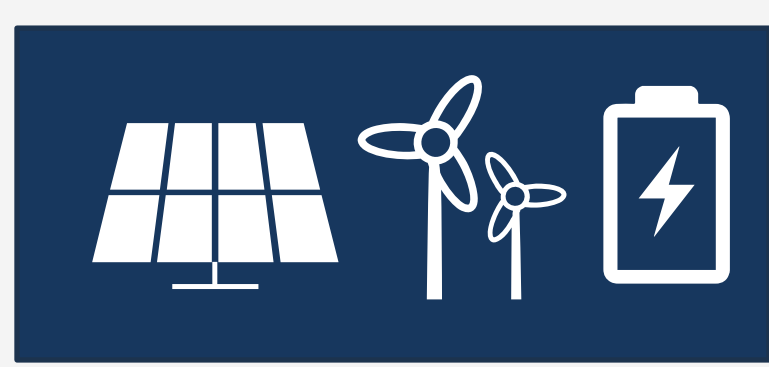


# Distribution Network Options Assessment (DNOA) Report

November 2024



Stakeholder personas - focus on:

**Distributed Generation Operators**  
**Battery Storage Operators**

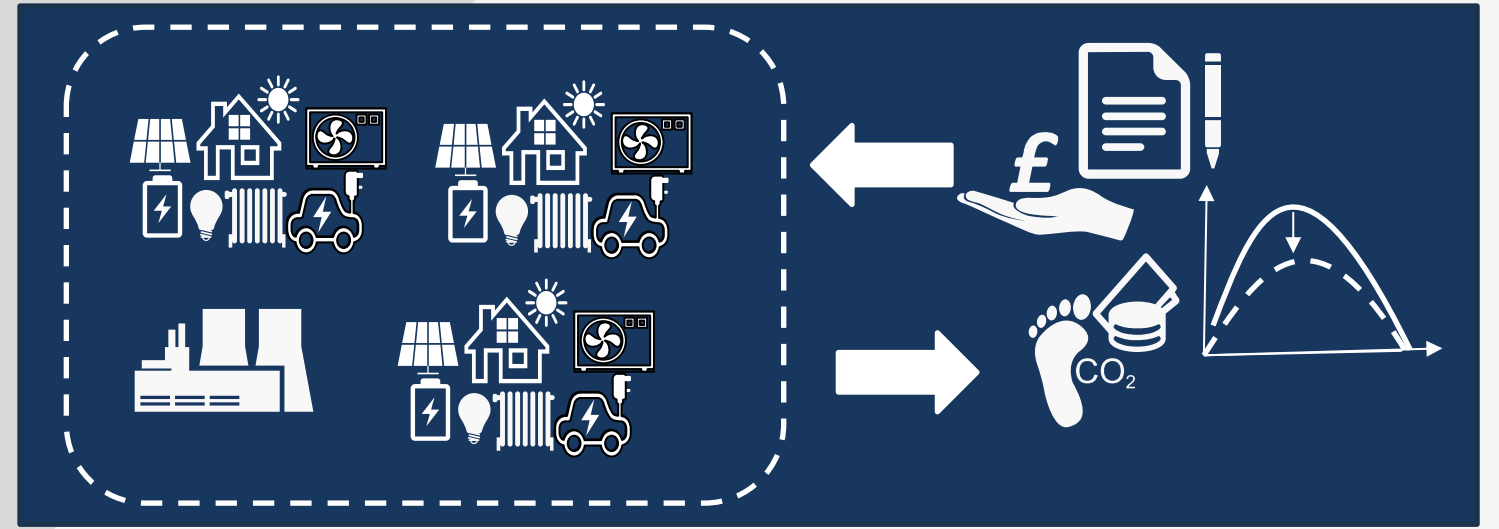
What DSO support do these stakeholders want?

**Support in their planning and operations making informed decisions about energy market opportunities and connection of their assets to the distribution network.**

How can these stakeholder personas use our DNOA?

Flexibility services	Reinforcement
<ul style="list-style-type: none"> <li>• Understand current and future needs of DSO flexibility services across the region.</li> <li>• Identify opportunities for additional revenues from their participation to flexibility markets.</li> </ul>	<ul style="list-style-type: none"> <li>• Combine DNOA decisions with the Network Development Plan to understand when and where capacity will be released to facilitate new connections.</li> <li>• Identify strategic/optimal locations for new connections.</li> </ul>

**Additional information:**  
<https://www.enwl.co.uk/dfes>  
<https://www.enwl.co.uk/ndp>  
<https://www.enwl.co.uk/future-energy/flexibility-hub/latest-requirement/>



Stakeholder personas - focus on:

## Flexibility Aggregators Domestic and I&C Customers

What DSO support do these stakeholders want?

**Inform investment and operational decisions while fostering customer-oriented initiatives on flexibility services.**

How can these stakeholder personas use DNOA?

Flexibility services	Reinforcement
<ul style="list-style-type: none"> <li>Identify opportunities for revenues from their participation in DSO flexibility markets, informed by forthcoming uptakes of LCTs.</li> <li>Increase confidence in DSO flexibility services through increased transparency by combining DNOA with other DSO publications (incl. flexibility services tenders, DFES, NDP).</li> <li>Make well-informed decisions on integrating domestic and non-domestic customers in flexibility asset portfolios.</li> </ul>	<ul style="list-style-type: none"> <li>Understand planned reinforcement to prevent network limitations from fully exploiting resources/assets capabilities.</li> <li>Understand the extent of energy bill savings through the deployment of flexibility services to defer more expensive network reinforcement.</li> <li>Understand DSO plans to release capacity that facilitates local LCT uptakes that in turn will unlock additional local flexibility service capabilities.</li> </ul>

**Additional information:**  
<https://www.enwl.co.uk/dfes>  
<https://www.enwl.co.uk/ndp>  
<https://www.enwl.co.uk/future-energy/flexibility-hub/latest-requirement/>  
<https://www.enwl.co.uk/about-us/regulatory-information/our-business-plan-2023-2028/businessplan2023-2028/>



Stakeholder personas - focus on:

## Local Authorities

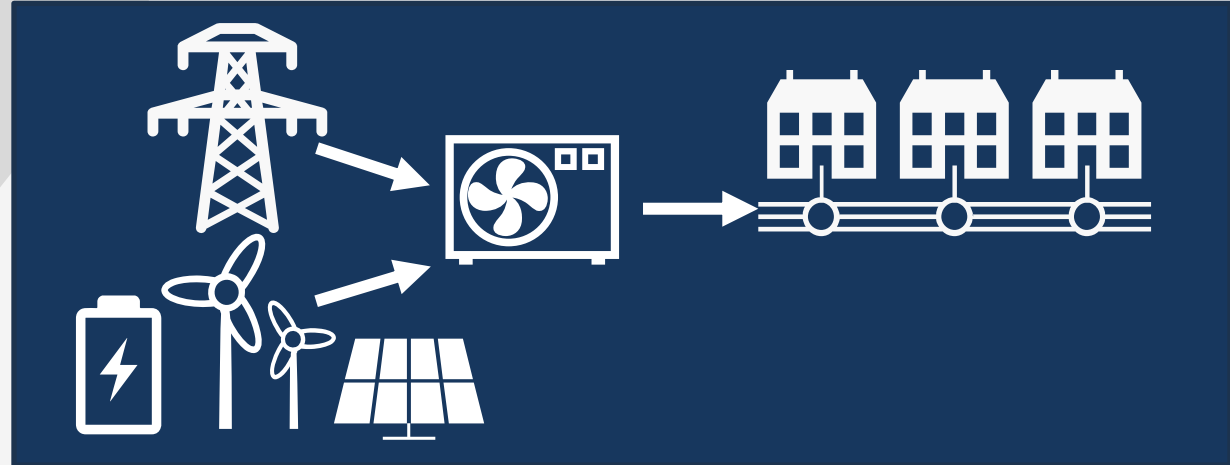
What DSO support do these stakeholders want?

**Promote and support targeted sustainable developments and initiatives in local plans.**

How can these stakeholder personas use DNOA?

Flexibility services	Reinforcement
<ul style="list-style-type: none"> <li>• Inform Local Area Energy Planning (LAEP) and whole-energy system thinking with inputs to whole-system cost assessments.</li> <li>• Understand social value from DSO planning through cost-efficient release of network capacity to facilitate local government plans.</li> <li>• Identify opportunities for energy saving programmes and revenues from flexibility services.</li> </ul>	<ul style="list-style-type: none"> <li>• Combine DNOA decisions with the Network Development Plan to understand when and where capacity will be released to facilitate local government plans for economic growth and decarbonisation.</li> <li>• Combine DNOA decisions with NDP and DNO business plans to understand the timeline, cost savings and benefits for local customers from local network investments.</li> </ul>

Additional information:  
<https://www.enwl.co.uk/dfes>  
<https://www.enwl.co.uk/ndp>  
<https://www.enwl.co.uk/future-energy/flexibility-hub/latest-requirement/>



Stakeholder personas - focus on:

## Network Operators / iDNOs

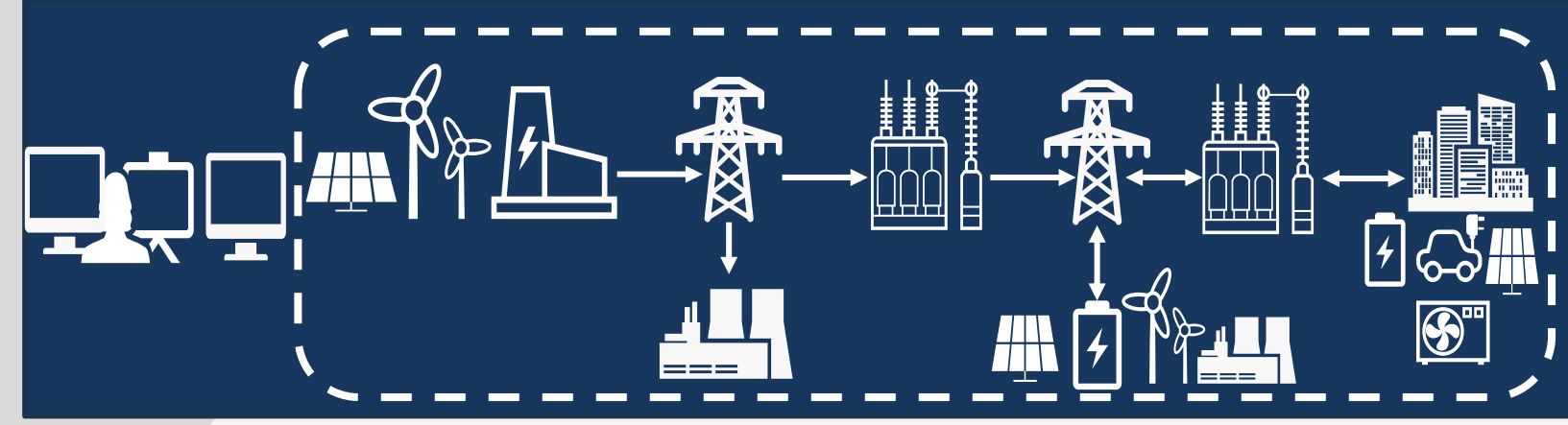
What DSO support do these stakeholders want?

**Support investment and operations to exploit cross-vector synergies and enhance whole-system thinking.**

How can these stakeholder personas use DNOA?

Flexibility services	Reinforcement
<ul style="list-style-type: none"> <li>Identify opportunities for synergies across energy vectors and implement innovative technology solutions to improve network efficiency and sustainability.</li> <li>Enhance data exchanges on flexibility services between network companies resulting in improved whole-system planning.</li> </ul>	<ul style="list-style-type: none"> <li>Understand network constraints and planned reinforcement to better inform their plans.</li> <li>Enhance data exchanges on network reinforcement between network companies resulting in improved whole-system planning.</li> </ul>

**Additional information:**  
<https://www.enwl.co.uk/dfes>  
<https://www.enwl.co.uk/ndp>  
<https://www.enwl.co.uk/future-energy/flexibility-hub/latest-requirement/>  
<https://www.enwl.co.uk/about-us/regulatory-information/our-business-plan-2023-2028/businessplan2023-2028/>



Stakeholder personas - focus on:  
**National Energy System Operator (NESO)**

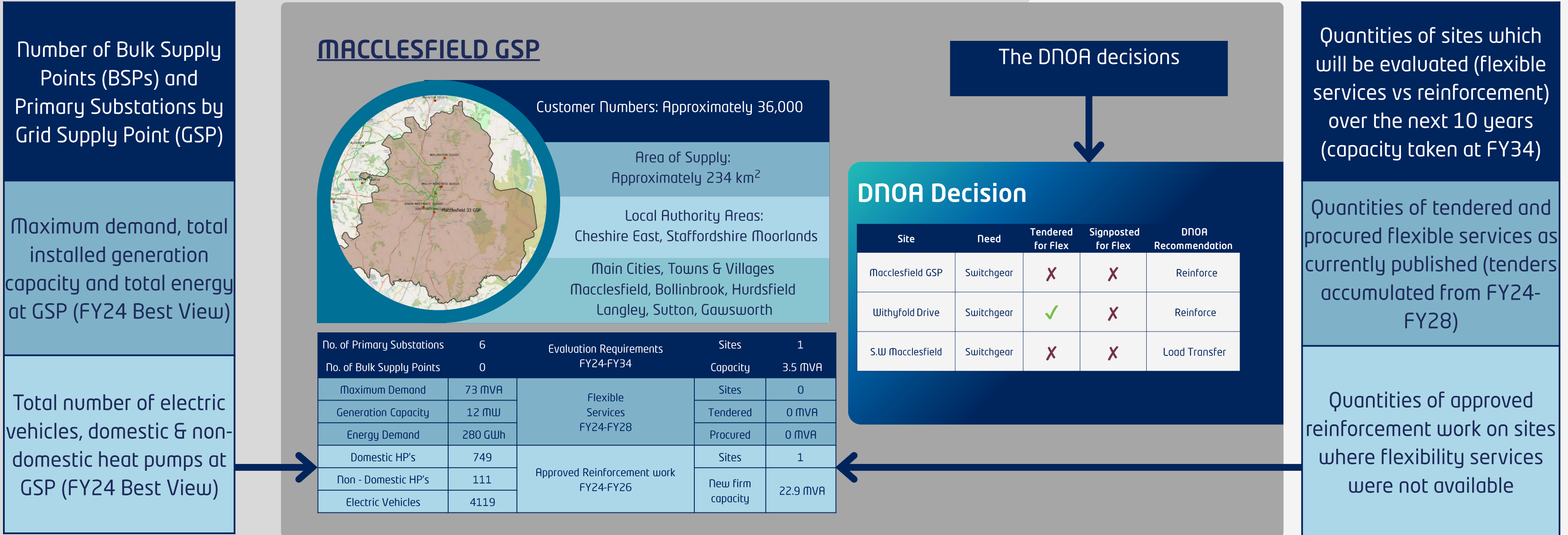
What DSO support do these stakeholders want?

**Inform whole-system planning coordination with a holistic and transparent view of the granular DSO planning and decision-making.**

**How can these stakeholder personas use DNOA?**

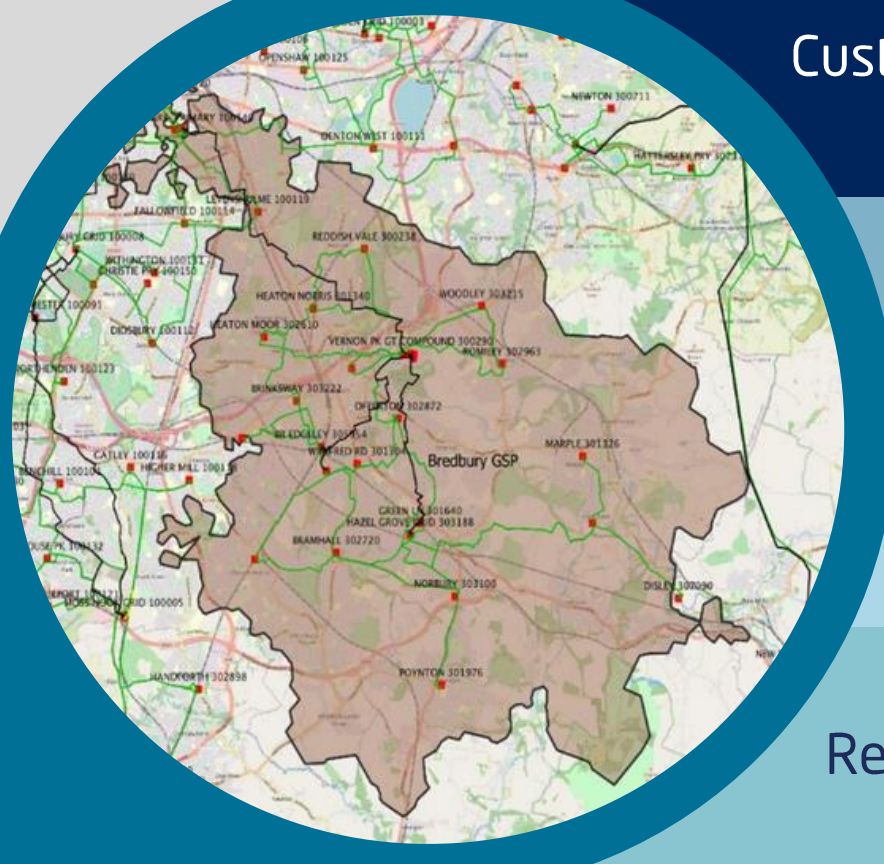
Flexibility services	Reinforcement
<ul style="list-style-type: none"> <li>• Understand current and future DSO flexibility service requirements at sub-regional and granular level.</li> <li>• Enhance transparency in use of flexibility services in network planning and network investment.</li> <li>• Inform NESO and RESP pathways with inputs to whole-system cost assessments (combined with information from DSO flexibility tenders).</li> </ul>	<ul style="list-style-type: none"> <li>• Combine DNOA decisions with the DFES and Network Development Plan to understand when and where capacity will be released and the associated local drivers to inform RESP whole-system pathways.</li> <li>• Combine DNOA decisions with NDP and DNO business plans to understand the timeline and cost savings and benefits for local customers from local network investments.</li> </ul>

# Report Structure



A common template for the reporting of data at each GSP substation has been developed. The boxes on the left provide an overview of the substations served from the GSP along with technical insights into the existing demand, generation and LCT uptake. The boxes on the right provide an overview of future evaluation requirements, quantities of flexible services tendered and procured. The DNOA decisions are based on the 2024 Network Development Plan (online available at: [www.enwl.co.uk/ndp](http://www.enwl.co.uk/ndp)).

# BREDBURY GSP



Customer Numbers: Approximately 178,000

Area of Supply: Approximately 140 km<sup>2</sup>

Local Authority Areas: Manchester, Stockport, Cheshire East

Main Cities, Towns & Villages: Reddish, Stockport, Marple, Bramhall, Hazel Grove, Poynton, Romiley

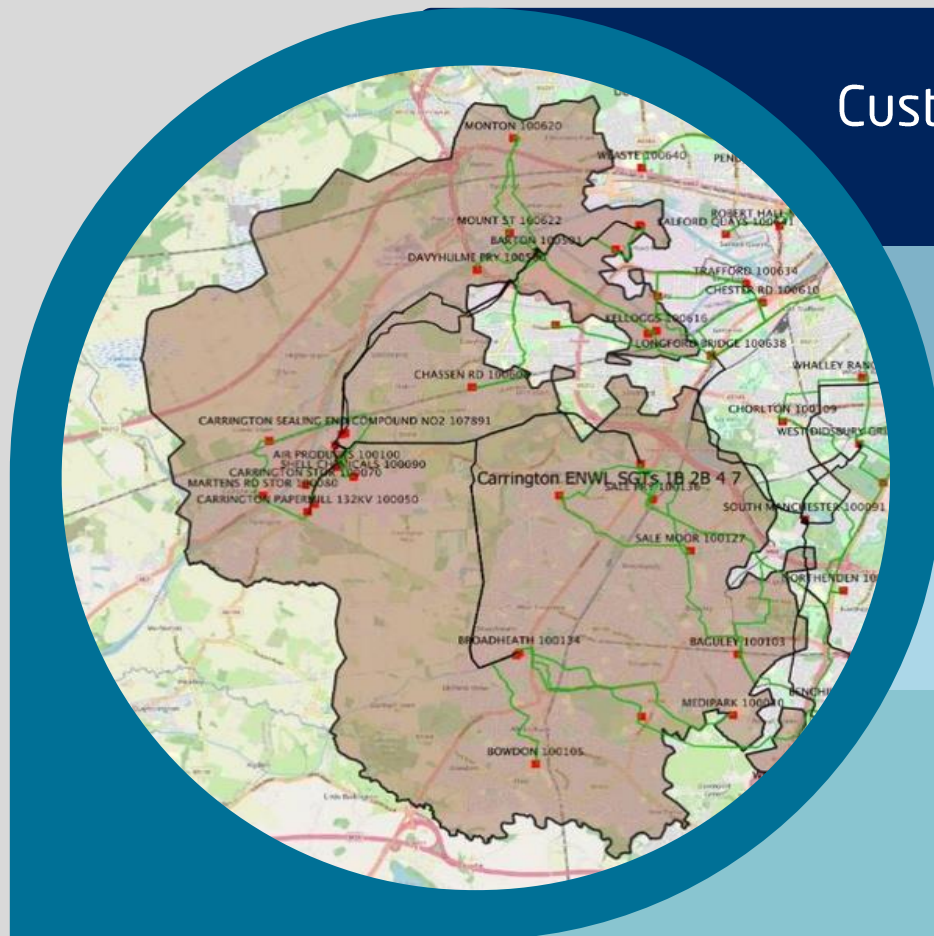
No. of Primary Substations	23	Evaluation Requirements FY24-FY34	Sites	6
No. of Bulk Supply Points	4		Capacity	56 MVA
Maximum Demand	256 MVA	Flexible Services FY24-FY28	Sites	4
Generation Capacity	41 MW		Tendered	151.2 MVA
Energy Demand	1456 GWh		Procured	0 (0.1 MVA contract pending)
Domestic HP's	2979	Approved Reinforcement work FY24-FY26	Sites	0
Non - Domestic HP's	421		New firm capacity	0 MVA
Electric Vehicles	12959			

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Southern Gateway (New Primary)	Transformer	X	X	Reinforce
Moss Side	Transformer	✓	X	Flexibility
Levenshulme	Transformer	X	X	Reinforce
Heaton Moor	Transformer	X	✓	Load Transfer
Heaton Norris	Transformer	X	✓	Flexibility
Longsight	Transformer	X	✓	Load Transfer
Marple	Transformer	✓	X	Flexibility
Romiley	Transformer	X	✓	Flexibility
Longsight BSP	Transformer	X	✓	Load Transfer
Vernon Park BSP	Switchgear	X	X	Reinforce



# CARRINGTON GSP



Customer Numbers: Approximately 110,000

Area of Supply:  
Approximately 112 km

Local Authority Areas:  
Manchester, Trafford, Cheshire East,  
Salford

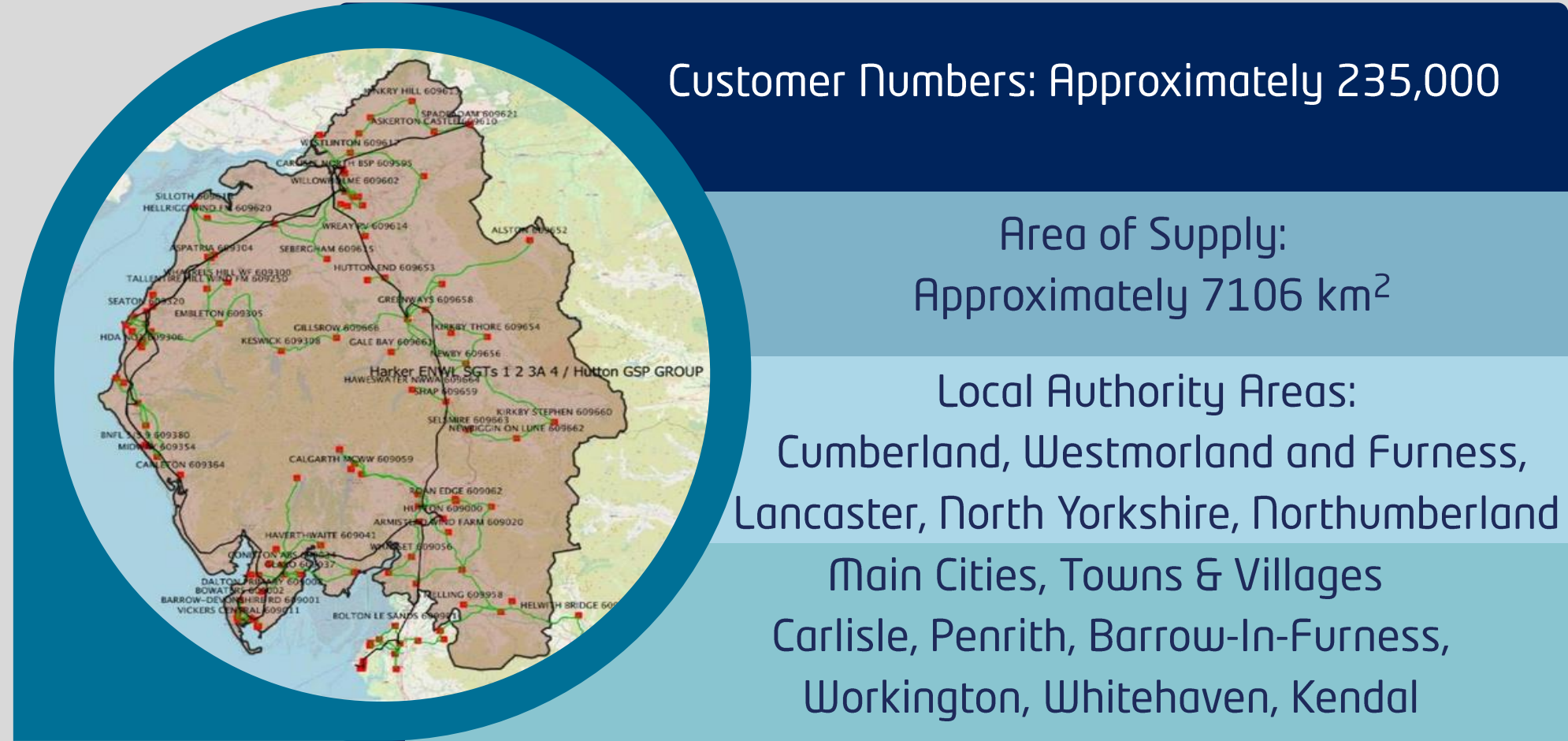
Main Cities, Towns & Villages  
Urmston, Stretford, Trafford,  
Sale, Altrincham

No. of Primary Substations	17	Evaluation Requirements FY24-FY34	Sites	4
No. of Bulk Supply Points	4		Capacity	6.5 MVA
Maximum Demand	235 MVA	Flexible Services FY24-FY28	Sites	1
Generation Capacity	92 MW		Tendered	0 MVA
Energy Demand	1063 GWh		Procured	0 MVA
Domestic HP's	2302	Approved Reinforcement work FY24-FY26	Sites	1
Non - Domestic HP's	308		New firm capacity	18 MVA
Electric Vehicles	10251			

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Chassen Road	Circuit	X	X	Load transfer
Trafford Park North	Transformer	X	X	Reinforce

# HARKER / HUTTON GSP GROUP (1/2)



No. of Primary Substations	93	Evaluation Requirements FY24-FY34	Sites	18
No. of Bulk Supply Points	10		Capacity	124 MVA
Maximum Demand	577 MVA	Flexible Services FY24-FY28	Sites	12
Generation Capacity	473 MW		Tendered	341.8 MVA
Energy Demand	2872 GWh		Procured	0 (0.1 contract pending) MVA
Domestic HP's	6514	Approved Reinforcement work FY24-FY26	Sites	4
Non - Domestic HP's	994		New firm capacity	46 MVA
Electric Vehicles	21501			

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Coniston	Interconnection	✓	✗	Flexibility
Alston	Interconnection	✓	✗	Flexibility
Morton Park & Pirelli	Transformer	✗	✓	Flexibility
Easton	Interconnection	✓	✗	Flexibility
Egremont	Transformer	✗	✓	Flexibility
James St	Interconnection	✗	✓	Flexibility
Kendal	Transformer	✓	✗	Flexibility
Newby	Transformer	✓	✗	Flexibility
Sebergham	Interconnection	✓	✗	Flexibility
Whasset	Transformer	✗	✓	Flexibility
Wigton	Switchgear	✓	✗	Flexibility
Askam & Dalton	Circuits	✗	✓	Flexibility
Embleton	Switchgear	✗	✓	Flexibility

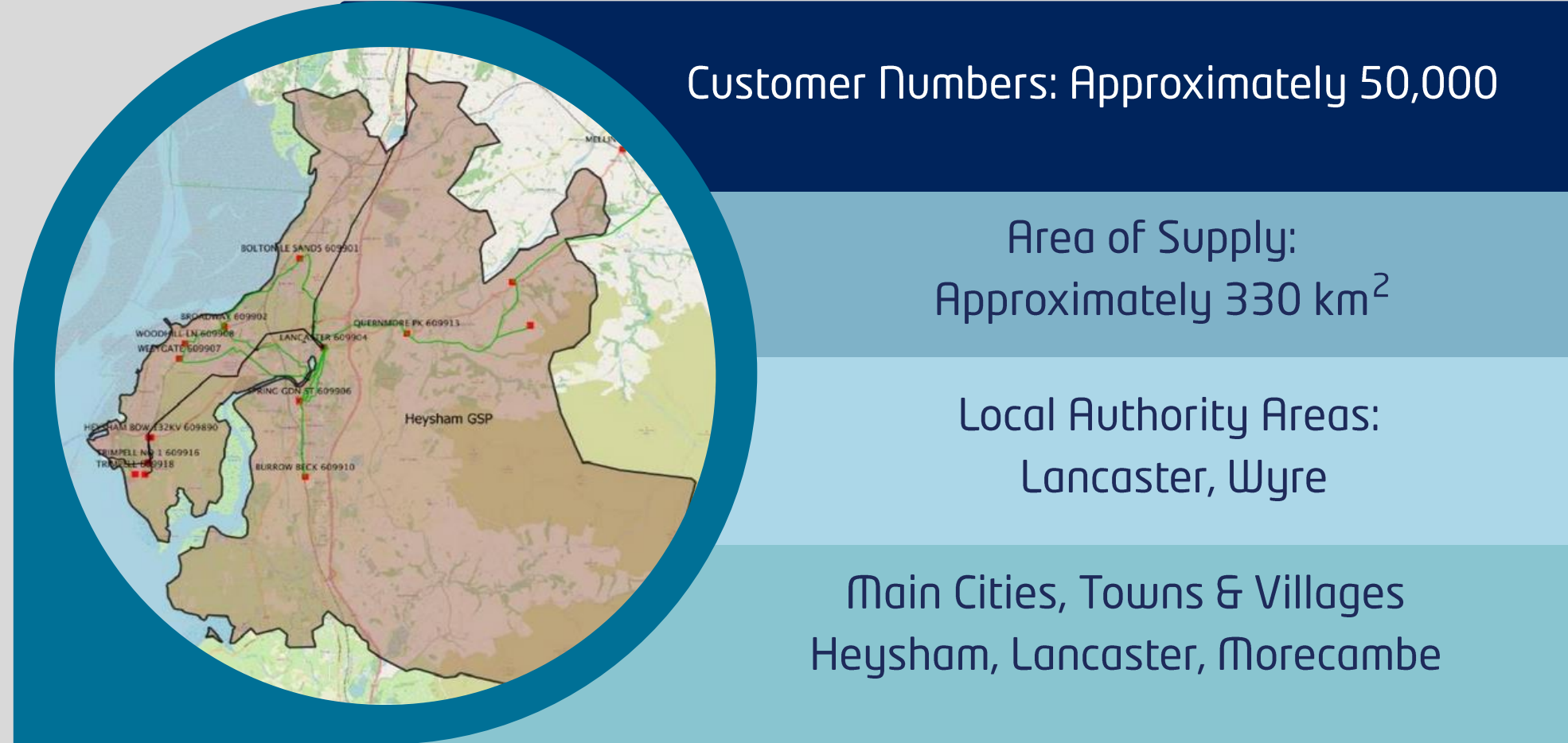
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# HARKER / HUTTON GSP GROUP (2/2)

## DNOA Decision ...Continued

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Gillsrow	Interconnection	✓	✗	Flexibility
Newbiggin on Lune	Interconnection	✓	✗	Flexibility
Yealand	Interconnection	✓	✗	Flexibility
Carlisle BSP	Transformer	✗	✗	Reinforce
Kendal BSP	Transformer	✗	✗	Reinforce
HDA 1 & 2	Switchgear	✗	✗	Reinforce
Leyland National	Switchgear	✗	✗	Reinforce
Bowaters	Switchgear	✗	✗	Reinforce
Stainbure & Siddick BSP	Transformer	✗	✗	Reinforce

# HEYSHAM GSP

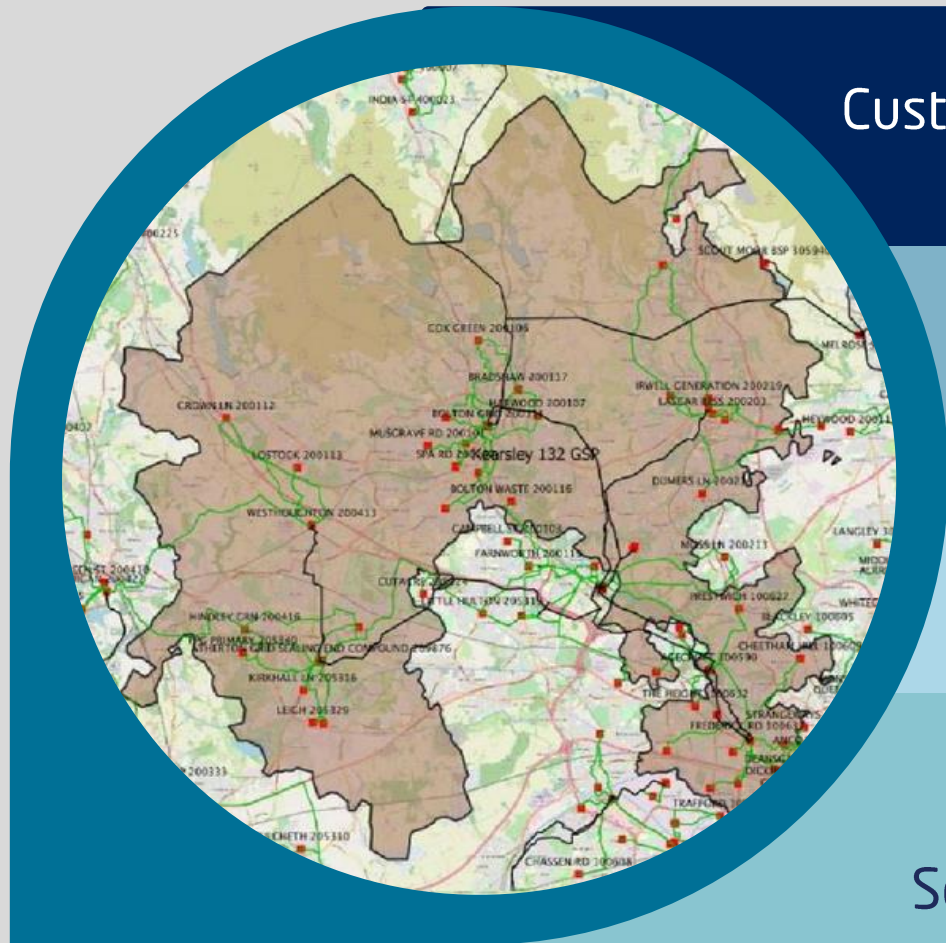


No. of Primary Substations	9	Evaluation Requirements FY24-FY34	Sites	5
No. of Bulk Supply Points	2		Capacity	35.3 MVA
Maximum Demand	110 MVA	Flexible Services FY24-FY28	Sites	1
Generation Capacity	68 MW		Tendered	20.7 MVA
Energy Demand	569 GWh		Procured	0 (0.1 contract pending) MVA
Domestic HP's	1297	Approved Reinforcement work FY24-FY26	Sites	0
Non - Domestic HP's	192		New firm capacity	0 MVA
Electric Vehicles	4611			

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Cloughton	Interconnection	✓	✗	Flexibility
Lancaster	Switchgear	✓	✗	Reinforce
Woodhill Lane	Interconnection	✓	✗	Flexibility
Lancaster BSP	Transformer	✗	✓	Flexibility

# KEARSLEY GSP (1/2)



Customer Numbers: Approximately 322,000

Area of Supply:  
Approximately 398 km<sup>2</sup>

Local Authority Areas:  
Bolton, Wigan, Salford, Bury,  
Rochdale, Chorley

Main Cities, Towns & Villages  
Leigh, Bolton, Bury,  
Salford, Horwich, Atherton, Westhoughton

No. of Primary Substations	37	Evaluation Requirements FY24-FY34	Sites	17
No. of Bulk Supply Points	7		Capacity	153.2 MVA
Maximum Demand	510 MVA	Flexible Services FY24-FY28	Sites	1
Generation Capacity	116 MW		Tendered	23.1 MVA
Energy Demand	2754 GWh		Procured	0 (0.1 contract pending) MVA
Domestic HP's	6143	Approved Reinforcement work FY24-FY26	Sites	2
Non - Domestic HP's	809		New firm capacity	147 MVA
Electric Vehicles	22914			

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Frederick Road BSP	Transformer	✓	✗	Flexibility
Trinity	Switchgear	✗	✗	Reinforce
Bolton BSP	Switchgear	✗	✗	Reinforce
Bury BSP	Switchgear	✗	✗	Reinforce
Atherton Town Centre	Circuit	✗	✗	Reinforce
Barbara St	Circuit	✗	✗	Reinforce
Cheetham Hill	Switchgear	✓	✗	Reinforce
Bedford	Transformer	✗	✗	Load Transfer
Chamberhall	Circuit	✗	✗	Reinforce
Crown Lane	Switchgear	✓	✗	Load Transfer

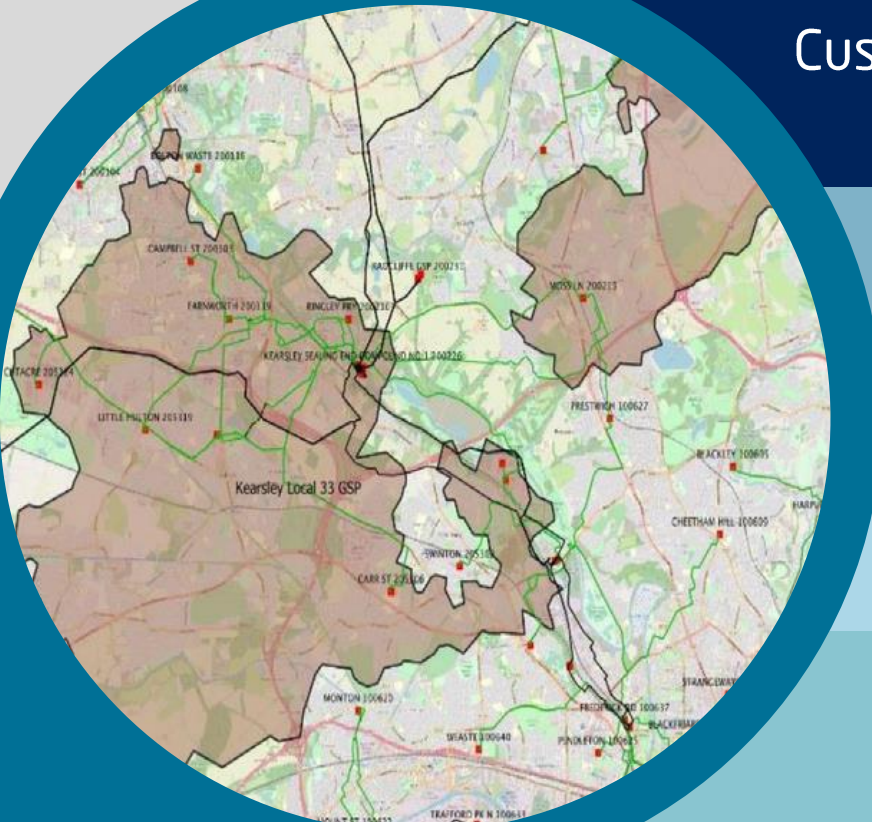
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## DNOA Decision

...Continued

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Frederick Road	Transformer	✓	✗	Flexibility
Harwood	Interconnection	✗	✓	Flexibility
Robert Hall	Transformer	✗	✗	Load Transfer
Westhoughton	Switchgear	✗	✗	Reinforce
Radcliffe BSP	Transformer	✗	✓	Load Transfer
Atherton BSP	Transformer	✗	✗	Reinforce
Westhoughton BSP	Transformer	✗	✗	Reinforce

# KEARSLEY LOCAL GSP



Customer Numbers: Approximately 50,000

Area of Supply: Approximately 75 km<sup>2</sup>

Local Authority Areas: Bolton, Salford, Wigan, Rochdale

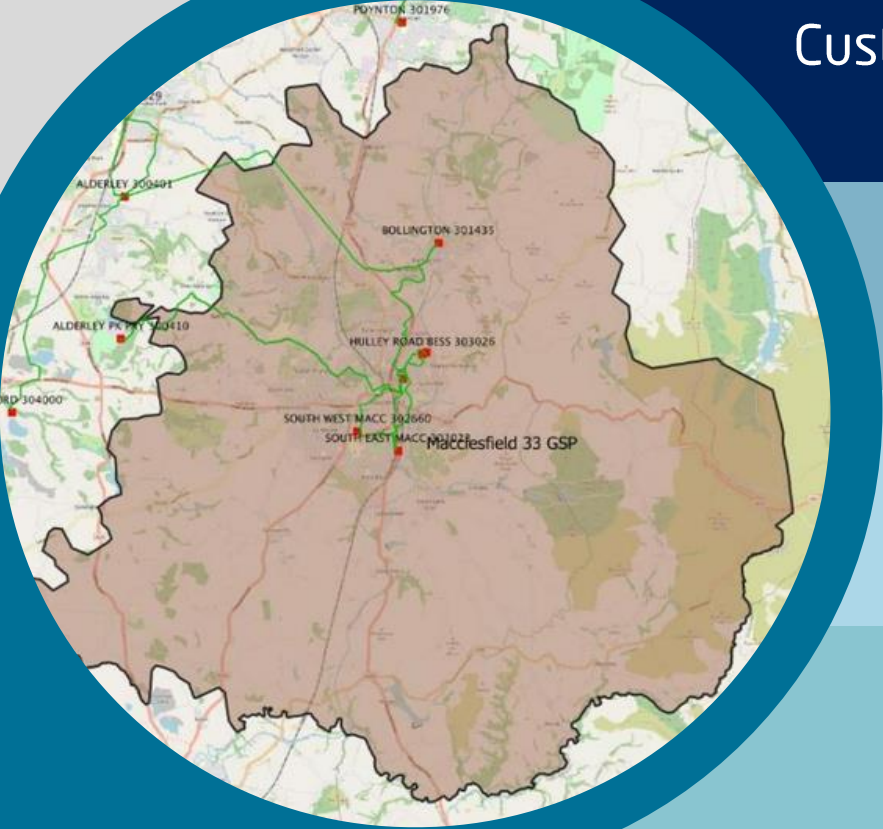
Main Cities, Towns & Villages Farnworth, Kearsley, Walkden, Worsley, Little Hulton

No. of Primary Substations	11	Evaluation Requirements FY24-FY34	Sites	3
No. of Bulk Supply Points	0		Capacity	11.2 MVA
Maximum Demand	106 MVA	Flexible Services FY24-FY28	Sites	1
Generation Capacity	25 MW		Tendered	3.9 MVA
Energy Demand	628 GWh		Procured	0 (1.1 contract pending) MVA
Domestic HP's	1515	Approved Reinforcement work FY24-FY26	Sites	1
Non - Domestic HP's	165		New firm capacity	22.9 MVA
Electric Vehicles	5396			

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Little Hulton	Interconnection	✓	✗	Reinforce
Moss Lane	Switchgear	✓	✗	Flexibility
Hill Top T11 & T12	Switchgear	✗	✗	Load Transfer

# MACCLESFIELD GSP



Customer Numbers: Approximately 36,000

Area of Supply: Approximately 234 km<sup>2</sup>

Local Authority Areas: Cheshire East, Staffordshire Moorlands

Main Cities, Towns & Villages  
Macclesfield, Bollinbrook, Hurdsfield  
Langley, Sutton, Gawsforth


No. of Primary Substations	6	Evaluation Requirements FY24-FY34	Sites	1
No. of Bulk Supply Points	0		Capacity	3.5 MVA
Maximum Demand	73 MVA	Flexible Services FY24-FY28	Sites	0
Generation Capacity	12 MW		Tendered	0 MVA
Energy Demand	280 GWh		Procured	0 MVA
Domestic HP's	749	Approved Reinforcement work FY24-FY26	Sites	1
Non - Domestic HP's	111		New firm capacity	22.9 MVA
Electric Vehicles	4119			

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Macclesfield BSP	Switchgear	✗	✗	Reinforce
Withyfold Drive	Switchgear	✓	✗	Reinforce
S.W Macclesfield	Switchgear	✗	✗	Load Transfer



# PADIHAM GSP



Customer Numbers: Approximately 130,000

Area of Supply: Approximately 630 km<sup>2</sup>

Local Authority Areas: Hyndburn, Ribble Valley, Burnley, Rossendale, Pendle, North Yorkshire

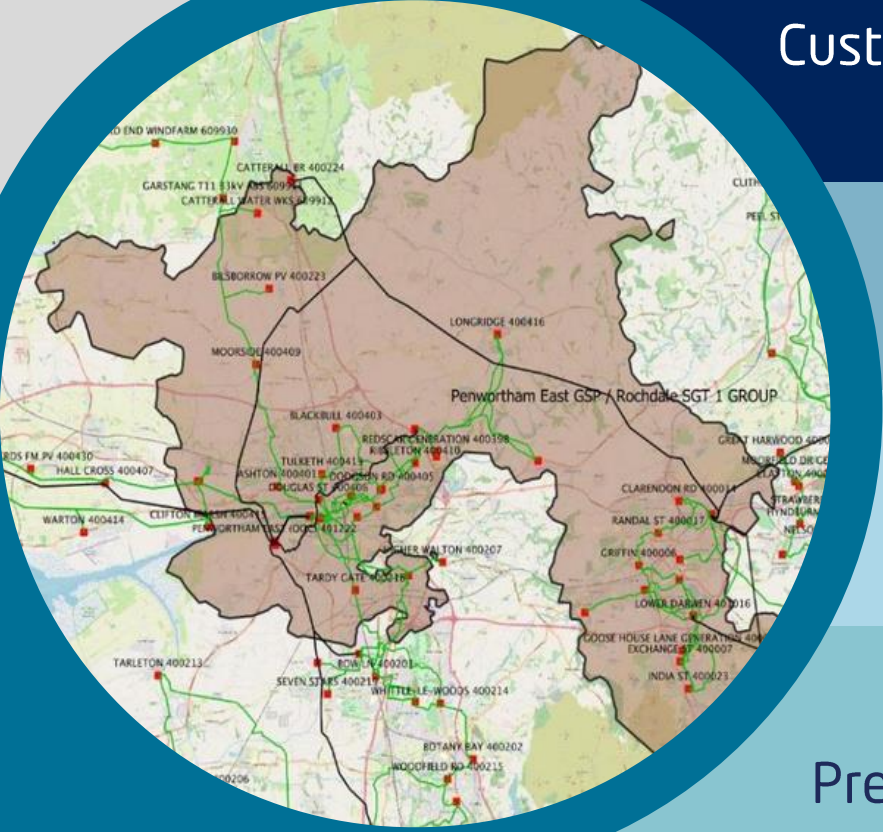
Main Cities, Towns & Villages Nelson, Settle, Clitheroe, Haslingden, Bolton By Bowland, Huncoat

No. of Primary Substations	28	Evaluation Requirements FY24-FY34	Sites	8
No. of Bulk Supply Points	4		Capacity	14.9 MVA
Maximum Demand	216 MVA	Flexible Services FY24-FY28	Sites	5
Generation Capacity	93 MW		Tendered	116.4 MVA
Energy Demand	1322 GWh		Procured	0 (1.3 contract pending) MVA
Domestic HP's	2083	Approved Reinforcement work FY24-FY26	Sites	1
Non - Domestic HP's	428		New firm capacity	0 MVA
Electric Vehicles	10942			

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Bolton by Bowland	Interconnections	✓	✗	Flexibility
Settle	Interconnections	✓	✗	Flexibility
Flat Lane	Interconnections	✓	✗	Flexibility
Peel St	Interconnections	✓	✗	Flexibility
Church	Interconnections	✓	✗	Flexibility
Ribblesdale T13 & T14	Transformer	✗	✓	Flexibility
Spring Cottage	Switchgear	✗	✗	Reinforce
Great Harwood	Switchgear	✗	✗	Reinforce
Nelson BSP	Switchgear	✗	✗	Reinforce

# PENWORTHAM EAST GSP ROCHDALE SGT 1



Customer Numbers: Approximately 167,000

Area of Supply: Approximately 493 km<sup>2</sup>

Local Authority Areas: Hyndburn, Preston, Wyre, Blackburn with Darwen, Ribble Valley

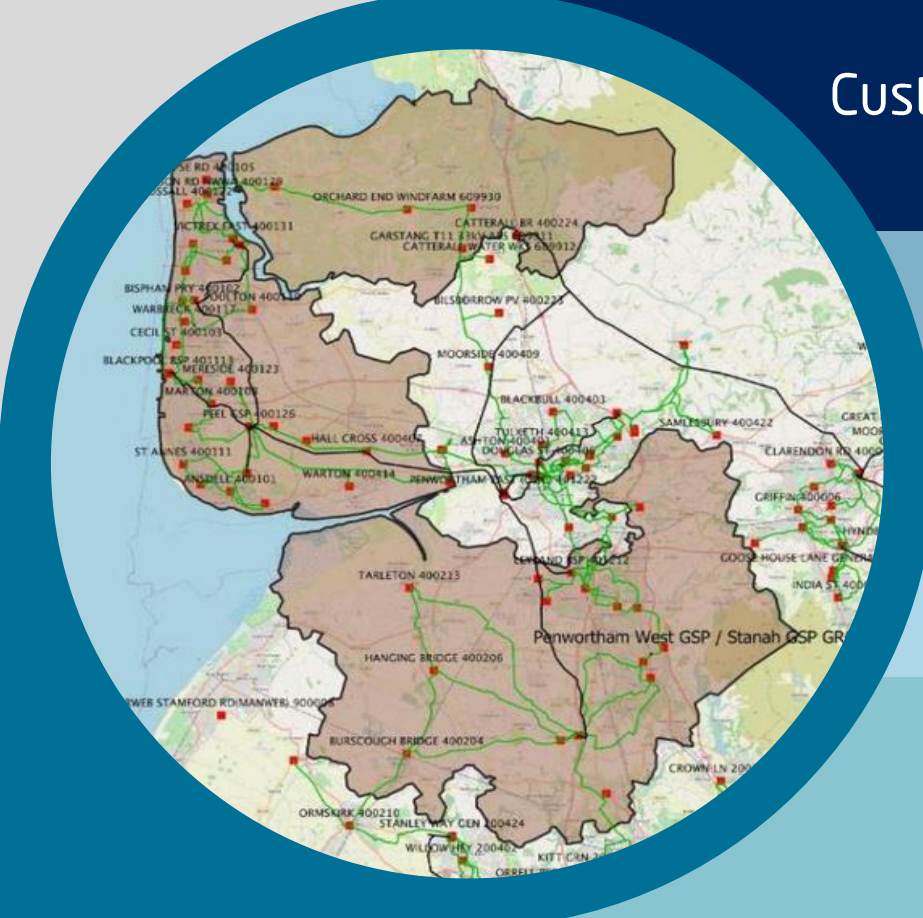
Main Cities, Towns & Villages: Preston, Blackburn, Darwen, Bamber Bridge

No. of Primary Substations	31	Evaluation Requirements FY24-FY34	Sites	6
No. of Bulk Supply Points	4		Capacity	40.3 MVA
Maximum Demand	303 MVA	Flexible Services FY24-FY28	Sites	1
Generation Capacity	153 MW		Tendered	40.8 MVA
Energy Demand	1663 GWh		Procured	0 (0.1 contract pending) MVA
Domestic HP's	3100	Approved Reinforcement work FY24-FY26	Sites	0
Non - Domestic HP's	500		New firm capacity	0 MVA
Electric Vehicles	13384			

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Catterall Waterworks	Interconnections	✓	✗	Flexibility
Lower Darwen BSP	Switchgear	✓	✗	Reinforce
Craggs Row & Bushell St	Transformer	✗	✗	Load Transfer
Moorside	Transformer	✓	✗	Reinforce
Preston East BSP	Switchgear	✓	✗	Flexibility

# PENWORTHAM WEST GSP - STANAH GSP GROUP (1/2)



Customer Numbers: Approximately 240,000

Area of Supply: Approximately 844 km<sup>2</sup>

Local Authority Areas: Blackpool, Chorley, South Ribble, Fylde, Wyre, West Lancashire

Main Cities, Towns & Villages Garstang, Fleetwood, Blackpool, Chorley, Leyland, Lytham

No. of Primary Substations	45	Evaluation Requirements FY24-FY34	Sites	14
No. of Bulk Supply Points	7		Capacity	93.8 MVA
Maximum Demand	432 MVA	Flexible Services FY24-FY28	Sites	3
Generation Capacity	207 MW		Tendered	25.6 MVA
Energy Demand	2254 GWh		Procured	0 MVA
Domestic HP's	5483	Approved Reinforcement work FY24-FY26	Sites	1
Non - Domestic HP's	771		New firm capacity	0 MVA
Electric Vehicles	23422			

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Rossall	Interconnections	✓	✗	Flexibility
Bispham BSP	Switchgear	✗	✗	Reinforce
Botany Bay	Interconnections	✓	✗	Reinforce
Chorley South	Transformer	✓	✗	Flexibility
Hall Cross	Switchgear	✗	✗	Load Transfer
Higher Walton	Interconnections	✓	✗	Reinforce
Moss Side & Seven Stars	Circuit	✓	✗	Flexibility
Bow Lane	Switchgear	✗	✗	Load Transfer

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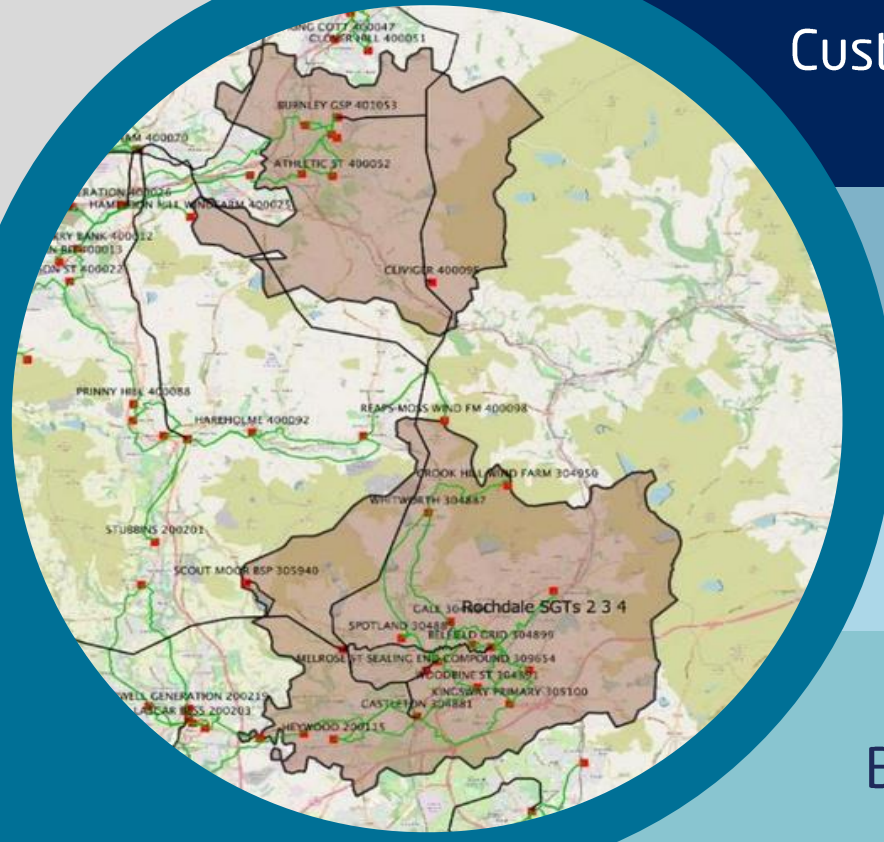
# PENWORTHAM WEST GSP - STANAH GSP GROUP (2/2)

## DNOA Decision

...Continued

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Hanging Bridge	Interconnections	X	X	Reinforce
Tarleton	Transformer	X	X	Reinforce
Blackpool BSP	Switchgear	X	✓	Flexibility
Leyland BSP	Circuit	X	✓	Flexibility
Peel BSP	Transformer	X	✓	Flexibility
Wrightington BSP	Switchgear	X	✓	Flexibility

# ROCHDALE SGTs 2 3 4



Customer Numbers: Approximately 155,000

Area of Supply: Approximately 225 km<sup>2</sup>

Local Authority Areas: Burnley, Pendle, Rochdale, Bury

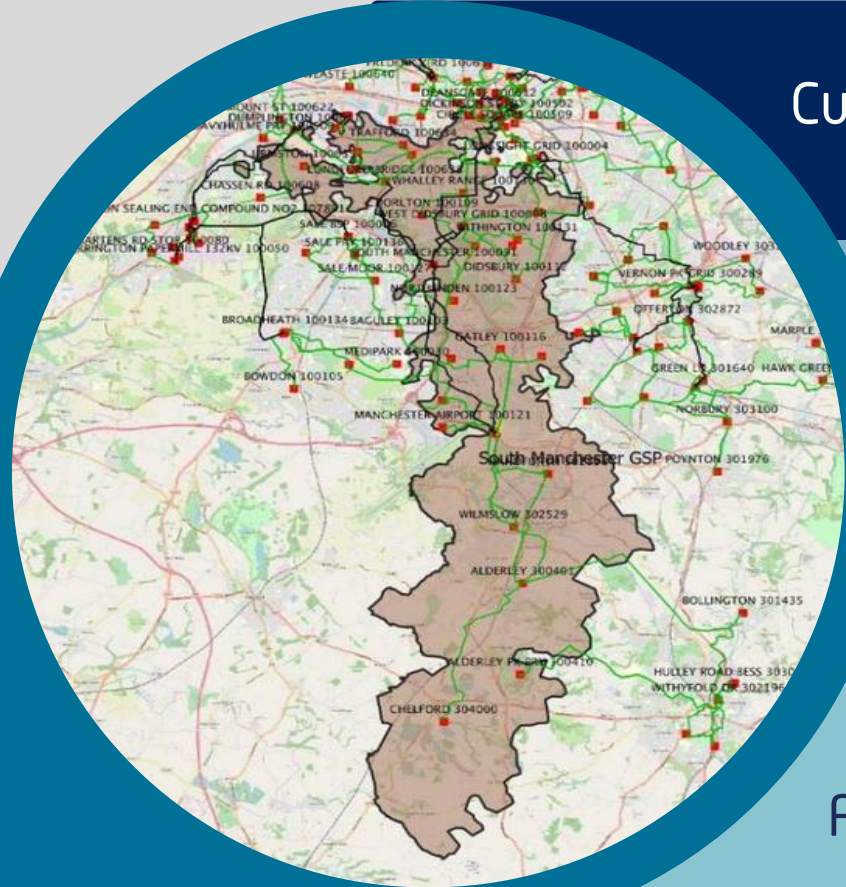
Main Cities, Towns & Villages: Burnley, Whitworth, Rochdale, Heywood, Belfield, Castleton

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Northern Gateway (New Primary Substation)	Transformer	X	X	Reinforce

No. of Primary Substations	17	Evaluation Requirements FY24-FY34	Sites	1
No. of Bulk Supply Points	4		Capacity	3.9 MVA
Maximum Demand	201 MVA	Flexible Services FY24-FY28	Sites	1
Generation Capacity	107 MW		Tendered	84.8 MVA
Energy Demand	931 GWh		Procured	0 MVA
Domestic HP's	1760	Approved Reinforcement work FY24-FY26	Sites	1
Non - Domestic HP's	290		New firm capacity	22.9 MVA
Electric Vehicles	7575			

# SOUTH MANCHESTER GSP



Customer Numbers: Approximately 156,000

Area of Supply:  
Approximately 163 km<sup>2</sup>

Local Authority Areas:  
Cheshire East, Manchester, Trafford,  
Stockport

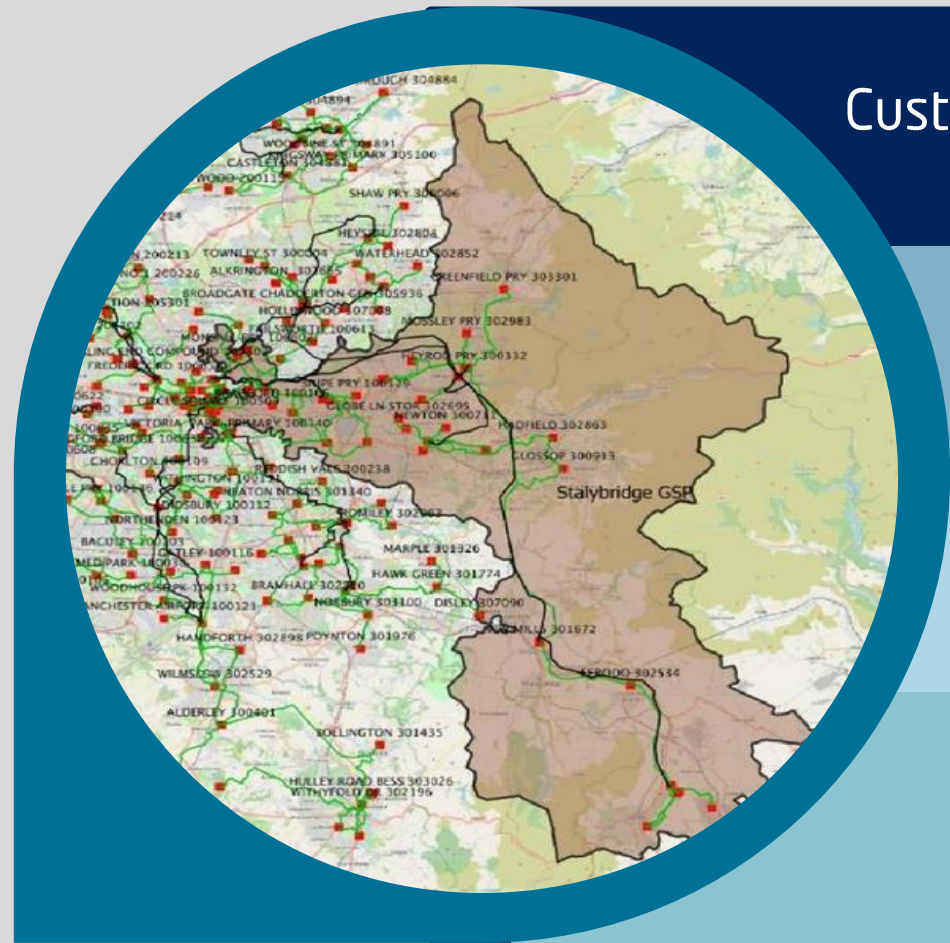
Main Cities, Towns & Villages  
Alderley Edge, Wilmslow, Cheadle, Stretford,  
Didsbury, Trafford

No. of Primary Substations	27	Evaluation Requirements FY24-FY34	Sites	4
No. of Bulk Supply Points	4		Capacity	16.9 MVA
Maximum Demand	309 MVA	Flexible Services FY24-FY28	Sites	0
Generation Capacity	65 MW		Tendered	0 MVA
Energy Demand	1581 GWh		Procured	0 MVA
Domestic HP's	3647	Approved Reinforcement work FY24-FY26	Sites	0
Non - Domestic HP's	461		New firm capacity	0 MVA
Electric Vehicles	11580			

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
West Didsbury BSP	Switchgear	X	X	Reinforce
Moss Nook BSP	Switchgear	X	X	Reinforce
Withington	Transformer	X	X	Load transfer
Whalley Range	Switchgear	X	✓	Load transfer

# STALYBRIDGE GSP



Customer Numbers: Approximately 216,000

Area of Supply:  
Approximately 575 km<sup>2</sup>

Local Authority Areas:  
Manchester, Oldham, Tameside  
High Peak, Stockport, Derbyshire

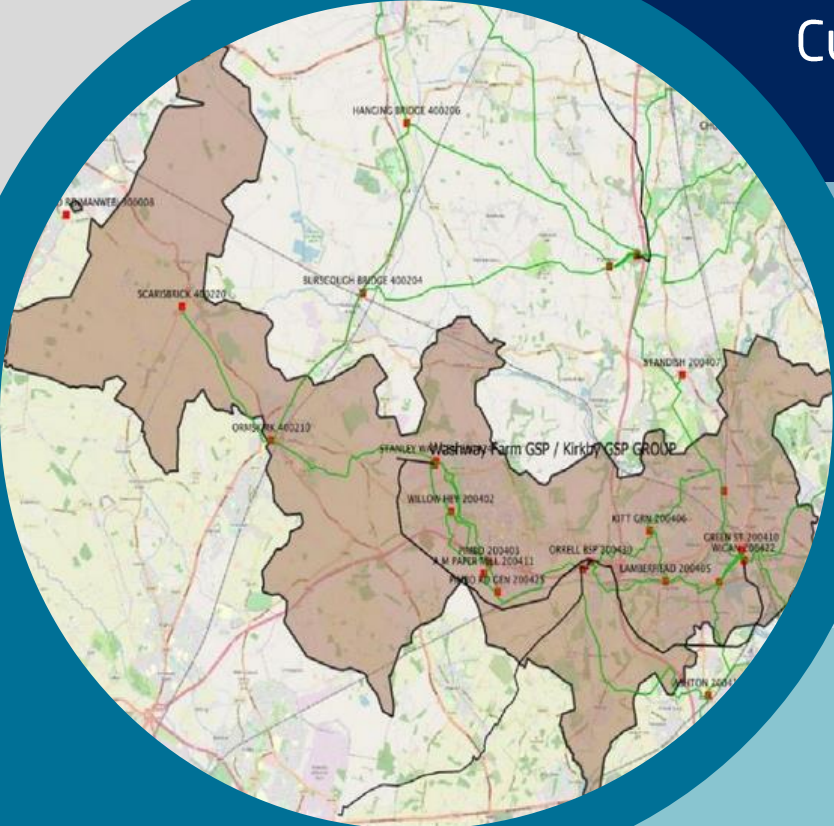
Main Cities, Towns & Villages  
Buxton, Glossop, Hyde, Stalybridge,  
New Mills, Droylsden, Ashton

No. of Primary Substations	28	Evaluation Requirements FY24-FY34	Sites	6
No. of Bulk Supply Points	6		Capacity	44.9 MVA
Maximum Demand	357 MVA	Flexible Services FY24-FY28	Sites	4
Generation Capacity	117 MW		Tendered	169.1MVA
Energy Demand	1901 GWh		Procured	0 (0.1 contract pending) MVA
Domestic HP's	3963	Approved Reinforcement work FY24-FY26	Sites	0
Non - Domestic HP's	546		New firm capacity	0 MVA
Electric Vehicles	15137			

## DN0A Decision

Site	Need	Tendered for Flex	Signposted for Flex	DN0A Recommendation
Mayfield (New Primary)	Transformer	X	X	Reinforce
Ardwick	Transformer	✓	X	Flexibility
Eastlands	Transformer	✓	X	Reinforce
Openshaw	Transformer	✓	X	Load Transfer
Queen Park	Transformer	✓	X	Reinforce
Hattersley	Transformer	✓	X	Flexibility
Bradford	Switchgear	X	X	Reinforce
Droylsden BSP	Switchgear	X	X	Reinforce

# WASHWAY FARM / KIRKBY GSP



Customer Numbers: Approximately 74,000

Area of Supply: Approximately 204 km<sup>2</sup>

Local Authority Areas: Wigan, St Helens, West Lancashire

Main Cities, Towns & Villages Ormskirk, Skelmersdale, Scarisbrick, Orrell, Wigan


No. of Primary Substations	12	Evaluation Requirements FY24-FY34	Sites	6
No. of Bulk Supply Points	3		Capacity	18.3 MVA
Maximum Demand	185 MVA	Flexible Services FY24-FY28	Sites	1
Generation Capacity	98 MW		Tendered	26.2 MVA
Energy Demand	903 GWh		Procured	0 (0.1 contract pending) MVA
Domestic HP's	1854	Approved Reinforcement work FY24-FY26	Sites	0
Non - Domestic HP's	231		New firm capacity	0 MVA
Electric Vehicles	7341			

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Skelmersale	Switchgear	X	X	Reinforce
Skelmersdale BSP	Switchgear	X	X	Reinforce
Wigan BSP	Transformer	✓	X	Flexibility
Green St T11	Transformer	✓	X	Load Transfer
Kitt Green	Transformer	X	✓	Flexibility
Upholland	Transformer	X	✓	Flexibility



# Whitegate GSP



Customer Numbers: Approximately 179,000

Area of Supply: Approximately 103 km<sup>2</sup>

Local Authority Areas: Manchester, Oldham, Tameside Bury, Rochdale, Salford

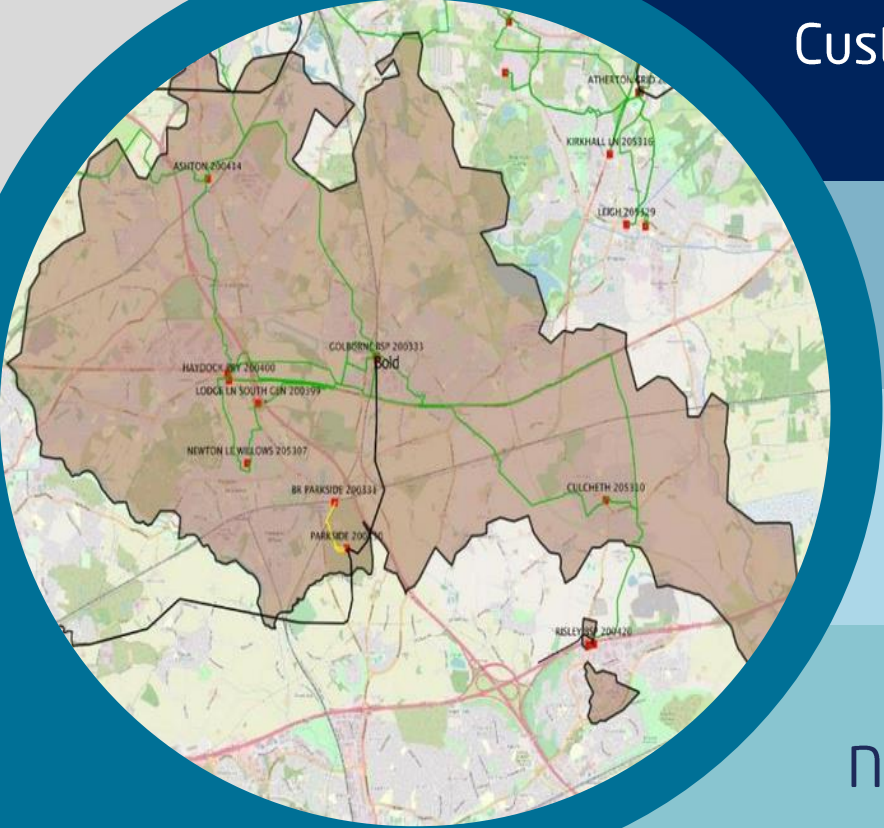
Main Cities, Towns & Villages Royton, Oldham, Shaw, Failsworth Chadderton

No. of Primary Substations	23	Evaluation Requirements FY24-FY34	Sites	6
No. of Bulk Supply Points	4		Capacity	25.9 MVA
Maximum Demand	257 MVA	Flexible Services FY24-FY28	Sites	2
Generation Capacity	70 MW		Tendered	0 MVA
Energy Demand	1277 GWh		Procured	1.4 MVA
Domestic HP's	3113	Approved Reinforcement work FY24-FY26	Sites	0
Non - Domestic HP's	415		New firm capacity	0 MVA
Electric Vehicles	8719			

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Royton BSP	Switchgear	X	X	Reinforce
Greenhill	Switchgear	X	X	Reinforce
Cannon Street	Switchgear	X	X	Reinforce
Ancoats North T11 & T12	Transformer	X	✓	Flexibility
Ancoats North T14	Transformer	X	✓	Flexibility
Blackley	Transformer	X	✓	Flexibility
Chadderton BSP	Transformer	X	✓	Flexibility

# Bold (Golbourne BSP)



Customer Numbers: Approximately 34,000

Area of Supply: Approximately 92 km<sup>2</sup>

Local Authority Areas: St Helens, Wigan, Salford, Warrington

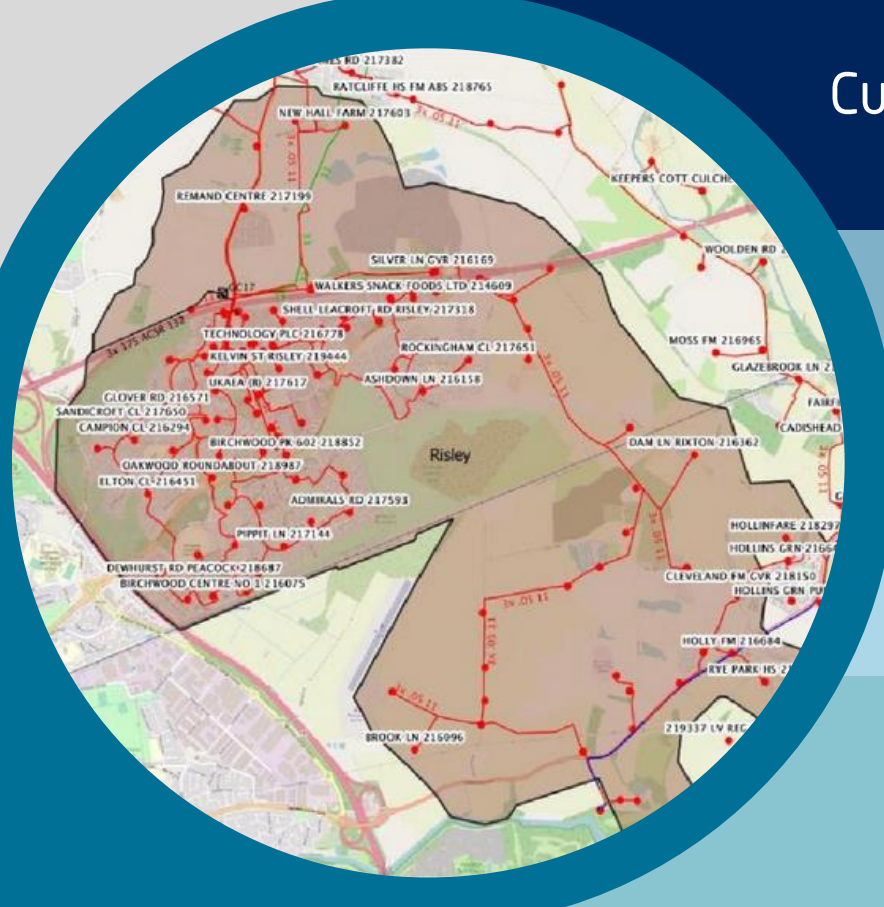
Main Cities, Towns & Villages  
Newton-le-Willows, Culcheth, Golborne, Ashton-In-Makerfield.

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
N/A	N/A	N/A	N/A	N/A

No. of Primary Substations	5	Evaluation Requirements FY24-FY34	Sites	2
No. of Bulk Supply Points	0		Capacity	6.7 MVA
Maximum Demand	83 MVA	Flexible Services FY24-FY28	Sites	0
Generation Capacity	49 MW		Tendered	0 MVA
Energy Demand	395 GWh		Procured	0 MVA
Domestic HP's	799	Approved Reinforcement work FY24-FY26	Sites	0
Non - Domestic HP's	87		New firm capacity	0 MVA
Electric Vehicles	3882			

# RISLEY GSP



Customer Numbers: Approximately 5000

Area of Supply: Approximately 20 km<sup>2</sup>

Local Authority Areas: Warrington

Main Cities, Towns & Villages  
Birchwood, Risley, Hollins Green

No. of Primary Substations	1	Evaluation Requirements FY24-FY34	Sites	1
No. of Bulk Supply Points	0		Capacity	1 MVA
Maximum Demand	15 MVA	Flexible Services FY24-FY28	Sites	0
Generation Capacity	6 MW		Tendered	0 MVA
Energy Demand	79 GWh		Procured	0 MVA
Domestic HP's	82	Approved Reinforcement work FY24-FY26	Sites	0
Non - Domestic HP's	21		New firm capacity	0 MVA
Electric Vehicles	628			

## DNOA Decision

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Risley (Demand)	Circuit	X	✓	Flexibility
Risley (Generation)	Switchgear	X	X	Reinforce