

SP Energy Networks Heat Map Easy Guide

The following pages will guide you through the key features of our online heat maps to show case the various changes and facilities that have been made in the past year. The link below takes you to SP Energy Networks Heat Map web page.

www.spenergynetworks.co.uk/pages/connection_ opportunities.aspx

Generation Connections

Are you thinking about installing a new generator? If so, it will need to be connected to our network either through your existing supply or through a new electricity connection.

Before we can connect you, we have to make sure that our existing network is capable of providing the power you need to operate your equipment.



For smaller projects (smaller than or equal to 50kW) there is normally no need to worry about the capacity of our network but for larger projects we may need to carry out some work to connect your generator. We recommend that you engage with us at an early stage as it's important that you are aware of the timescales and costs involved before you begin your project.

In advance of this we have a series of heatmaps that will give you an indication of the networks' capability and a better understanding of potential opportunities to connect your generator to the electricity network.





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Terms

Once on this page click on the license area you wish to review and this will take you to the SP Energy Networks terms.

DISTR	BUTED GENERATION SP DISTRIBUTION HEAT MAPS TERMS				
This applic area (Centr	ation provides an indication of the potential opportunities to connect Distributed Generation (DG) to the 11kV and 33kV network in the SP Distribution plc lice al & Southern Scotland).				
Each subst	ation and circuit have been assigned one of the following categories:				
Category	y Description				
Green	All operational factors are within tolerable limits and so opportunities may exist to connect additional Distributed Generation without reinforcing the netw (subject to detailed studies).				
Amber	At least one factor is nearing its operational limit and hence, depending on the nature of the application, network reinforcement may be required. However, this can only be confirmed by detailed network analysis.				
Red	At least one factor is close to its operational limit and so installation of most levels of Distributed Generation and a local connection is highly unlikely. It m also require extensive reinforcement works or given the lack of a local connection, require an extensive amount of sole user assets to facilitate such a connection.				
Whilst all re that may be	asonable care has been taken in the preparation of the information and data presented within these pages, SP Energy Networks is not responsible for any lo attributed to the use of the data.				
By clicking	'OK', you acknowledge that you have read and understood the information provided above.				



Features

The next set of screen shots will help to showcase some of the features and information that can be obtained from our heat maps.

Red indicates no connection capacity, Amber some limited capacity. Red no capacity to connect either due to faults or the theoretical capacity limited has been reached, connected and contracted.

Green indicates that currently there is connection capacity at this location and you can check how much by opening the information box at the location to see if this meets the needs of your proposed project.



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Tools

To aid search and clarity the heat maps have various filters and tools to help you with your inquiry as outlined below



9. Legend Icon to give names to various areas of the map

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Three Street Views

Three typical views, street, satellite and topography.

Street view provides details of all streets by name and focuses on the road lay out in relation to our distribution network.

Satellite view gives an over all view from space to give the customer a chance to see all the key features, such as buildings, trees etc. that they may need for planning their projects.

Topography view highlights the key features of the terrain that is important when deciding a cable rout and or the movement of equipment to proposed sites.







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Key Functions

The key function for all your detailed information is contained in the nodes for grid supply points and primary sub stations.

It is key to note that the page of information displayed can be scrolled up and down to show more information and will be one of multiple pages in this case 1 of 16.

In addition the name and contact details of the relevant engineer are shown too.



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Alternative Connection Offers

Where your preferred area is constrained RED there may be other potential flexible offers we can suggest for you as outlined below.

TERNATI	VE DG	CONNECTION OFFERS
Alternative Co	onnection O	ffers at Distribution Level Alternative Connection Offers at Transmission Level
Altornative	Conne	option Offers at Distribution Lovel
Allemative	Conne	ection offers at distribution Level
Product	Voltage	Definition
Non-Firm	D	A single circuit connection
Non-Firm ANM	D	An actively managed connection whereby available network capacity is made available based upon real time control and based upon contracted principles of access. The ANM connection can either be as part of a multiple generator scheme or local constraint management solution
Non-Firm ELD	D	Using a pre-determined export limit, customers can chose to either curtail or self-balance embedded generation and load so as not to exceed the maximum export limit.
Non-Firm DSM	D	Agreement based upon contractual commitment by the customer to materially reduce its capacity during periods determined by SPD.
Temperature	D	Identification of headroom in cables that would allow more power export without the need of

Alternative C	onnection (Offers at Distribution Level Alternative Connection Offers at Transmission Level
Iternative	e Conne	ection Offers at Transmission Level
Product	Voltage	Definition
Restricted Available Access (RAA)	Т	When the transmission network is intact, the network conditions may be such that the network becomes overloaded, requiring generation to be disconnected. Available on an interim basis only for developments with planning permission
Non-Firm	т	For an intact transmission network, no overloading may occur and thus the generation will not be disconnected. Following a single transmission circuit outage (planned or unplanned), the generation will be disconnected if overloading of the transmission network results. This will be dependent upon the particular network conditions (typically maximum generation and minimum load).

We hope this guide has helped and encouraged you to explore all the key features if you have any further questions please contact one of our SPD or SPM account managers and they will be happy to respond:

www.spenergynetworks.co.uk/pages/ connections_contact_us.aspx