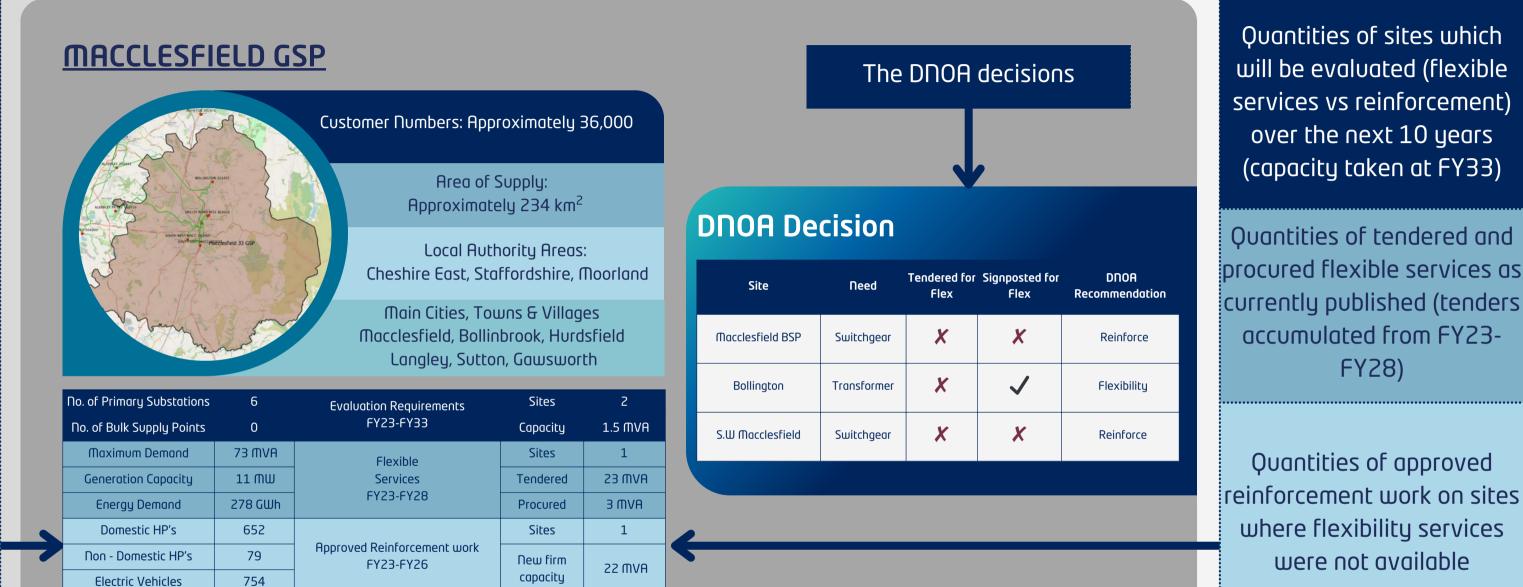


Report Structure

Number of BSP and Primaru substation by GSP substations

Maximum demand, total installed generation capacity and total energy at GSP (FY23 Best View)

Total number of electric vehicles, domestic & nondomestic heat pumps at GSP (FY23 Best View)



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 and quantities of sites which have approved reinforcement where flexibility services were not available.

over the next 10 years

(capacity taken at FY33)

accumulated from FY23-

FY28)

Quantities of approved

were not available

BREDBURY GSP



No. of Primary Substations No. of Bulk Supply Points	23 4	Evaluation Requirements FY23-FY33	Sites Capacity	6 40 MVA
Maximum Demand	256 MVA	Flexible	Sites	4
Generation Capacity	39 MW	Services	Tendered	246 MVA
Energy Demand	1516 GWh	FY23-FY28	Procured	0 MVA
Domestic HP's	2585		Sites	0
Non - Domestic HP's	288	Approved Reinforcement work FY23-FY26	New firm	0 000
Electric Vehicles	1757		capacity	O MVA

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Southern Gateway (New Primary)	Transformer	X	X	Reinforce
Moss Side	Transformer	X	/	Flexibility
Portwood	Switchgear	X	X	Reinforce
Victoria Park	Transformer	X	✓	Flexibility
Romiley	Transformer	X	/	Flexibility
Heaton Norris	Transformer	X	✓	Flexibility

CARRINGTON GSP



No. of Primary Substations	17	Evaluation Requirements	Sites	3
No. of Bulk Supply Points	4	FY23-FY33	Capacity	2.2 MVA
Maximum Demand	235 MVA	Flexible	Sites	3
Generation Capacity	93 MW	Services	Tendered	49 MVA
Energy Demand	1173 GWh	FY23-FY28	Procured	1.4 MVA
Domestic HP's	2197		Sites	0
Non - Domestic HP's	213	Approved Reinforcement work FY23-FY26	New firm	O MVA
Electric Vehicles	1800		capacity	UIIIVH

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Baguley	Switchgear	X	/	Flexibility
Chassen Road	Circuit	X	X	Reinforce
Barton BSP	Transformer	X	✓	Flexibility

HARKER / HUTTON GSP GROUP



Customer Numbers: Approximately 235,000

Area of Supply: Approximately 7106 km²

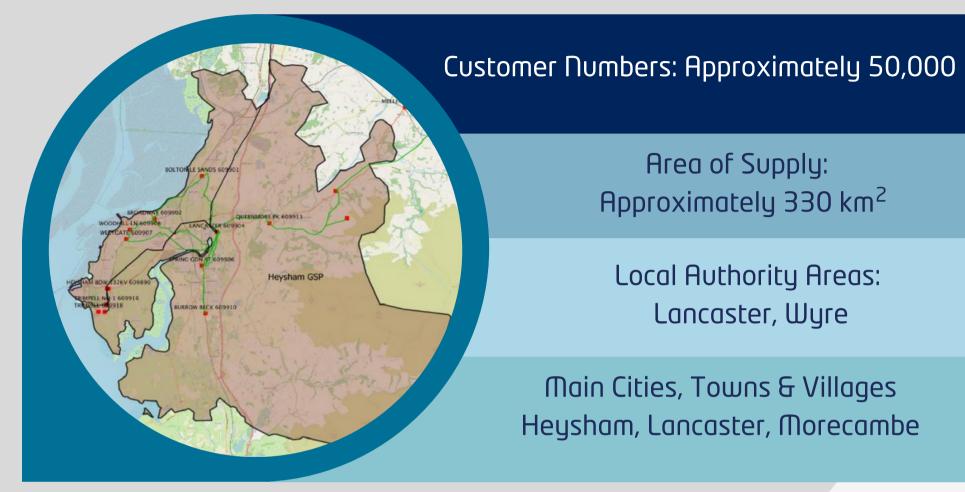
Local Authority Areas: Lancaster, Carlisle, South Lakeland, Allerdale, Craven, Copeland

Main Cities, Towns & Villages Carlisle, Penrith, Barrow-In-Furness, Workington, Whitehaven, Kendal

No. of Primary Substations	93	Evaluation Requirements	Sites	16
No. of Bulk Supply Points	10	FY23-FY33	Capacity	40 MVA
Maximum Demand	575 MVA	Flexible	Sites	16
Generation Capacity	466 MW	Services	Tendered	441 MVA
Energy Demand	3030 GWh	FY23-FY28	Procured	6 MVA
Domestic HP's	3912		Sites	5
Non - Domestic HP's	777	Approved Reinforcement work FY23-FY26	New firm	62 MVA
Electric Vehicles	2296		capacity	OZ IIIVII

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Embleton	Switchgear	✓	X	Flexibility
Bowaters	Transformer	✓	X	Flexibility
HDA 1 & 2	Circuits	✓	X	Flexibility
Leyland National	Switchgear	/	X	Flexibility
Alston	Interconnection	X	✓	Flexibility
Askam & Dalton	Circuits	X	✓	Flexibility
Coniston	Interconnection	X	✓	Flexibility
Easton	Interconnection	X	✓	Flexibility
Egremont	Transformer	X	✓	Flexibility
Gillsrow	Interconnection	X	✓	Flexibility
Mintsfeet	Circuit	X	✓	Flexibility
Morton Park & Pirelli	Transformer	X	✓	Flexibility
Sebergham	Interconnection	X	✓	Flexibility
Whasset	Transformer	X	✓	Flexibility
Wigton	Switchgear	X	✓	Flexibility
Yealand	Interconnection	X	✓	Flexibility
Carlisle BSP	Transformer	X	✓	Flexibility
Kendal BSP	Transformer	X	✓	Flexibility
Stainbure & Siddick BSP	Transformer	X	X	Reinforce

HEYSHAM GSP



No. of Primary Substations No. of Bulk Supply Points	9 2	Evaluation Requirements FY23-FY33	Sites Capacity	2 3.4 MVA
Maximum Demand	113 MVA	Flexible	Sites	3
Generation Capacity	67MW	Services	Tendered	31 MVA
Energy Demand	570 GWh	FY23-FY28	Procured	1.4 MVA
Domestic HP's	882		Sites	0
Non - Domestic HP's	145	Approved Reinforcement work FY23-FY26	New firm	O MVA
Electric Vehicles	545		capacity	ОПІЛ

Area of Supply:

Lancaster, Wyre

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Виггош Beck	Transformer	X	X	Reinforce
Claughton	Interconnection	X	\	Flexibility
Lancaster	Switchgear	X	\	Flexibility
Lancaster BSP	Transformer	X	/	Flexibility

KEARSLEY GSP



Customer Numbers: Approximately 322,000

Area of Supply: Approximately 398 km²

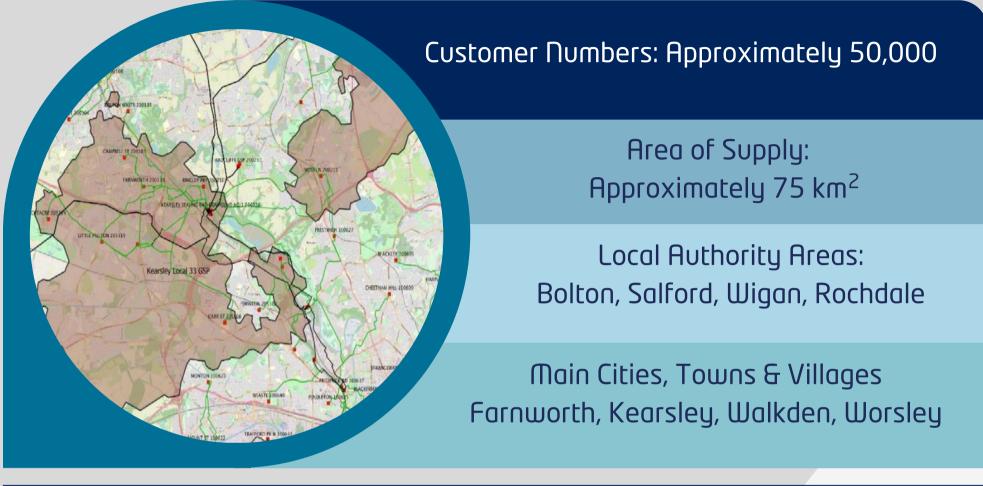
Local Authority Areas: Bolton, Wigan, Salford, Bury, Rochdale, Chorley

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

No. of Primary Substations	37	Evaluation Requirements	Sites	9
No. of Bulk Supply Points	7	FY23-FY33	Capacity	19 MVA
Maximum Demand	507 MVA	Flexible	Sites	5
Generation Capacity	120 MW	Services	Tendered	175 MVA
Energy Demand	2786 GWh	FY23-FY28	Procured	0.6 MVA
Domestic HP's	5010		Sites	0
Non - Domestic HP's	560	Approved Reinforcement work FY23-FY26	New firm	0 MVA
Electric Vehicles	3442		capacity	UIIIVII

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Frederick Road BSP	Transformer	X	X	Reinforce
Trinity	Transformer	X	X	Reinforce
Bolton BSP	Transformer	X	X	Reinforce
Bury BSP	Transformer	X	X	Reinforce
Blackfriars (FY23 FC Exceedance)	Circuit	X	X	Reinforce
Westhoughton	Switchgear	X	X	Reinforce
Westhoughton BSP	Transformer	X	X	Reinforce
Atherton Town Centre	Circuit	X	✓	Flexibility
Blackfriars (FY28 FC Exceedance)	Circuit	X	✓	Flexibility
Crown Lane	Switchgear	X	✓	Flexibility
Harwood	Circuit	X	/	Flexibility
Holt St	Transformer	X	X	Reinforce
Atherton BSP	Transformer	X	✓	Flexibility

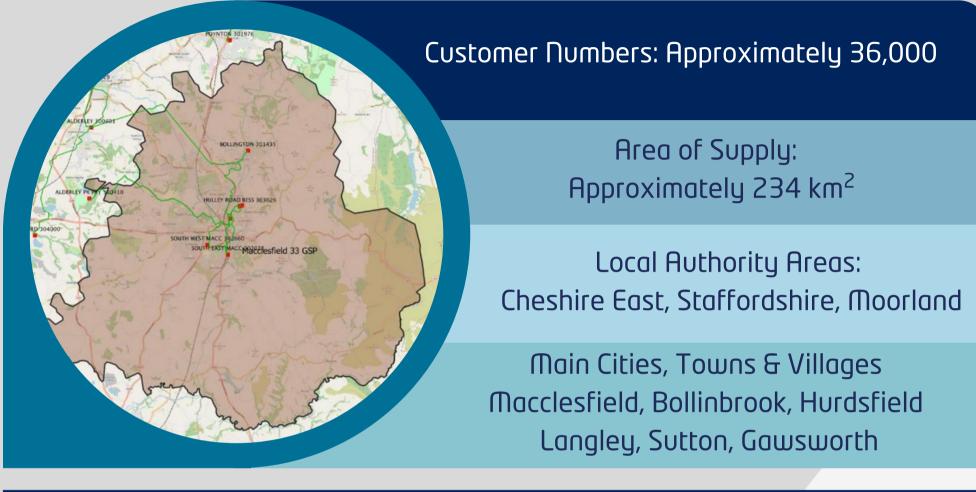
KEARSLEY LOCAL GSP



No. of Primary Substations	10	Evaluation Requirements	Sites	3
No. of Bulk Supply Points	0	FY23-FY33	Capacity	12 MVA
Maximum Demand	106 MVA	Flexible	Sites	2
Generation Capacity	25 MW	Services	Tendered	9.7 MVA
Energy Demand	595 GWh	FY23-FY28	Procured	0 MVA
Domestic HP's	1693		Sites	1
Non - Domestic HP's	101	Approved Reinforcement work FY23-FY26	New firm	22.9 MVA
Electric Vehicles	883		capacity	22.3 111011

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Little Hulton	Circuit	X	X	Reinforce
Moss Lane	Switchgear	X	>	Flexibility
Hill Top T11 & T12	Switchgear	X	/	Flexibility

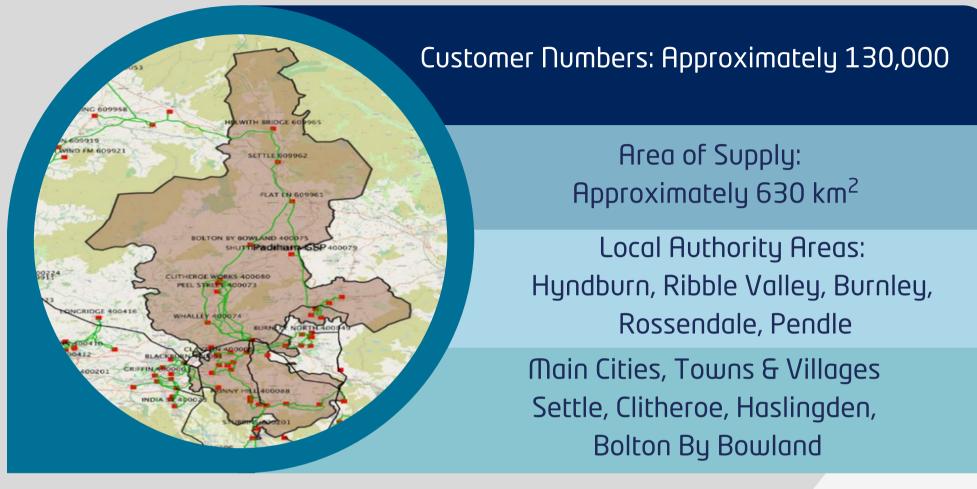
MACCLESFIELD GSP



No. of Primary Substations No. of Bulk Supply Points	6 0	Evaluation Requirements FY23-FY33	Sites Capacity	2 1.5 MVA
Maximum Demand	73 MVA	Flexible	Sites	1
Generation Capacity	11 MW	Services	Tendered	23 MVA
Energy Demand	278 GWh	FY23-FY28	Procured	3 MVA
Domestic HP's	652		Sites	1
Non - Domestic HP's	79	Approved Reinforcement work FY23-FY26	New firm	22 MVA
Electric Vehicles	754		capacity	ZZ IIIVĦ

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Macclesfield BSP	Switchgear	X	X	Reinforce
Bollington	Transformer	X	/	Flexibility
S.W Macclesfield	Switchgear	X	X	Reinforce

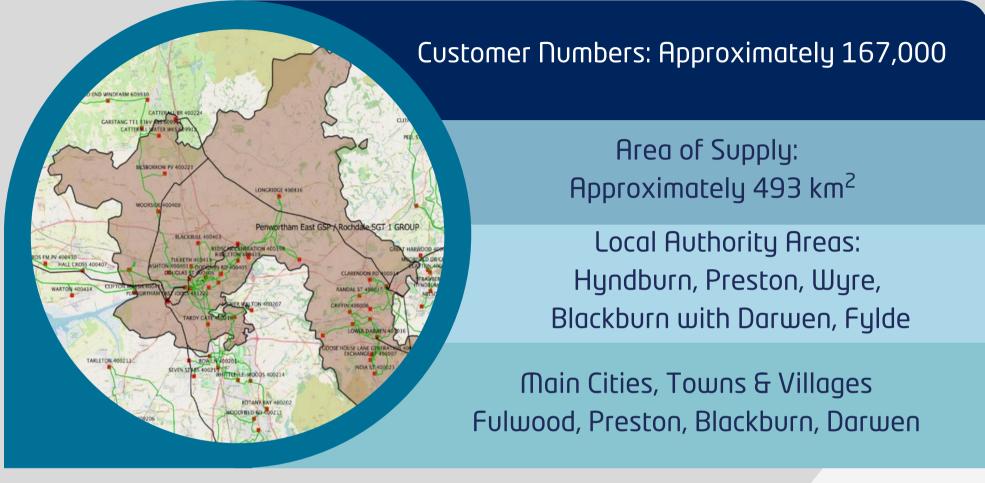
PADIHAM GSP



No. of Primary Substations	28	Evaluation Requirements	Sites	7
No. of Bulk Supply Points	4	FY23-FY33	Capacity	12.5 MVA
Maximum Demand	245 MVA	Flexible	Sites	6
Generation Capacity	91 MW	Services	Tendered	166 MVA
Energy Demand	1395 GWh	FY23-FY28	Procured	1.2 MVA
Domestic HP's	1567		Sites	1
Non - Domestic HP's	317	Approved Reinforcement work FY23-FY26	New firm	0 MVA
Electric Vehicles	1364		capacity	UIIIVH

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Spring Cottage	Switchgear	X	X	Reinforce
Bolton by Bowland	Interconnections	X	/	Flexibility
Flat Lane	Interconnections	X	/	Flexibility
Peel St	Interconnections	X	✓	Flexibility
Ribblesdale T13 & T14	Transformer	X	✓	Flexibility

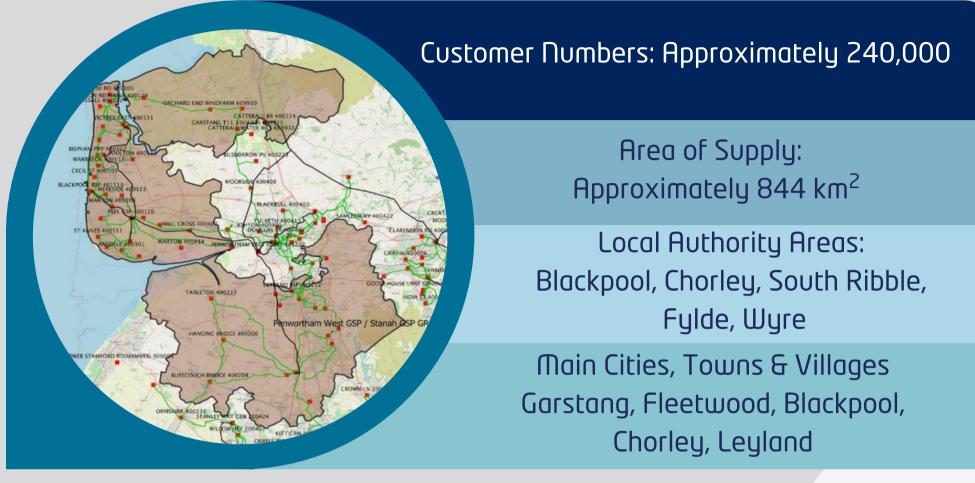
PENWORTHAM EAST GSP ROCHDALE SGT 1



No. of Primary Substations	31	Evaluation Requirements	Sites	7
No. of Bulk Supply Points	4	FY23-FY33	Capacity	12.5 MVA
Maximum Demand	300 MVA	Flexible	Sites	6
Generation Capacity	155 MW	Services	Tendered	332 MVA
Energy Demand	1713 GWh	FY23-FY28	Procured	40 MVA
Domestic HP's	2365		Sites	0
Non - Domestic HP's	359	Approved Reinforcement work FY23-FY26	New firm	0 MVA
Electric Vehicles	1805		capacity	UIIIVH

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Catterall Waterworks	Interconnections	✓	X	Flexibility
Lower Darwen BSP	Switchgear	X	X	Reinforce

PENWORTHAM WEST GSP - STANAH GSP GROUP



No. of Primary Substations No. of Bulk Supply Points	45 7	Evaluation Requirements FY23-FY33	Sites Capacity	7 16 MVA
Maximum Demand	447 MVA	Flexible	Sites	4
Generation Capacity	183 MW	Services	Tendered	96 MVA
Energy Demand	2301 GWh	FY23-FY28	Procured	6 MVA
Domestic HP's	3656		Sites	1
Non - Domestic HP's	566	Approved Reinforcement work FY23-FY26	New firm	O MVA
Electric Vehicles	2941		capacity	OHIVH

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Rossall	Interconnections	X	/	Flexibility
Bispham BSP	Transformer	X	X	Reinforce
Botany Bay	Interconnections	X	/	Flexibility
Bow Lane	Switchgear	X	X	Reinforce
Hall Cross	Switchgear	X	X	Reinforce
Hanging Bridge	Interconnections	X	✓	Flexibility
Wrightington BSP	Switchgear	X	X	Reinforce
Mossside & Seven Stars	Circuit	X	✓	Flexibility

ROCHDALE SGTs 2 3 4



No. of Primary Substations	17	Evaluation Requirements	Sites	1
No. of Bulk Supply Points	4	FY23-FY33	Capacity	21 MVA
Maximum Demand	185 MVA	Flexible	Sites	1
Generation Capacity	93 MW	Services	Tendered	136 MVA
Energy Demand	959 GWh	FY23-FY28	Procured	0 MVA
Domestic HP's	1555		Sites	0
Non - Domestic HP's	197	Approved Reinforcement work FY23-FY26	New firm	0 MVA
Electric Vehicles	907		capacity	OHIVII

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

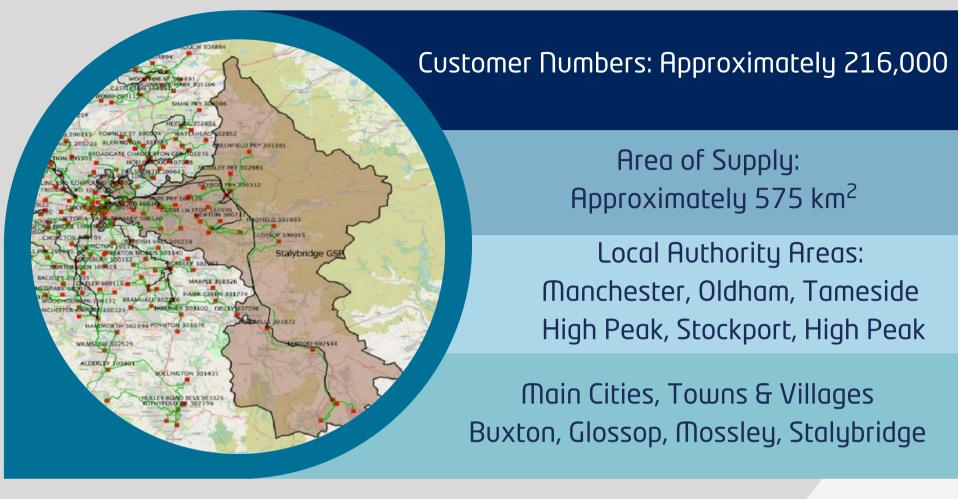
SOUTH MANCHESTER GSP



No. of Primary Substations	27	Evaluation Requirements	Sites	3
No. of Bulk Supply Points	4	FY23-FY33	Capacity	3.4 MVA
Maximum Demand	318 MVA	Flexible	Sites	1
Generation Capacity	65 MW	Services	Tendered	2.2 MVA
Energy Demand	1815 GWh	FY23-FY28	Procured	0 MVA
Domestic HP's	3368		Sites	0
Non - Domestic HP's	351	Approved Reinforcement work FY23-FY26	New firm	O MVA
Electric Vehicles	1925		capacity	UIIIVH

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Knott Mill	Switchgear	X	X	Reinforce
West Didsbury BSP (Generation)	Switchgear	X	X	Reinforce
West Didsbury BSP (Demand)	Switchgear	X	/	Flexibility
Moss Nook BSP	Switchgear	X	X	Reinforce
Cannon Street	Transformer	X	X	Reinforce
Trafford	Transformer	X	X	Reinforce
Whalley Range	Switchgear	X	\	Flexibility
Withington	Transformer	X	X	Reinforce
West Didsbury BSP	Transformer	X	/	Flexibility

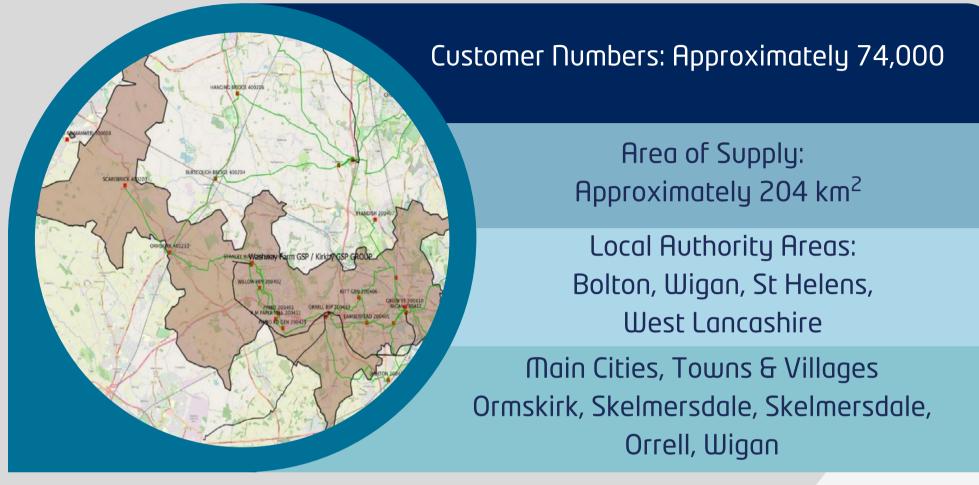
STALYBRIDGE GSP



No. of Primary Substations	28	Evaluation Requirements	Sites	7
No. of Bulk Supply Points	6	FY23-FY33	Capacity	71 MVA
Maximum Demand	355 MVA	Flexible	Sites	4
Generation Capacity	110 MW	Services	Tendered	173 MVA
Energy Demand	2034 GWh	FY23-FY28	Procured	1 MVA
Domestic HP's	3265		Sites	0
Non - Domestic HP's	358	Approved Reinforcement work FY23-FY26	New firm	O MVA
Electric Vehicles	1736		capacity	OHIVII

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Queen Park	Transformer	X	X	Reinforce
Mayfield (New Primary)	Transformer	X	X	Reinforce
Ardwick	Transformer	X	/	Flexibility
Central Manchester	Transformer	X	/	Flexibility
Eastlands	Transformer	X	X	Reinforce
Hattersley	Transformer	X	/	Flexibility
Bradford	Switchgear	X	X	Reinforce
Buxton BSP	Transformer	X	X	Reinforce
Droylsden BSP	Transformer	X	X	Reinforce
Heyrod BSP	Transformer	X	X	Reinforce
Gowhole	Switchgear	X	✓	Flexibility
Openshaw	Transformer	X	X	Reinforce

WASHWAY FARM / KIRKBY GSP



No. of Primary Substations No. of Bulk Supply Points	12 3	Evaluation Requirements FY23-FY33	Sites Capacity	6 8.2 MVA
Maximum Demand	183 MVA	Flexible	Sites	2
Generation Capacity	100 MW	Services	Tendered	47 MVA
Energy Demand	942 GWh	FY23-FY28	Procured	0 MVA
Domestic HP's	1789		Sites	1
Non - Domestic HP's	161	Approved Reinforcement work FY23-FY26	New firm	0 00/0
Electric Vehicles	884		capacity	O MVA

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Skelmersale	Switchgear	X	X	Reinforce
Skelmersdale BSP	Transformer	X	X	Reinforce
Wigan BSP	Transformer	X	✓	Flexibility
Ashton (Golborne)	Circuit	X	✓	Flexibility
Green St T11	Transformer	X	X	Reinforce
Upholland	Transformer	X	✓	Flexibility

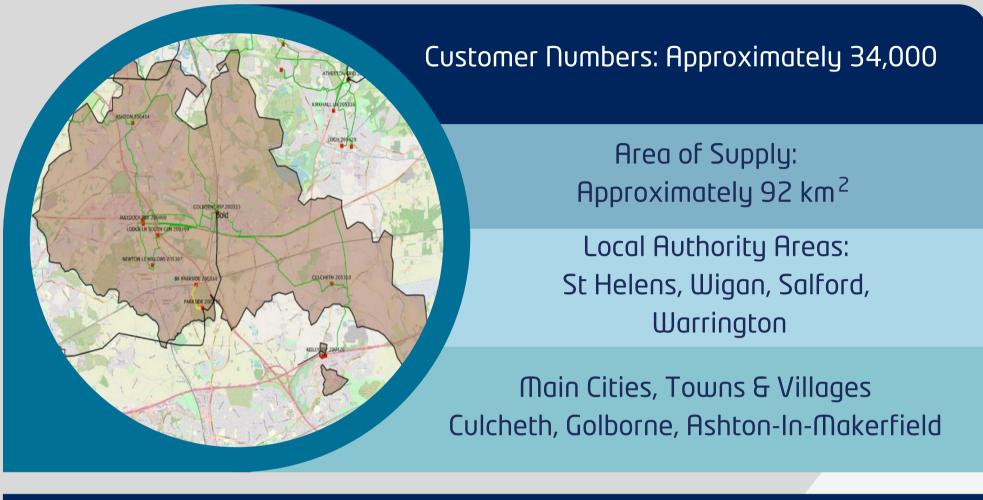
Whitegate GSP



No. of Primary Substations	23	Evaluation Requirements	Sites	0
No. of Bulk Supply Points	4	FY23-FY33	Capacity	0 MVA
Maximum Demand	262MVA	Flexible	Sites	0
Generation Capacity	85 MW	Services	Tendered	0 MVA
Energy Demand	1373 GWh	FY23-FY28	Procured	0 MVA
Domestic HP's	2924		Sites	0
Non - Domestic HP's	283	Approved Reinforcement work FY23-FY26	New firm	O MVA
Electric Vehicles	1072		capacity	UIIIVH

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Royton BSP	Switchgear	X	X	Reinforce
Greenhill	Switchgear	X	X	Reinforce
Hollinwood	Switchgear	X	X	Reinforce

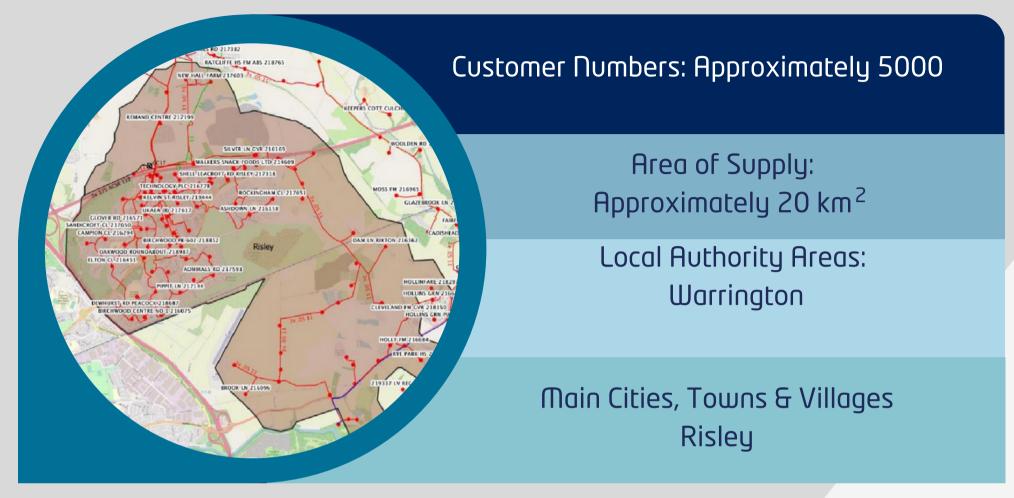
Bold (Golbourne BSP)



No. of Primary Substations	5	Evaluation Requirements	Sites	2
No. of Bulk Supply Points	0	FY23-FY33	Capacity	6.7 MVA
Maximum Demand	82 MVA	Flexible	Sites	2
Generation Capacity	70 MW	Services	Tendered	53 MVA
Energy Demand	387 GWh	FY23-FY28	Procured	0 MVA
Domestic HP's	629		Sites	0
Non - Domestic HP's	56	Approved Reinforcement work FY23-FY26	New firm	O MVA
Electric Vehicles	408		capacity	ОШИП

Site	Need	Tendered for Flex	Signposted for Flex	DNOA Recommendation
Golborne	Transformer	X	✓	Flexibility

RISLEY GSP



No. of Primary Substations	1	Evaluation Requirements	Sites	0
No. of Bulk Supply Points	0	FY23-FY33	Capacity	O MVA
Maximum Demand	15 MVA	Flexible	Sites	0
Generation Capacity	6 MW	Services	Tendered	0 MVA
Energy Demand	71 GWh	FY23-FY28	Procured	0 MVA
Domestic HP's	109		Sites	0
Non - Domestic HP's	15	Approved Reinforcement work FY23-FY26	New firm	O MVA
Electric Vehicles	104		capacity	OHIVH

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