

KEY Primary energy centre Medium / small site -• public or social ownership Large site - private ۲ ownership Medium / small site - \odot private ownership Large site - public or social ownership Phase 1 Phase 2 Possible Phase 2

Site Identifier	Short Name
Energy Centre	Primary Energy Centre, Hoobrook Enterprise
11	Hoo Farm Ind Est 1
кк	Hoo Farm Ind Est 2
LL	Hoo Farm Ind Est 3
MM	Hoo Farm Ind Est 4
FF	Hoobrook Enterprise Centre 1
GG	Hoobrook Enterprise Centre 2
нн	Hoobrook Enterprise Centre 3
NN	Worcester Rd Retail Est



Originated by Checked by Approved by				
	Ver	Amendments		
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Wychavon District Council

Project

Worcestershire Heat Mapping

Drawing Title PROPOSED SOUTHERN DISTRICT HEAT NETWORK KIDDERMINSTER

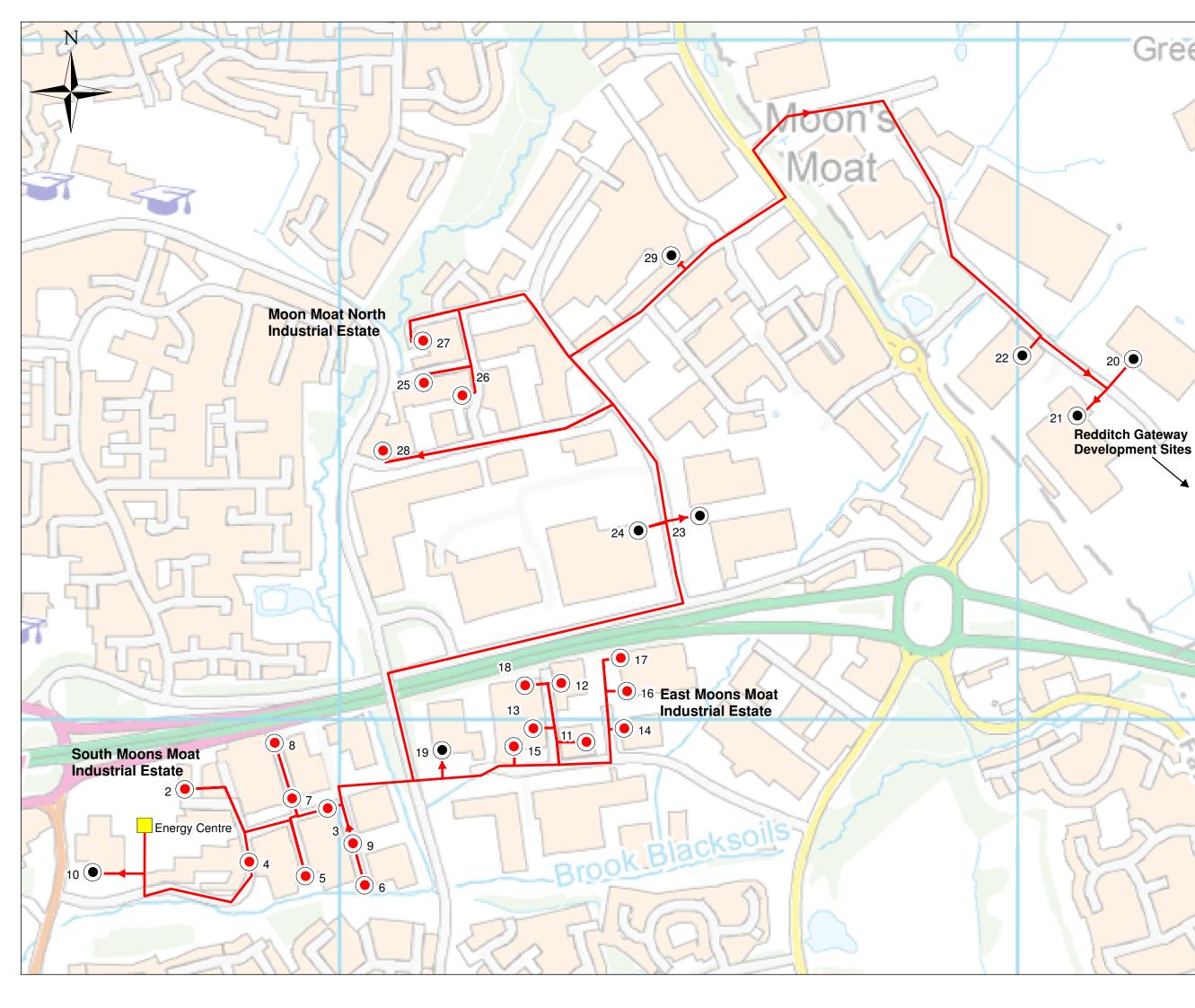
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KEY

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	Primary energy centre
	Medium / small site -
•	public or social ownership
	Large site - private
•	ownership
\bigcirc	Medium / small site -
\sim	private ownership
•	Large site - public or social
•	ownership
-	Phase 1
-	Phase 2

Possible Phase 2

Site	
	Short Name
1	Primary Energy Centre
2	South Moons Moat 1
3	South Moons Moat 2
4	South Moons Moat 3
5	South Moons Moat 4
6	South Moons Moat 5
7	South Moons Moat 6
8	South Moons Moat 7
9	South Moons Moat 8
10	Marubeni-Komatsu
11	East Moons Moat 1
12	East Moons Moat 2
13	East Moons Moat 3
14	East Moons Moat 4
15	East Moons Moat 5
16	East Moons Moat 6
17	East Moons Moat 7
18	East Moons Moat 8
19	Blue Earth
20	SP Group
21	Lear Corp
22	Magna Intier
23	UK-NSI
24	FW Thorpe
25	Moon Moat North 1
26	Moon Moat North 2
27	Moon Moat North 3
28	Moon Moat North 4
29	Master Magnets
1	

	23	UK-NSI				PX 1
	24	FW Thorpe				Z Z
	25	Moon Moat No	orth 1			Į
	26	Moon Moat No	orth 2			z
	27	Moon Moat No	orth 3			H۳.
	28	Moon Moat No	orth 4			臣
L	29	Master Magne	ts			Б
Z						
в	Locations updated		IW 09/09/2016	TE 05/01/2017	TE 05/01/2017	REDDITCH NORTHERN MAIN.mxd
A	First Issue		J Chapman 09/09/2016	M Kerslake 09/09/2016	M German 09/09/2016	B RED
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Client

Wychavon District Council

Project

Worcestershire Heat Mapping

Drawing Title PROPOSED NORTHERN DISTRICT HEAT NETWORK, REDDITCH

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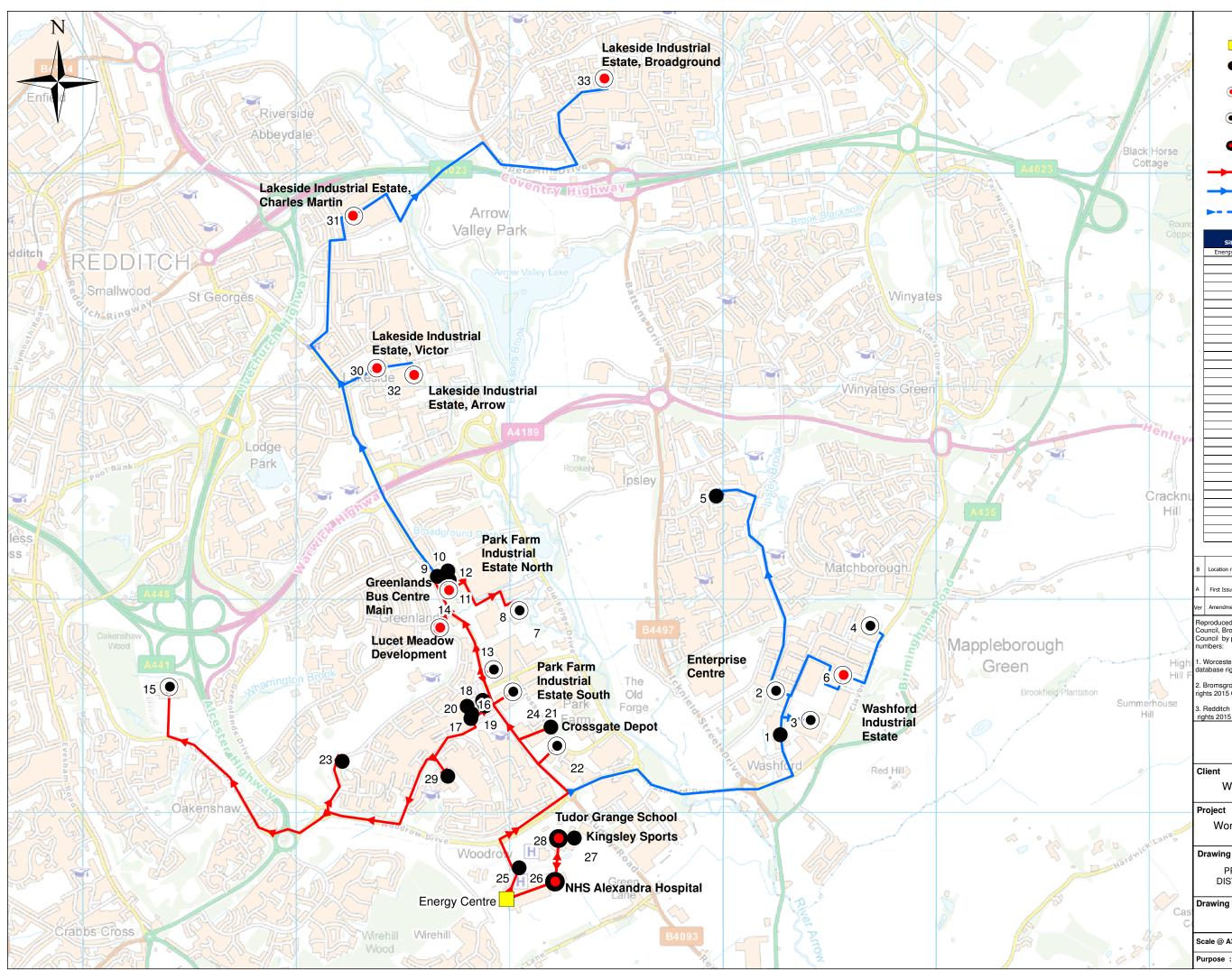
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KEY Primary energy centre Medium / small site public or social ownership Large site - private • ownership Medium / small site -• private ownership Large site - public or social ownership Phase 1 Phase 2

Possible Phase 2

Site ID	Short Name
Energy Centre	Primary Energy Centre
1	Enterprise Centre
2	Rockline Industies
3	Gardner Denver
4	Valeo Service U
5	Arrow Vale Academy
6	Washford Ind Est
7	Park Farm Ind Est South
8	Vsmpo Tirus
9	Greenlands Bus Centre Main
	Greenlands Bus Centre Main Greenlands Bus Centre 4
10	
11	Greenlands Bus Centre 5
12	Park Farm Ind Est North
13	Langdons
14	Lucet Meadow Development
15	Tesco
16	Woodrow Centre 74 - 76
17	Woodrow Centre 44 - 46
18	Woodrow Library
19	Woodrow Office
20	Woodrow Centre
21	Crossgate Depot
22	Profin Protective Finishing
23	Woodrow Youth
24	Alcoa Fastenings
25	New development
26	NHS Alexandra Hospital
27	Kingsley Sports
28	School Tudor Grange
29	School Woodrow First
30	Lakeside Ind Est, Victor
31	Lakeside Ind Est, Charles Martin
32	Lakeside Ind Est, Arrow

в	Location name updated	IW 05/01/2017	TE 05/01/2017	TE 05/01/2017	
A	First Issue	J Chapman 09/09/2016	M Kerslake 09/09/2016	M German 09/09/2016	
Ver	Amendments Originated by and date Approved by and date				
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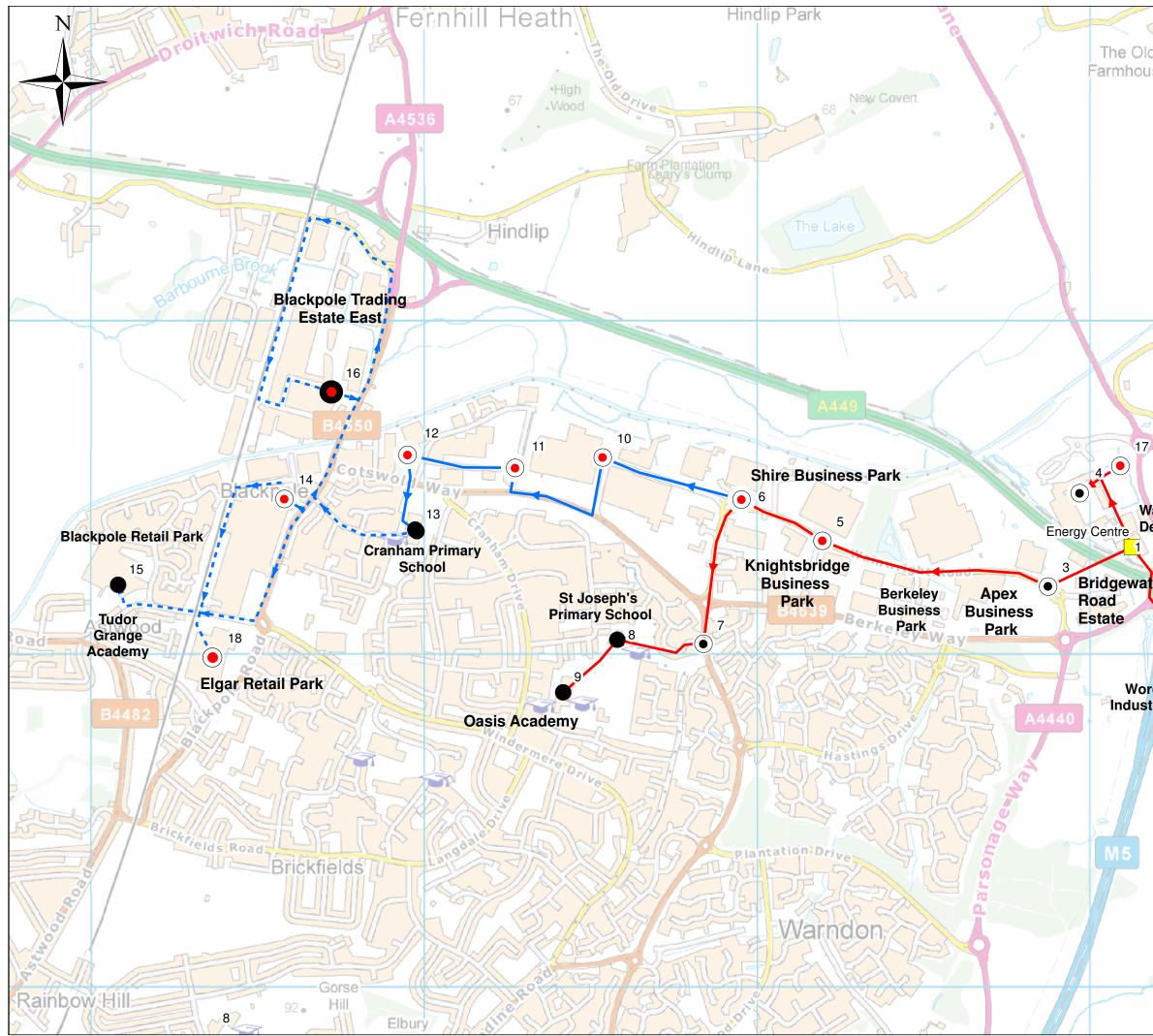
Worcestershire Heat Mapping

Drawing Title

PROPOSED NHS AND INDUSTRIAL DISTRICT HEAT NETWORK, REDDITCH

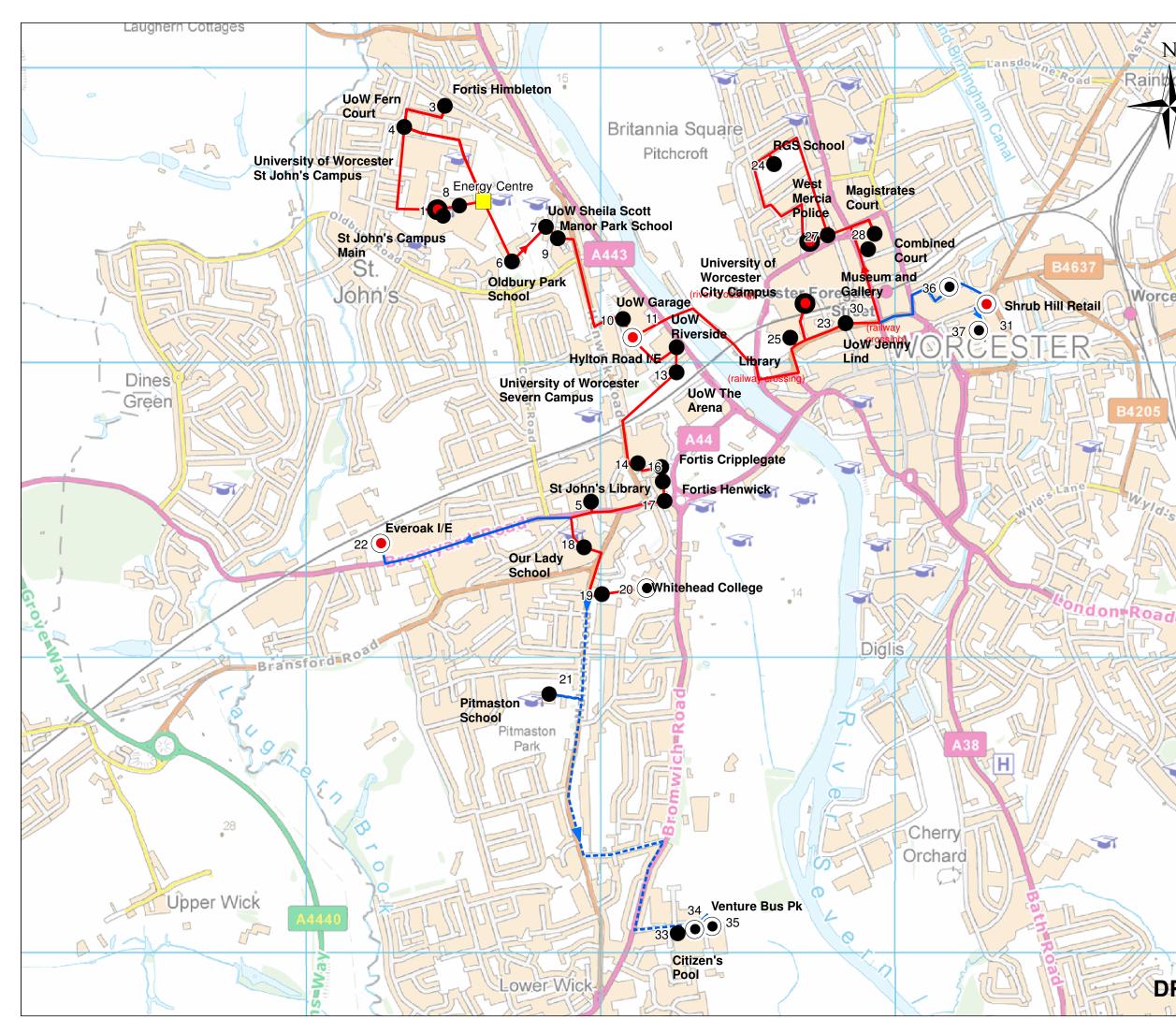
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a	Medium / small site -	
se	public or social ownership	
	Large site - private	
	ownership	
	Medium / small site - private ownership	
	Large site - public or social	
	ownership	
	Phase 1	
	Phase 2	
	Possible Phase 2	
Offer		
Far	Node Name Energy Centre Primary Energy Centre	
	1 Warndon Depot	
	2 Worcester 6 3 Bridgewater Road	
01		
	5 Berkeley, Apex & Wainwright Business Parks 6 Brindley Road	
	7 Homestead Ave 8 School Gorse Hill	
	9 School Oasis Academ	
	10 Ebrington Drive 11 Badgeworth Drive	
	12 Buckhold Drive	
	13 School Cranham Prim 14 Blackpole Retail Park	
	15 School Tudor Grange	
	16 Blackpole Trading Park 17 David Lloyd	
	18 Elgar Retail Park	
er 6	DRAFT	
	A J Chapman M Kerslake M German	
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	Wychavon District Council	
\rightarrow	Project Worcestershire Heat Mapping	
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	Client Wychavon District Council Project Worcestershire Heat Mapping Drawing Title PROPOSED NORTH WORCESTER DISTRICT HEAT NETWORK, WORCESTER Drawing No. 5.8 Scale @ A3 : 1:11,000 Purpose : Information	
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	Purpose : Information	

Path: W:\1070145 Worcestershire heat mapping\09 Documents\GIS\ArcGIS_maps\FIGURE XX Priority Sites WORCESTER NORTH NETWORK_JC





KEY

Primary energy centre Medium / small site public or social ownership Large site - private ownership Medium / small site private ownership Large site - public or social ownership

Possible Phase 2

nergyCentre Primary Energy Centre 29 Museum & Gallery 31 Shrub Hill Retail 30 UoW Jenny Lind 23 UoW City Campus 24 Library 25 Library 18 School Our Lady 19 St. John's Sport Centre 5 St. John's Sport Centre 16 Fortis Stevern 14 Fortis Severn 12 UoW Riverside 13 UoW Riverside 14 Fortis Ressel 15 UoW Riverside 16 School Oldbury PK 17 Gues School Oldbury PK 18 UoW Ferena 11 Hylton Road I/E 12 UoW Feren Court 13 UoW Ferens 14 Out Forts 15 School Oldbury PK 9 School Manor Park 4 UoW Ferens 14 UoW St Johns Campus Main 3 Fortis Himbleton 36<	Site Identifier
31 Shrub Hill Retail 30 UoW Jenny Lind 23 UOW City Campus 25 Library 18 School Our Lady 19 St. John's Sport Centre 5 St. John's Sport Centre 16 Fortis Cripplegate 16 Fortis Scipplegate 17 Fortis Scipplegate 18 Vertis Russel 20 Everoak I/E 11 Hylton Road I/E 10 UoW Garage 6 School Oldbury Pk 9 School Nanor Park 4 UoW Fern Court 1 UoW Sheila Scott 1 UoW Sheila Scott 1 UoW Stelia Scott 26 West Mercia Police 27 Magistrates Court 28 Combined College 27 Magistrates Court 28 Combined College 27 Magistrates Court 28 Combined College 29 Venture Bus Pk 34 Amdac	nergy Centre
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23 UoW City Campus 25 Library 18 School Our Lady 19 St. John's Sport Centre 5 St. John's Sport Centre 16 Fortis Cripplegate 16 Fortis Severn 17 Fortis Severn 18 UoW Riverside 13 UoW The Arena 11 Hytton Road I/E 10 UoW Grage 6 School Oldbury Pk 9 School Manor Park 4 UoW Shella Scott 1 UoW Starges 7 UoW Shella Scott 10 UoW Starges 26 Meenans Ct 27 Magistrates Court 28 Combined Court 27 ASDA 28 Combined Court 37 ASDA 20 Whitehead College 35 Venture Bus Pk	31
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11 Hylton Road I/E 10 UOW Garage 6 School Oldbury Pk 9 School Nanor Park 4 UOW Forn Court 8 UOW Porters 7 UOW Shella Scott 1 UOW Shella Scott 24 RGS School 26 West Mercia Police 27 Magistrates Court 28 Combined Court 37 ASDA 20 Whitehead College 35 Venture Bus Pk 34 Amdac	12
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27 Magistrates Court 28 Combined Court 37 ASDA 20 Whitehead College 35 Venture Bus Pk 34 Amdac	24
27 Magistrates Court 28 Combined Court 37 ASDA 20 Whitehead College 35 Venture Bus Pk 34 Amdac	26
28 Combined Court 37 ASDA 20 Whitehead College 35 Venture Bus Pk 34 Amdac	
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21 Pitmaston School	

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Wychavon District Council

Project

Worcestershire Heat Mapping

Drawing Title

PROPOSED UNIVERSITY AND CITY CENTRE DISTRICT HEAT NETWORK WORCESTER

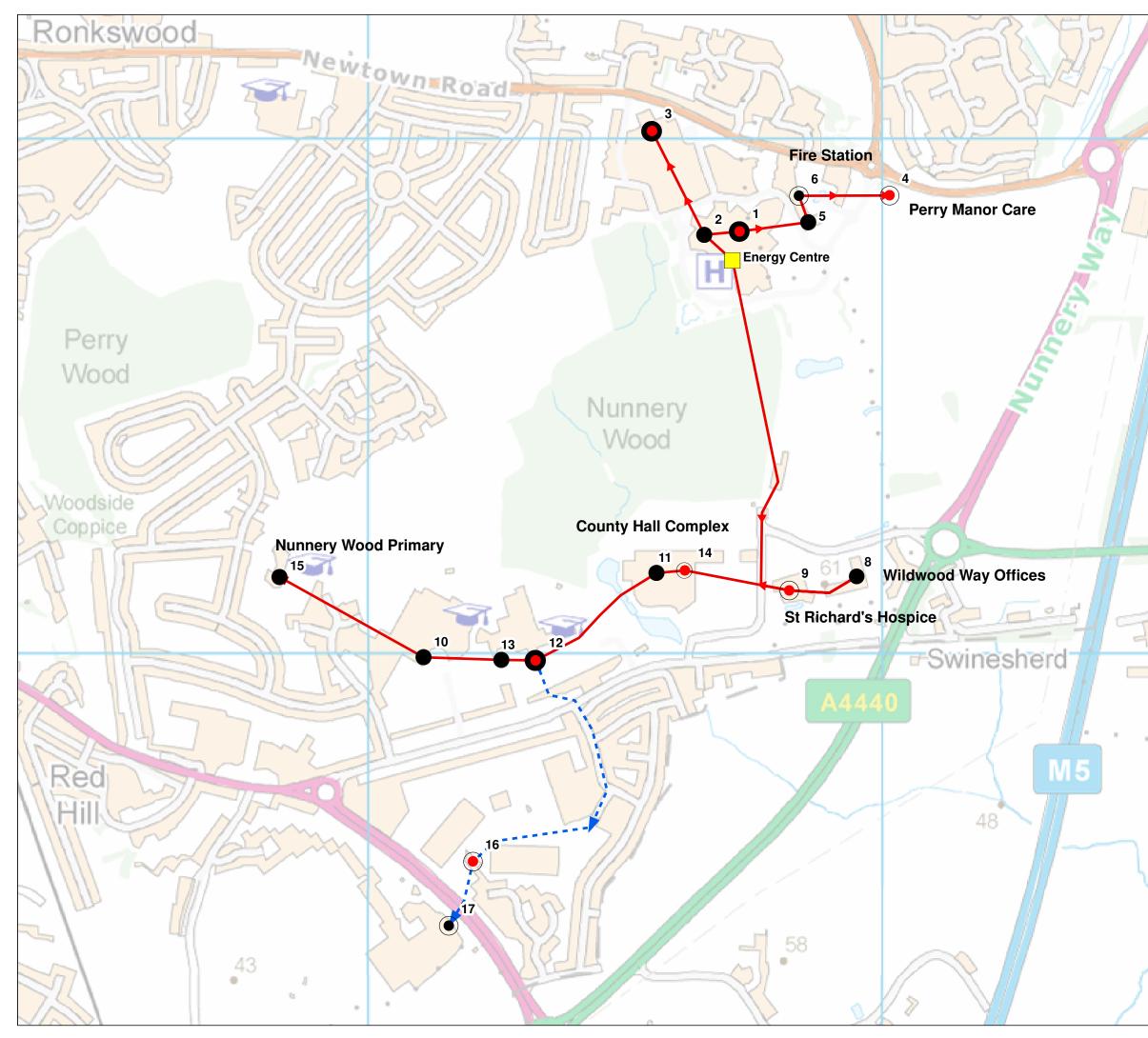
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	Primary energy centre
	Medium / small site -
•	public or social ownership
	Large site - private
0	ownership
\bigcirc	Medium / small site -
<u> </u>	private ownership
•	Large site - public or social
•	ownership
	Phase 1
-	
	Phase 2

Possible Phase 2

Site	Short Nama
Identifier	Short Name
Energy Centre	Primary Energy Centre
1	Royal NHS MAIN
2	Royal NHS CHEC
3	Worcs Mental Health Trust
4	Perry Manor Care
5	Fire Station
6	Kings Court Bus Pk
8	Wildwood Way Offices
9	St Richards Hospice
10	School Nunnery High
11	County Hall Secondary
12	6th Form Main
13	6th Form Secondary
14	County Hall Complex
15	School Nunnery Primary
16	Whittington Rd Redevelopment
17	RNIB New College



A		J Chapman 09/09/2016		
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Client Wychavon District Council

Project

Worcestershire Heat Mapping

Drawing Title PROPOSED SOUTHERN DISTRICT HEAT NETWORK, WORCESTER

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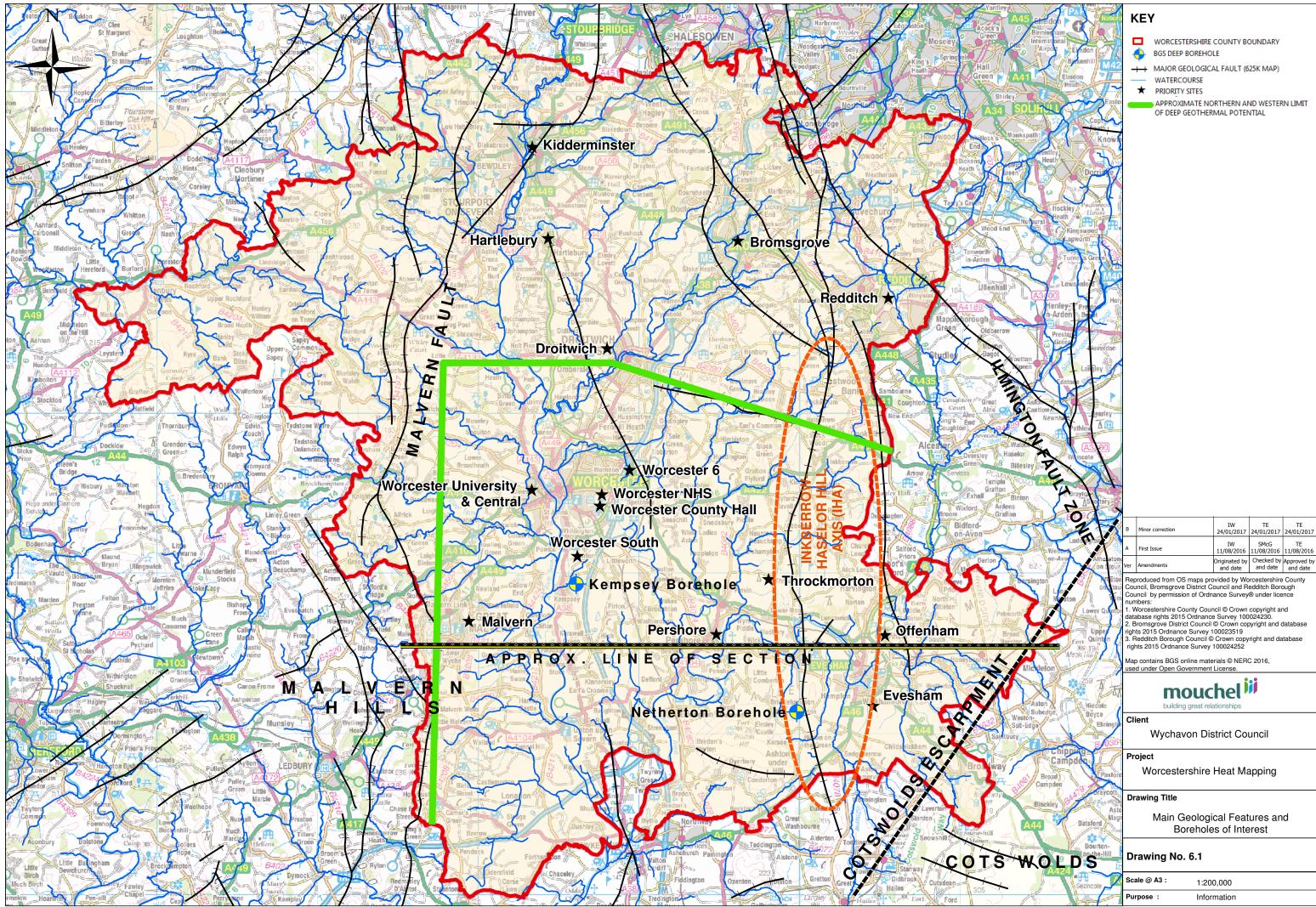
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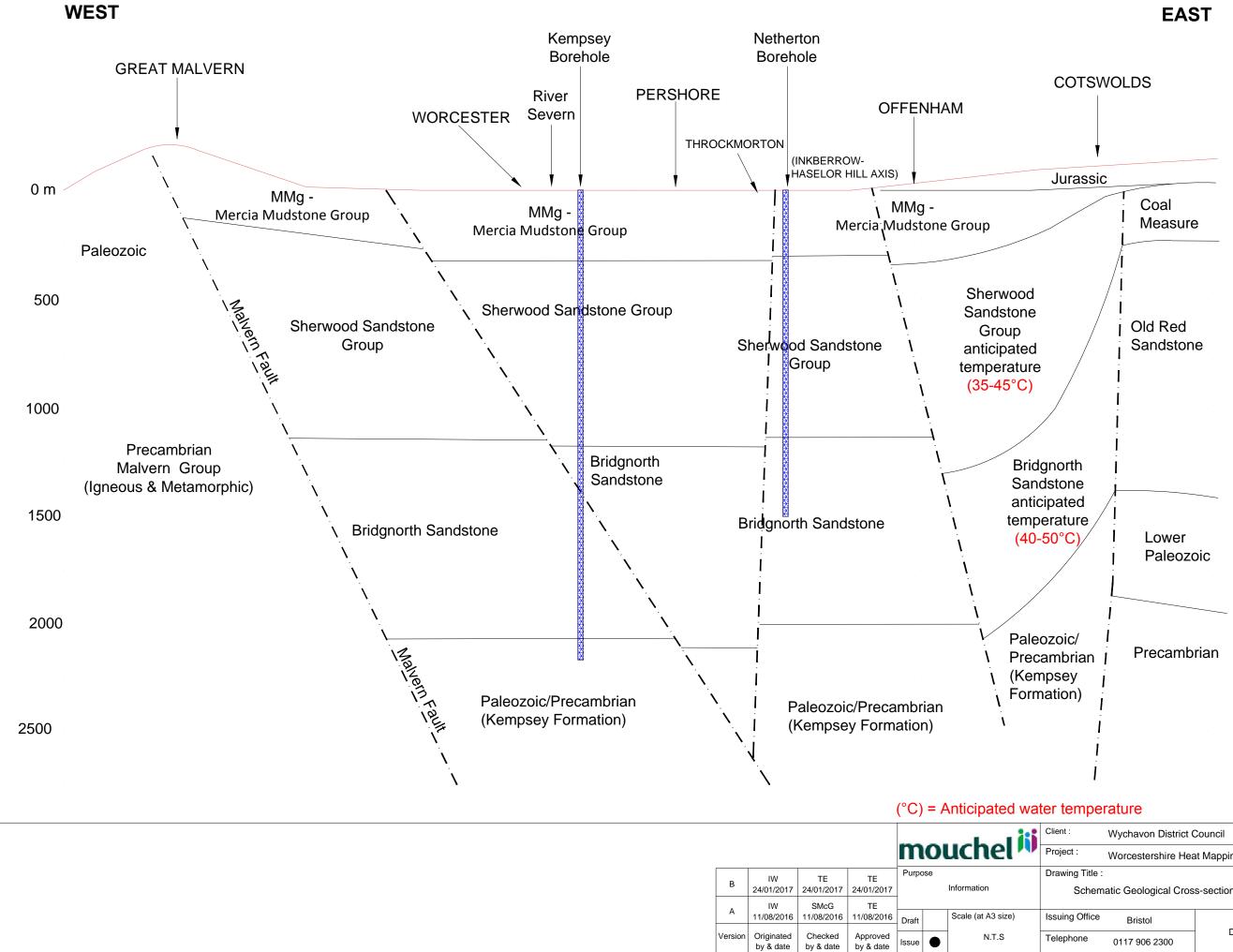
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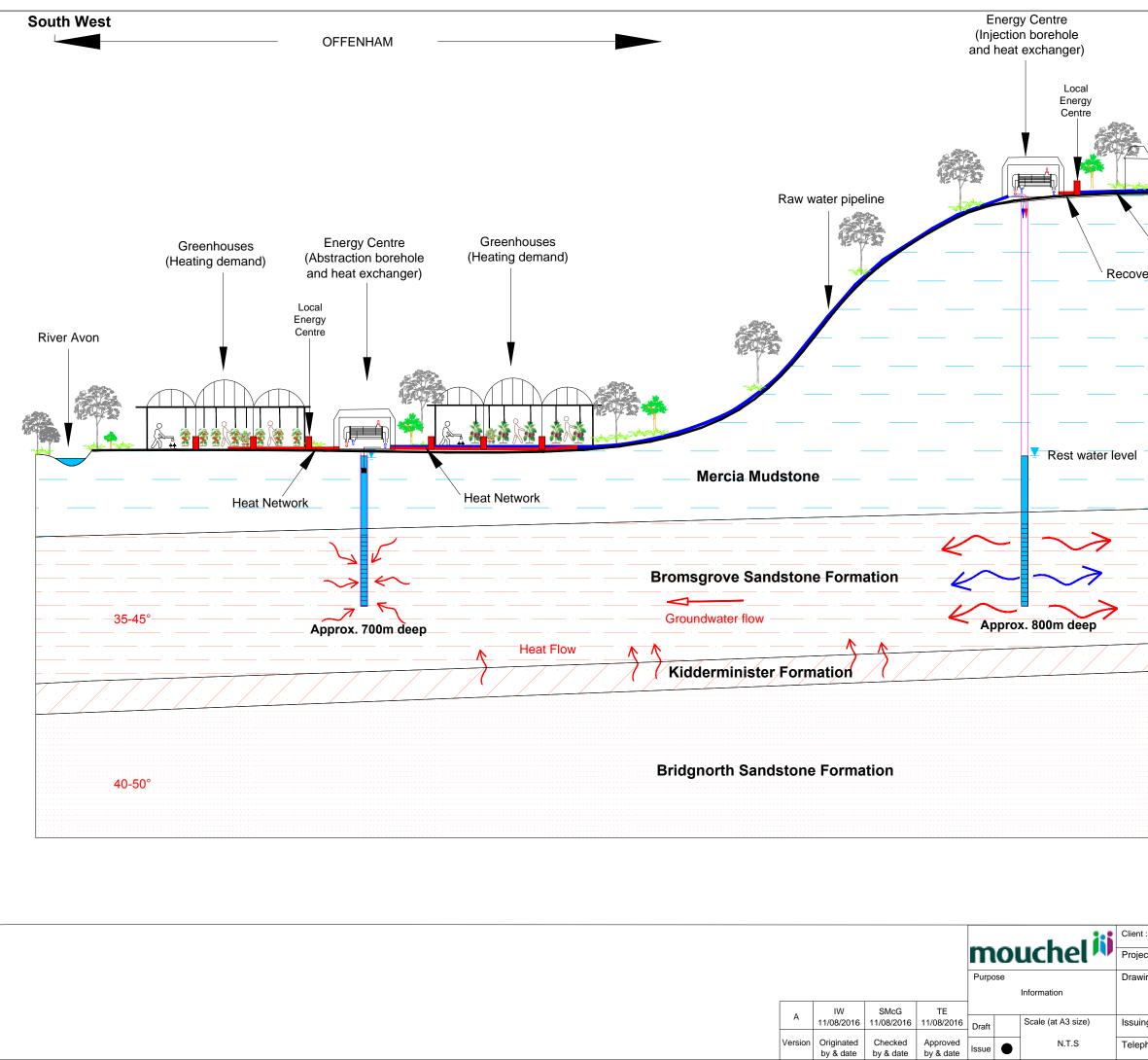


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WORCESTER BASIN WEST TO EAST SCHEMATIC CROSS SECTION



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Schematic Geological Cross-section Through Southern Worcestershire			
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g Office	Bristol		Version
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ValeFresco - Offenham (2,400,000 kWh/yr for greenhouse heating) (Greenhouses for tomato growing) (Heating provided by gas boiler)

Westland Nurseries, Ferry Lane (Unheated greenhouses only)

30

Path: W:\1070145 Worcestershire heat mapping\09 Documents\GIS\ArcGIS_maps\Final Reporting\Drawing 8.2 Offenham Heat Network Concept.mxd

Abstraction borehole Target Formation: Either Sherwood Sandstone (400-1,100 m bgl) or Bridgenorth Sandstone (1,300-2,100m bgl). Anticipated borehole depth: 700m (Sherwood) or 2km (Bridgenorth) Antipated water temperature: 40 °C (Sherwood), or 40-50 °C (Bridgenorth) Water quality: Brackish (Sherwood), possibly saline (Bridgenorth) Anticipated water level: artesian pressure or near surface

30

Bannister Distribution and Logistics • 🏼 2,873,828 kWh/yr 🎽 (DECC Heat Map estimate) Relates to former mushroom tunnels which are no longer active. Do have some cooling demand still.

-

Farm adjacent to River Avon •

(DECC Heat Map estimate)

Injection borehole

Target Formation: Sherwood Sandstone Anticipated depth: 800m 15-20m available extra head compared to abstraction location due to higher ground surface elevation)

Kanes Foods Ltd

35

(Various coolling systems + evaporative/ammonia glycol systems) 🛿 (Heating provided by steam gas boiles 🖡 4,630,000 kWh projected by DECC heatmap) (Electricity from national grid used for refrigeration. Numerous energy (Water treatment works also present on site.) Water is cooled following treatment)

> Evesham Vale Growers (Heat provided by CHP + 2,000,000 kWh / yr approx.) (Cooling - heating demand expected to be reduced significantly in coming years) 💼 (Tomato greenhouse and packaging facilities)

Westland Nurseries, Station Road (8,300,000 kWh/yr for heating greenhouses) (Heat currently provided by gas boilers.) Plan to replace with CHP by 2017) (Heat demand from September to May only)

Holt R L - Offenham (9,360,000 kWh/yr gas consumption) (CHP set to deliver 1.13 MW power and 1.2 MW of heat) (<10% of heat currently comes from gas boiler) (High CO2 demand in summer months)

Zenith Nurseries Ltd No current heating demand

iye, Earthstar Geo

KEY



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Worcestershire Heat Mapping

Drawing Title

OFFENHAM HEAT NETWORK CONCEPT

Drawing No. 8.2

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Purpose :	Information

s, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP,

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