) and fireproof material to the wall at the proposed meter location for the termination of our equipment. This backboard must be between 500mm and 2000mm above floor level. Our equipment will then be fixed to this board.

Provide suitable accommodation, including a backboard for the metering equipment. Each space provided should be 2000mm high, 1000mm wide, and 1000 mm deep, and between 500mm and 2000mm above floor level. A minimum of 750mm access in front of the equipment should be provided. Any variations to these dimensions must be agreed with us.

Ensure that electricity service terminations in individual premises are not located in bathrooms, airing cupboards, kitchens or above doorways.

Ensure that you have arranged your own qualified electrician to take responsibility for your wiring installation and to make the final connection to the outgoing terminals of the disconnect switch.

Provide suitable lay down, storage and welfare facilities free of charge.

Embedded Generation

Open and sand all track and make available to us for the cable installation in one continuous visit.

Undertake all excavations within your property and expose the existing service cable at approximately 600mm below finished ground level and install a red polyethylene duct (complying with the current edition of the Electricity Association Technical Specification (EATS) specification 12-24) together with a draw wire, from existing service cable to the new meter point.

Undertake all on site excavation including road crossing, mains and service ducting (appropriate for utility), backfill including the removal of all excess arising materials and permanent reinstatement. All trenches must be blinded with graded sand before and after cable(s) are installed.

Ensure that the excavations are completed as per National Joint Utilities Group (NJUG) recommendations. The excavations should be carried out on a just-in-time basis with prior agreement from us and to our satisfaction. Please refer to the NJUG website for further information: www.njug.org.uk/category/3/pageid/5/

Disturbance on our Distribution System

The Generating Plant output and connected load must not cause disturbances on our Distribution System and it is essential that your load characteristics comply with the requirements of Engineering Recommendations G5/4-1 (Limits for Harmonics), P13/1 (Electric motors - Starting Conditions) and P28 (Planning Limits for Voltage Fluctuations). You must submit full details of any load which might cause disturbances, before connection of your installation (including the Generating Plant) whether covered by these guidance documents or not, for our consideration. Further information is available on request.

Protection Relays

Provide and install protection relays as agreed with us. protection for this installation is to comply with the standards of G59 as this installation will be fed from a split phase transformer and is 18kW. Further information is available on request.

Appointment of Electricity Supplier

This letter is an offer for Connection(s) to the our system only. It is essential that an Electricity Energy Supplier is appointed by you. On our receipt of your signed and dated unqualified acceptance of this offer, we will send you the MPAN(s) (Meter Point Administration Number) for the Connection(s). This number is unique to each Connection and will be required by the chosen Electricity Energy Supplier(s) to supply and fit your import/export meter(s) and register a Connection.

Please note that there will be a period of time between the appointment of an Electricity Energy Supplier and the instruction from the Electricity Energy Supplier to energise a Connection.

An Electricity Energy Supplier is the company who you enter into an agreement with for the supply and payment your electricity. We are not an Electricity Energy Supplier; therefore, we will not install your import/export meter(s).

We/ICP shall:

Connect and install 696m 11KV OHL single phase line at grid reference E000000 N000000 to the customers site at xxxxxxxxxxxx xxxxxxxxxxxx terminating into the new OHL transformer on the new HV terminal pole- see drawings for details

Install 93m of LV x1 single phase LV cable from the new transformer to the customers metering point locatio at grid reference E000000,N000000

Install new cut out at the customers metering point and terminate Our LV cable into the cut out

Obtain Wayleave(s)/easement(s) from third party land owner(s).

Obtain necessary consents for Substation plant.

Obtain consents specifically associated with overhead lines e.g. Section 37 of the Electricity Act approval to erect overhead lines etc.

Undertake a survey of associated overhead lines e.g. determination of pole positions, tree clearance etc.

Undertake route marking prior to construction e.g. pegging of overhead line route and pole positions etc.

Obtain specific Environmental Consents i.e. Conservation Area, Listed Buildings etc.

Nationally agreed compensation payment negotiations with individuals or organisations e.g. crop loss or land damage. This excludes any third party commercial compensation payment charges which will have to be negotiated separately by the Customer or their Agent

Point Of Connection (POC) Offer

The Customer shall:

-Install new 11kV OHL single phase line adjacent to grid reference E000000 N000000 to the customers site at xxxxxxxxxxxx xxxxxxxxxxxx terminating into the new OHL transformer on the new HV terminal pole- see drawings for details. Customer not to connect to the OHL network

Install 93m of LV x1 single phase LV cable from the new transformer to the customers metering point location.

Install new cut out at the customers metering point and terminate Our LV cable into the cut out

Obtain Wayleave(s)/easement(s) from third party land owner(s).

Obtain necessary consents for Substation plant.

Obtain consents specifically associated with overhead lines e.g. Section 37 of the Electricity Act approval to erect overhead lines etc.

Undertake a survey of associated overhead lines e.g. determination of pole positions, tree clearance etc.

Undertake route marking prior to construction e.g. pegging of overhead line route and pole positions etc.

Obtain specific Environmental Consents i.e. Conservation Area, Listed Buildings etc.

Nationally agreed compensation payment negotiations with individuals or organisations e.g. crop loss or land damage. This excludes any third party commercial compensation payment charges which will have to be negotiated separately by the Customer or their Agent

POC location at E000000 N000000

We shall:

POC - POINT OF CONNECTION

SP Energy Networks to establish a T off connection at grid reference E000000 N000000

Load

This connection will provide supply for a total connected 118kVA single phase at 230 Volts, 50-Hertz alternating current.

Voltage drop

HV connection of customers network

Make off 1 x high voltage termination onto the 11kV OHL network

POC grid reference

POC area grid ref: E000000 N000000

Charge for point of connection information

Charge for inspection and monitoring of the customers works

Charge for Witness of testing of the installation

Assumptions and Clarifications

Our offer is based on the assumptions and clarifications below; however, should any of these assumptions and/or clarifications change we shall be entitled to revise the works, the charge and all dates specified in this agreement by giving written notice to this effect and this offer once accepted shall be read and construed as if such revisions were incorporated in it.

Normal Working Hours

Our offer is based on all works being carried out during Normal Working Hours (Monday to Friday 08.30hrs to 16.30hrs) excluding any public holidays applicable to the Site. We have made no allowance for a third party requirement which results in us having to work out with Normal Working Hours or reduce the working day.

Excavation and Reinstatement

When you have agreed to carry out works associated with excavating in public land (footpath, carriageway, verge etc) you will be responsible for attaining necessary permissions/consents, insurance, indemnities, road opening notices and securing the excavation area. Furthermore, to mitigate the Health, Safety and Environmental risks incumbent with the foregoing, it is your responsibility to provide suitable plant and operatives to facilitate backfilling and reinstatement works without delay following the completion of Our Works.

The route upon which our offer is based assumes the following:

Maximum of 30m track within the owners site- excavation and reinstatement to be carried out by the customer

We have allowed for reinstating a maximum of 75mm each side of our excavations in accordance with the Highway/Road Authorities and Utilities Committee (HAUC(UK)/RAUC(Scotland)) specification.

We have made no allowance for dealing with the excavation and removal of any unforeseen hard materials. e.g. rock, concrete or reinforced concrete etc.

We have made no allowance for costs associated with specialist contractor excavation/reinstatement of non standard surface types. e.g Granite Sets, Caithness slabs etc.

We have made no allowance for working in or the treatment of and/or removal of contaminated/hazardous materials or for the rectification of unavoidable land damage. e.g. field drains, crop damage etc.

Our proposed route has been established without reference to site investigation and/or trial hole details. Should an alternative/deviated route be required we will provide you with details of the revised route together with any additional costs.

No allowance has been made for any noise studies, geotechnical and earthing surveys and other appropriate technical investigations of ground conditions, environmental impact surveys, studies and/or statements. If these studies, etc. are required you will be required to cover any reasonable costs (including the costs of using external specialists and legal costs) associated with this work. Should such subsequent studies show that additional works are required it will be your responsibility to cover the cost of this work.

Our offer excludes any restrictions and associated costs that may be imposed by Water Authorities, Road Authorities, National Grid (or S.G.N. or similar relevant Utility Asset Owning Company), any DNO, IDNO or relevant Utility Asset Owning Company), S.E.P.A., Rail Authorities, Forestry Commission or similar Authorities/Organisations.

We have not seen or been provided with copies of any reports pertaining to environmental, animal welfare, archaeological digs, areas of special scientific interest, hydrological and topographical matters.

Security

Security for the on site works shall be provided free of charge by you. You are responsible for insuring the works against loss, theft or damage for the duration of our works. Any loss or damage necessarily incurred by us, howsoever caused, shall be recompensed to us.

Over Head Line Works

The Overhead Line works costs associated with this project are provided as an undefined provisional sum. Our Works are subject to a network survey which shall be carried out upon receipt of a signed acceptance and payment. Once the actual costs have been established the provisional sum shall be replaced by the actual costs.

Connection Agreement

A Connection Agreement will be required, and needs to be completed before your installation can be energised. The site specific details (including these in the Offer Letter) will need to be included and any technical or other conditions we may need to impose.

Any installation for generation must comply with the requirements of the Electricity Safety, Quality and Continuity Regulations 2002 and the principles of Engineering Recommendation G59/1 and G75/1 issued by the Energy Networks Association and with the requirements embodied in G5/4-1 and P28 at the connection point. Precise methods of protection and mode or restriction of operation (e.g. Voltage regulation) to be agreed subsequently between both parties and written into the Connection Agreement.

In addition to P28 if your generation causes a voltage depression greater than 1%, no similar voltage depression should be caused within two hours. This is to be achieved by a timing relay. Precise methods of protection and mode or restriction of operation (e.g. Voltage regulation) to be agreed subsequently between both parties and written into the Connection Agreement.

Connection/Energisation of Generating Plant

We are not obliged to permit connection of your installation (including the Generating Plant) directly or indirectly to the Distribution System unless we are satisfied such Generating Plant will not cause danger to or undue interference with our Distribution System or supply to others. The point of connection will be at the outgoing terminals of the metering unit. We shall not be obliged to permit connection of the installation to the Distribution System nor to energise the Connection Point unless all payments due under this Agreement at that time have been made.

Phase Balance and Power Factor

The Generating Plant output and connected load is over a single phase and across the circuits, complying with Engineering Recommendation P29 (Planning Limits for Voltage Unbalance). The vector sum of the real and reactive power should not exceed the kVA limit as specified.

Distribution Code

Both parties shall comply with their respective obligations as in the Distribution Code. Other relevant regulations include the Electricity Safety, Quality and Continuity Regulations 2002.

Your attention is drawn to the provisions of our Distribution Code under which we are required to prepare and agree with you a responsibility schedule and an operation diagram showing the agreed ownership boundaries. We also refer you to the Electricity at Work Regulations 1989 and the need to ensure that high voltage equipment is operated by competent persons

Special Generation Connection Conditions

Schedule 4 of the Connection Agreement sets out the details of these conditions. Some of these conditions will apply prior to the connection being made.

The following restrictions and constraints on the availability of the export capacity shall apply:-

- a) The connection provided is "Unfirm".
- b) During System Normal the maximum export capacity is as stated in part 2 Connection Characteristics above.
- c) We may plan and execute other outages of the distribution system as mentioned in the Connection Agreement.

The above special conditions do not cater for the emergency situations, which may occur from time to time. We may also reserves the right to instruct generators to reduce or curtail power export and reactive power import during time of operational difficulties (or as so directed by our control engineer).

Desk-Top Assessment

This offer and the enclosed design are based upon a desk-top assessment utilising information from existing utility records and information provided by the Customer at the time of application. On occasion the enclosed design may require to be altered. It will be the Customer's responsibility to pay for any reasonable and necessary additional costs incurred, including any additional cables, lines or works, in the following circumstances:

- a) where, following completion of a survey of the route, an alternative route is required or deviations to the proposed route are required; and/or
- b) where technical investigations of ground conditions demonstrate that additional work or amendments to the proposed works are required.

We will notify the Customer of any additional charges which shall be payable in accordance with the provisions of this Agreement. Where the findings of the survey(s) and/or technical investigations result in a rebate of charges, you shall be notified by us of the amount of the rebate and the timescales within which payment shall be returned to you.

Should you otherwise require any changes to the enclosed design, please inform us as soon as possible in order that we might consider any necessary changes to the scope of Our Works.

Additional Charges

In addition to the Connection Charge we may require you to pay additional charges. Such charges will be payable in accordance with the provisions of this Agreement. We will notify you from time to time of any such additional charges.

This offer is based on the following:

- a) The proposed route is based upon a desk-top assessment and initial survey. If an alternative route is

required or deviations to the proposed route increase the overall route length you will pay for any reasonable and necessary additional costs incurred to facilitate the provision of that new route including any additional cables, lines or works and we will revise the Connection Charge accordingly.

b) No allowance has been made in this offer for any noise studies, ground surveys, earthing studies, environmental impact surveys, studies and/or statements. If these studies, etc. are required you will pay our reasonable costs (including the costs of using external specialists and legal costs) associated with this work. If any reasonable additional costs arise out of the need to meet the requirements of these studies then you will pay for the cost of this work.

Connection Agreement and Site Responsibility Schedule

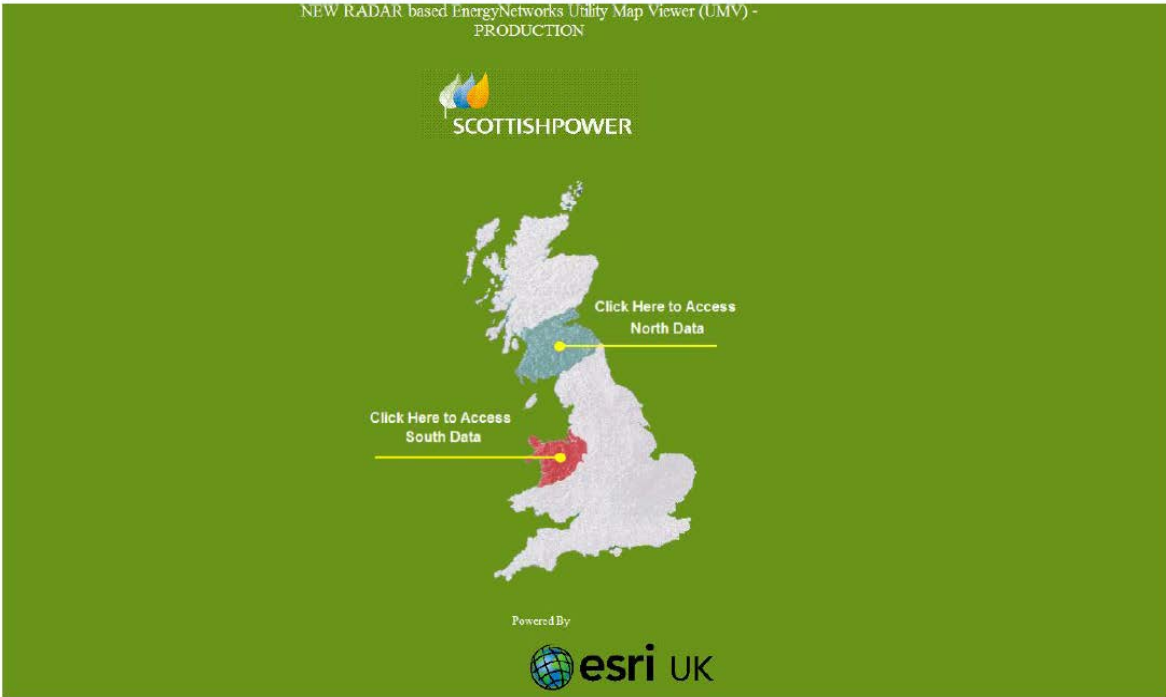
All standard Low Voltage demand connections, single phase generation and micro generation (connected under Engineering Recommendation G83) are subject to the National Terms of Connection (NTC) as published by the Energy Networks Association (ENA) at:

www.connectionterms.co.uk

For all other connection types, a Site-specific Connection Agreement and interface Site Responsibility Schedule will require to be completed and entered into prior to the Connection being energised.

Appendix 3 – UMV and Transformer Loading Database screenshots

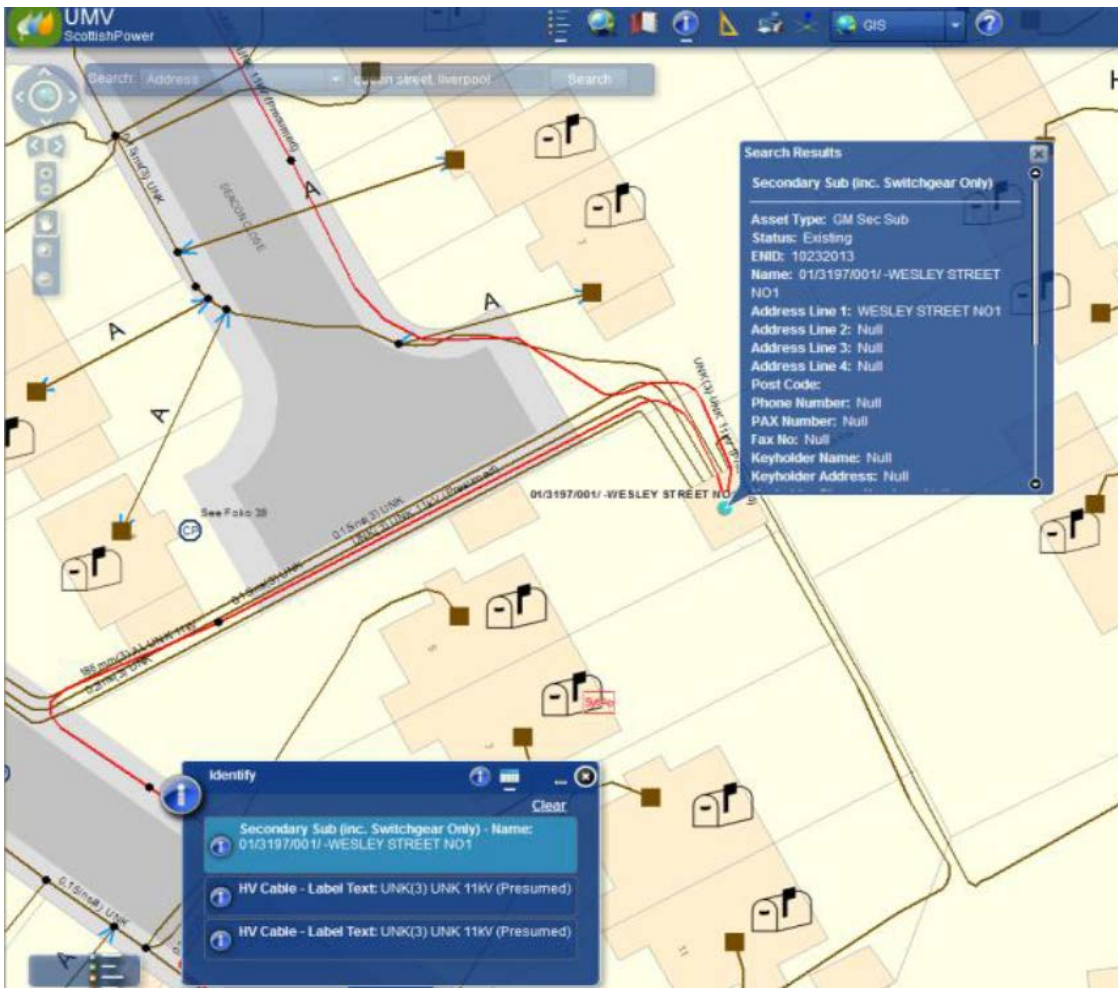
i) UMV/GND/Power On Portal Screen



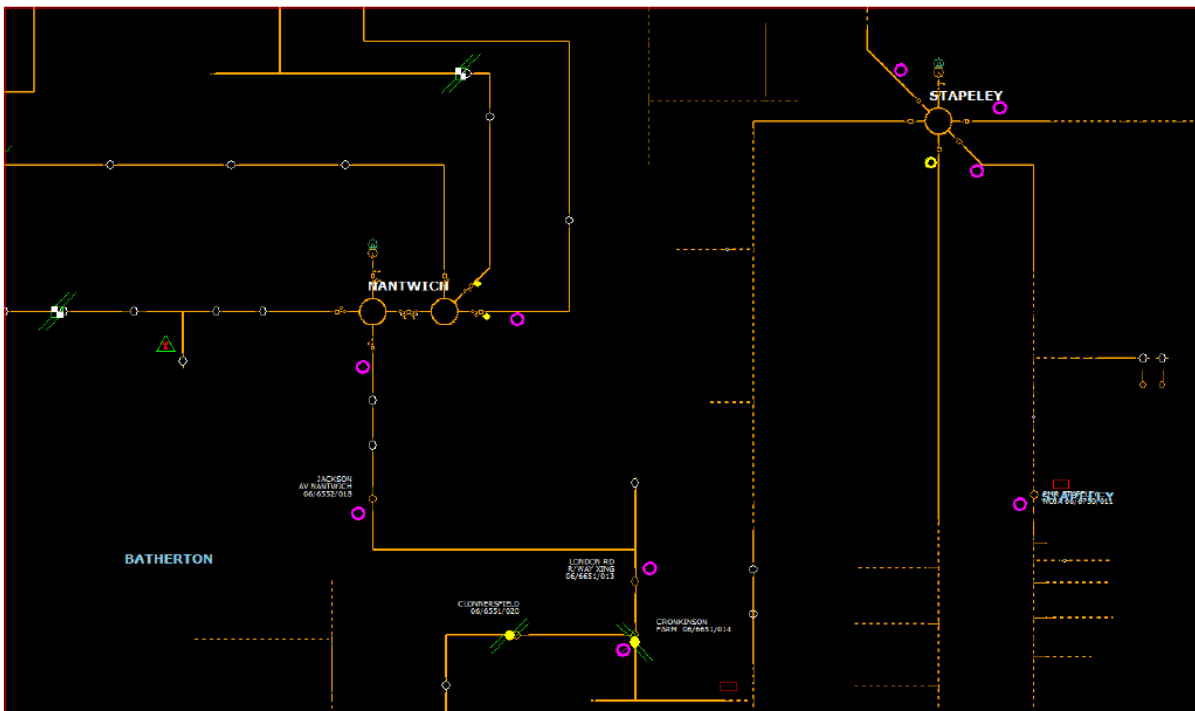
ii) UMV Data Screen example



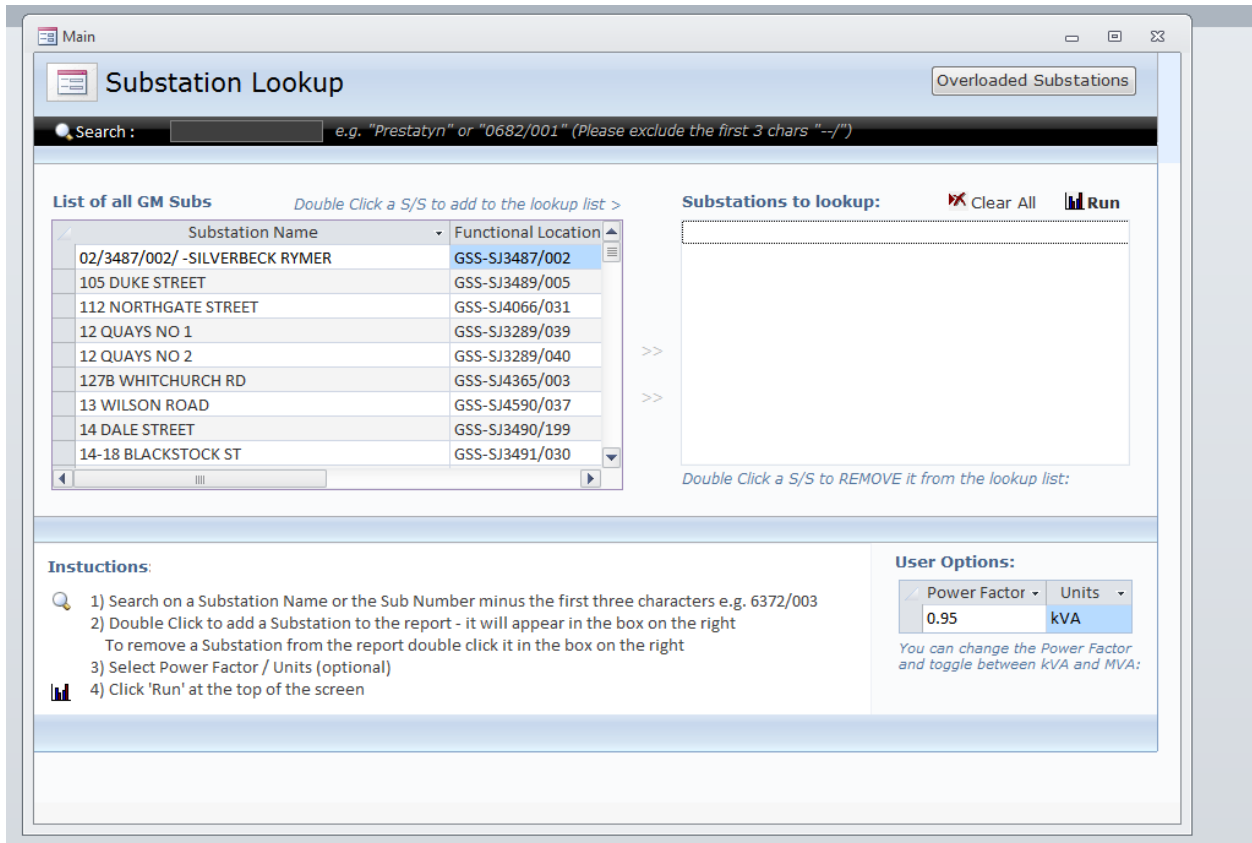
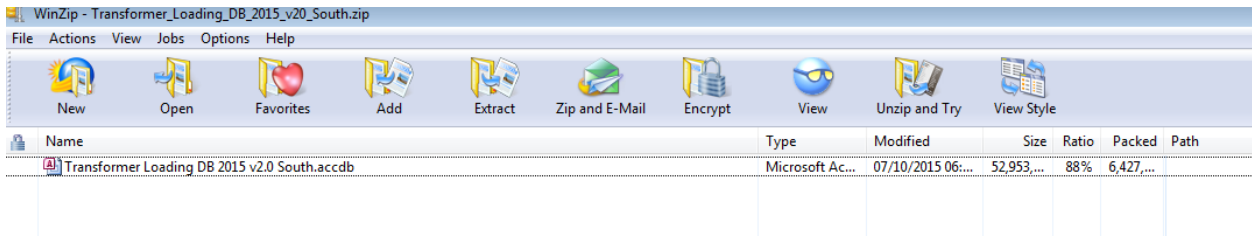
iii) UMV Street Level screen



iv) UMV Radial HV Network



v) Transformer Loading Database Portal screen



vi) Transformer Loading Database example screen

