

SPEN Vulnerability map tool User guide

^{15th} February 2019

Vulnerable source data & output data sets

Below are the sources of our Vulnerable data & the information we utilise from them

National statistics

- Census
- ONS/National records of Scotland
- Public health England
- Stats Wales
- Scottish Government

Outputs

- o Population
- Number of people of pensionable age (60 years plus)
- Number of children 5 or under
- Number of people with longterm physically limiting health conditions
- Number of people who don't speak English well or at all
- Estimated number of people on dialysis
- Prevalence of dementia
- People with severe mental health issues
- Number of people blind or partially sighted

Other vulnerable stats

- DWP (Dept. for Working Pensions)
- BEIS (Dept. for Business, Energy & Industrial strategy
- DCLG (Dept. for Communities & local gov)
- > Care inspectorate
- Care commission

Outputs

- Number of households
- Population
- o over 65 years
- o over 75 years
- o over 85 years
- o Under 16 years
- Under 5 years
- Lone pensioners
- Lone parents
- Children in low income households
- Low or no qualifications
- o Low income employment
- Long-term unemployed
- People in bad or very bad health
- o People whose activities limited a lot
- Disability benefits
- Child disability benefits
- Mental health benefits
- o Number of care homes
- o Care home residents
- \circ People providing over 20 hrs per week of care
- People who cannot speak English well or at all
- Ethnic minorities
- Dwellings which are private rented
- Fuel poor households (England)
- o Dwellings rated in SAP bands EFG
- o Households with no car

Experian MOSAIC profiles

- Public sector view
- 66 profiles (20 vulnerable)
- Vulnerable weighting applied against use cases
- Identification of Low Resilient Communities

Outputs

- Outlying Seniors
- o Families with Needs
- Aided Elderly
- Dependent Greys
- Estate Veterans
- o High Rise Residents
- Solo Retirees
- Far-Flung Outposts
- Local Focus
- Disconnected Youth
- o Childcare Squeeze
- Pocket Pensions
- Streetwise Singles
- Crowded Kaleidoscope
- Asian Heritage
- o Renting a Room
- Seasoned Survivors
- o Inner City Stalwarts
- o Bungalow Haven
- o Low Income Workers

SPEN Referral services

Below is a view of the additional support services we offer. More info available on our webpage



Support Services:





















Each web link button provides a video overview of each service



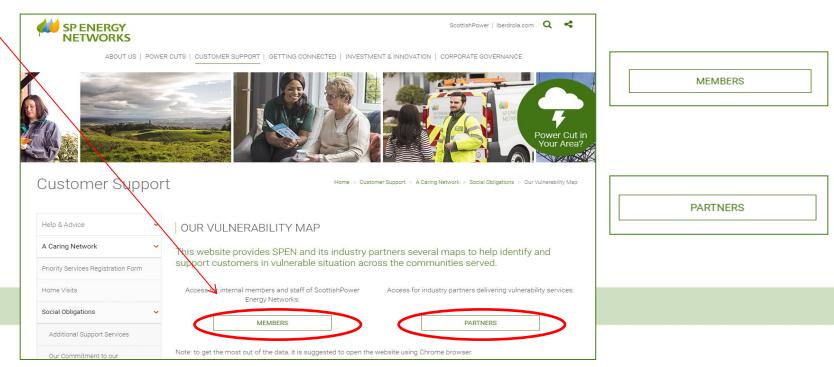
Map tool – Access & Initial screen



The Vulnerability map tool is accessible through the SPEN website domain: www.spenergynetworks.co.uk/pages/our_vulnerability_map.aspx/pages/our_vulnerability_map.aspx

There are 2 views within the 'Map tool':

- Members This is for SPEN resources and Contractors which provides vulnerable data views of Substations and our Districts
- Partners This is for other utility companies and 3rd parties who work with SPEN to provide geographical views of vulnerable datasets linked to the areas we support



Map tool – Partners view



The Partner view on the Map tool will offer 4 functions on how to view SPEN Vulnerable data sets:

PAR ⁻	TNERS	
Access	s for industry partners delivering vu	ulnerability services.
	AREA ANALYSIS	PARTNER ANALYSIS
	SEARCH BY POSTCODE	SEARCH BY SUBSTATION

Area analysis

An interactive map allowing a user to click their cursor on any location which will display various vulnerable data sets associated with the area

Search by postcode

A simple postcode search function which will link to a local area (LSOA**) view of vulnerable data sets & a comparison of SPEN PSR vs National Statistics

Partner analysis

A view of SPEN's partnerships within Local Authorities and the services they deliver in that area

Search by substation

A simple substation search function which will link to a local area (LSOA**) view of vulnerable data sets & a comparison of SPEN PSR vs National Statistics

Map tool – Members view



The Members view on the Map tool will offer 6 functions on how to view SPEN Vulnerable data sets:

М	EMBERS		
Acc	ess for internal members and staff of	Scottish P	ower Energy Network.
	AREA ANALYSIS		PARTNER ANALYSIS
	PSR CATEGORY ANALYSIS		RESILIENCE ANALYSIS (RANKING)
	SEARCH BY POSTCODE		SEARCH BY SUBSTATION

Area analysis

An interactive map allowing a user to click their cursor on any location which will display various vulnerable data sets associated with the area

PSR category analysis

A view of SPEN's PSR customer base and national stats with the ability to filter by our District depot area of coverage

Search by postcode

A simple postcode search function which will link to a local area (LSOA**) view of vulnerable data sets & a comparison of SPEN PSR vs National Statistics

Partner analysis

A view of SPEN's partnerships within Local Authorities and the services they deliver in that area

Resilience analysis (ranking)

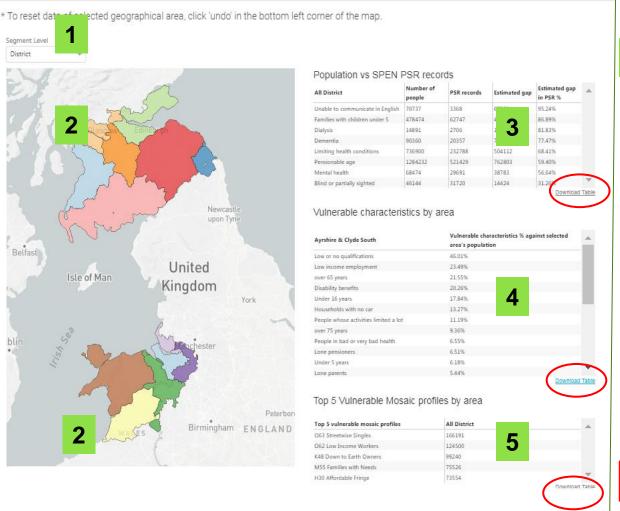
A view that ranks substations by their community resilience within a district alongside LSOA** PSR gap analysis

Search by substation

A simple substation search function which will link to a local area (LSOA**) view of vulnerable data sets & a comparison of SPEN PSR vs National Statistics

Area analysis

An interactive map allowing a user to click their cursor on any location which will display various vulnerable data sets associated with the area





- Filter by SPEN District, Local Authority, Council ward or LSOA
- Use your mouse to click on the desired location on the map
- SPEN's PSR premise counts compared to national statistics
- Other Vulnerable datasets related to the selected area (LSOA level)
- Top 5 Experian

 'Vulnerable' MOSAIC

 profiles linked to the

 selected area
- Ability to download the dataset

AREA ANALYSIS

Partner analysis

A view of SPEN's partnerships within Local Authorities and the services they deliver in that area



PARTNER ANALYSIS

This page covers SPEN's partnerships within Local Authorities and the services they deliver in the area. As well, the table on the right displays the coverage and gaps of overall services for the selected Local Authority.

Select Local Authority and service:



The table on the top right hand corner of the screen shows which services are delivered and which aren't for the selected local authority - this table is not filtered by services.

The table below provides an overview services delivered by partners, filtered by local authority and type of support.

Services	Gap	per	Local	Authority
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Local Authority	Clasgo	w City	
Service	Count	Coverage	Gap
Best tariff	1	1	0
Careers support	1	1	0
Debt advice	1	1	0
Finding a friend	5	1	4
Good food & good friends	1	1	0
Help & advice about benefits	3	1	2
Help for those with Dementia	1	1	0
Help with your weekly shop	1	1	0
Keeping warm	1	1	0
Staying safe at home	1	1	0
Total	16	10	6

Overview of Services per Local Authority

Local Authority	Service •	Age band	Ex Coalfield employee	Ex Military Only	Partner
Glasgow City	Debt Advice	Unknown	Unknown	Unknown	Home Energy Scotland

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1 Filter by Local authority

2 Filter by Referral Service

View of selected Local
Authority & Service with
related Partner(s) info

Local authority overview on partner coverage

PARTNER ANALYSIS

PSR category analysis

PSR category analysis

A view of SPEN's PSR customer base and national statistics with the ability to filter by our District depot area of coverage



PSR CATEGORY ANALYSIS

The tables on this page break down the estimated number of individuals in each PSR category compared to the number of PSR records that SPEN has. This allows for the assessment of SPEN's vulnerability coverage and estimated gap.

Select district:



The table below indicates the estimated number of peole in each PSR category, the number of PSR records that SPEN holds and the estimated gap between the two measures.

The number of individual PSR records that SPEN holds in each category are broken-down in the table on the right.

PSR Gap Analysis

DISTRICT	PSR Category	Number of people	PSR records	PSR Coverage %	Estimated gap %
Merseyside	Other	-	45855		
Merseyside	Dementia	13475	3931	29%	71%
Merseyside	Limiting health condition	136934	86646	63%	37%
Merseyside	Mental health	14174	6558	46%	54%
Merseyside	Pensionable Age	187198	83044	44%	56%
Merseyside	Dialysis	2707	479	18%	82%
Merseyside	Blind or partially sighted	5606	5693	102%	-2%
Merseyside	Families with young children 5 or under	78743	11683	15%	85%
Merseyside	Unable to communicate in English	7909	723	9%	91%

Number of PSR records per Category

PSR Category	Count of PSR
Blind or partially sighted	5693
Blind	1199
Partially sighted	4494
Dementia	3931
Dementia(s)	3931
Dialysis	479
Dialysis, feeding pump and automated medication	479
Families with young children 5 or under	11683
Families with young children 5 or under	11683
Limiting health condition	86646
Chronic/serious illness	18008
Developmental condition	3483
Hearing/speech difficulties (inc. Deaf) Heart, lung & ventilator	8412
Heart, lung & ventilator	2127
Nebuliser and apnoea monitor	2455
Oxygen concentrator	2254
Physical impairment	27698
Poor sense of smell	127
Restricted hand movement	986
Stair lift, hoist, electric bed	2775
Unable to answer door/restricted movement	18321
Mental health	6558
Mental health	6558
Other	45855
Additional presence preferred	344
Careline/telecare system	475
Cust Password	44
MDE electric showering	332
Medicine refrigeration	1797
Total	244612

- 1 Filter by SPEN District depots area of coverage
- View of PSR premise base vs National stats aligned to filtered District
- View of all PSR category counts aligned to filtered District

PSR CATEGORY ANALYSIS

Resilience analysis

Resilience analysis (ranking)

A view that ranks substations by their community resilience rating within a district alongside LSOA**

PSR gap analysis



RESILIENCE ANALYSIS (RANKING)

This page provides a table that ranks substations by their community resilience. A view of top 100 ranked substations within a district can be seen alongside a selected substation's LSOA PSR gap analysis.

Select district and preference of viewing top 100 substations by LCR rank:





- 1. Select 'LCR Rank' column to sort substations by ascending or descending ranking.
- Select any value along the row of preferred substation and rank to view its PSR gap analysis in the table below.

Community	Resilience	Analysis	and	Ranking

Substation Name	Substation UDB	POSTCODE	Substation Ward	DISTRICT	LCR Rank	Top 100 Rank
ABBEYBANK	10196626U	DG2 8BY	Castle Douglas and Crocketford	Dumfries	274	No
ACADEMY		ML3 6UQ	Hamilton South	Dumfries	526	
ACADEMY MOFFAT	10190925U	DG10 9HS	Annandale North	Dumfries	226	No
ACADEMY SF6		DG6 4JE	Dee and Glenkens	Dumfries	152	
AE VILLAGE	10196789U	DG1 1RH	Lochar	Dumfries	288	No
AE VILLAGE NORTH			Lochar	Dumfries		
AFRICANDA RD	10191527U	DG16 5LD	Annandale East and Eskdale	Dumfries	526	No
AIRD CRES			Stranraer and the Rhins	Dumfries		Yes
AIRD DONALD PARK	10191008U	DG9 8RP	Stranraer and the Rhins	Dumfries	526	No
ALLISONS BANK		DG16 SEP	Annandale East and Eskdale	Dumfries	526	
ANDERSON ST	10192353U	DG4 6QN	Mid and Upper Nithsdale	Dumfries	115	No
ANNAN RD			Lochar	Dumfries	40	Yes
ANNAN RD	10197017U	DG1 3EY	Lochar	Dumfries	438	No
ANNAN RD GRETNA NEW	14255989U	DG16 5LN	Annandale East and Eskdale	Dumfries	276	

PSR Gap Analysis

LSOA PSR category	S01007566 Number of people	PSR records	Coverag	Estimated gap %
Families with young children 5 or under	36	3	33	929
Limiting health conditions	44	17	27	619
Pensionable age	175	69	106	619
Unable to communicate in English	8	0	8	1009

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What is a Low Community Resilience (LCR) ranking? Using MOSAIC public sector profiling to indicate low levels of resilience, a Low Community Resilience ranking (LCR) per substation was created by summing the proportions of people linked to each substation in the different vulnerable situations

1 Filter by SPEN District depot area of coverage

Filter by view of the Top 100 LCR* ranked substations

View of all filtered substations
Ability to select a substation for PSR gap analysis view below

View of PSR premise base vs National stats aligned to selected Substation

RESILIENCE ANALYSIS (RANKING)

Search by Postcode

Search by postcode

A simple postcode search function which will link to a local area (LSOA**) view of vulnerable data sets & a comparison of SPEN PSR vs National Statistics

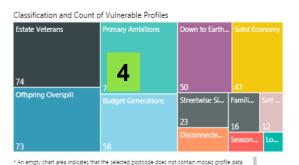
SEARCH BY POSTCODE

This page enables the analysis of vulnerability mosaic profiles, estimated PSR gaps and proportion of vulnerability profiles in the LSOA to which a postcode is linked.

Enter postcode



PSR Gap Analysis				
PSR category	Number of people	PSR records	Estimated gap	Estimated gap %
Unable to communicate in English	19	1	18	95%
Families with young children 5 or under	2 54	7	47	87%
Limiting health conditions	J 127	37	90	71%
Pensionable age	145	57	88	61%



** Furtner information on profiling can be found here; https://www.experian.co.uk/assets/marketing-

services/brochures/mosaic-ps-brochure.pdf

To **sort** vulnerability proportion from highest to lowest (or vice versa) select 'Value' column in the table below.





- 1 Free text search by postcode function
- 2 Searched Postcode
 LSOA reference ID and
 population count
- View of PSR premise base vs National stats aligned to searched Postcode LSOA**
- 4 Experian 'Vulnerable'
 MOSAIC profiles linked
 to the searched
 Postcode LSOA**
- Other Vulnerable datasets related to the selected Postcode LSOA
- 'Sort' function (high to low / low to high)

SEARCH BY POSTCODE

Search by Substation

Search by substation

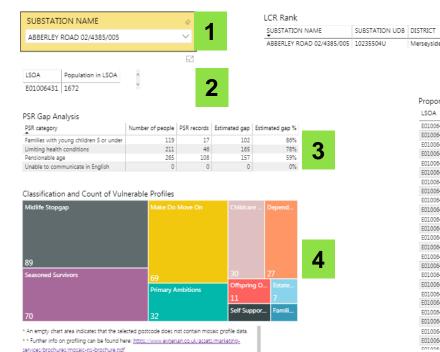
A simple substation search function which will link to a local area (LSOA**) view of vulnerable data sets & a comparison of SPEN PSR vs National Statistics

SEARCH BY SUBSTATION

This page enables the analysis of vulnerable mosaic profiles, PSR gaps, prevalent vulnerabilities and low community resilience ranking based on selected substations.

To view sorted vulnerability values in LSOAs connected to a substation, select 'Value' column in the bottom right table.

Select or enter substation name:



Proportio	n of Vulnerabilities in LSOA		
LSOA	Vulnerability	Value	^
E01006431	Care home residents	0%	
E01006431	Child disability benefits	1%	
E01006431	Children in low income households	4%	
E01006431	Disability benefits	35%	
E01006431	Dwellings rated in SAP bands EFG	6%	
E01006431	Dwellings which are private rented	9%	
E01006431	Ethnic minorities	6%	
E01006431	Fuel poor households (England)	9%	
E01006431	Households with no car	24%	
E01006431	Lone parents	7%	
E01006431	Lone pensioners	8%	
E01006431	Long-term unemployed	7%	
E01006431	Low income employment	29%	
E01006431	Low or no qualifications	40%	
E01006431	Mental health benefits	7%	
E01006431	Number of care homes	0%	
E01006431	over 65 years	17%	
E01006431	over 75 years	9%	
E01006431	over 85 years	2%	
E01006431	People in bad or very bad health	10%	
E01006431	People providing over 20 hrs per week of care	6%	
E01006431	People who cannot speak English well or at all	1%	
E01006431	People whose activities limited a lot	14%	
E01006431	Under 16 years	18%	٧
C01006421	Hadar E vase	00/	

Number of addresses LCR Rank

392 572.00



- Free text search on Substation name function
- Searched Substation LSOA reference ID and population count
- View of PSR premise base vs National stats aligned to searched Substation LSOA**
- 4 Experian 'Vulnerable'
 MOSAIC profiles linked to
 the searched Substation
 LSOA**
- Substation information including linked premise count & LCR* ranking out of SPEN's licence areas
- Other Vulnerable datasets related to the selected Substation LSOA
- 'Sort' function (high to low / low to high)

SEARCH BY SUBSTATION