

KEY

- ★ PRIORITY SITES IDENTIFIED BY WYCHAVON DC
- ▭ WORCESTERSHIRE COUNTY BOUNDARY
- TOTAL HEAT DEMAND IN KWH (EXCLUDING RESIDENTIAL)
- 4,540,907 - 10,000,000
- 10,000,001 - 20,000,000
- 20,000,001 - 30,000,000
- 30,000,001 - 40,000,000
- 40,000,001 - 50,000,000
- 50,000,001 - 60,000,000

Data Source: Heat Consumption Data from DECC Heat Mapping.

Note: It should be noted that although the heat map has been produced by making best use of available data and technology, there is an expected margin of error and it should not be relied upon in isolation. No personal or private data was used, the map only shows modelled aggregate information. DECC gives no guarantee or warranty as to the completeness or accuracy of the heat map. The heat map should not be relied upon for accurate information relating to specific locations, nor should it be relied on in the context of making commercial decisions.

Ver	Amendments	IW 04/08/2016 Originated by and date	MK 04/08/2016 Checked by and date	TE 04/08/2016 Approved by and date
A				

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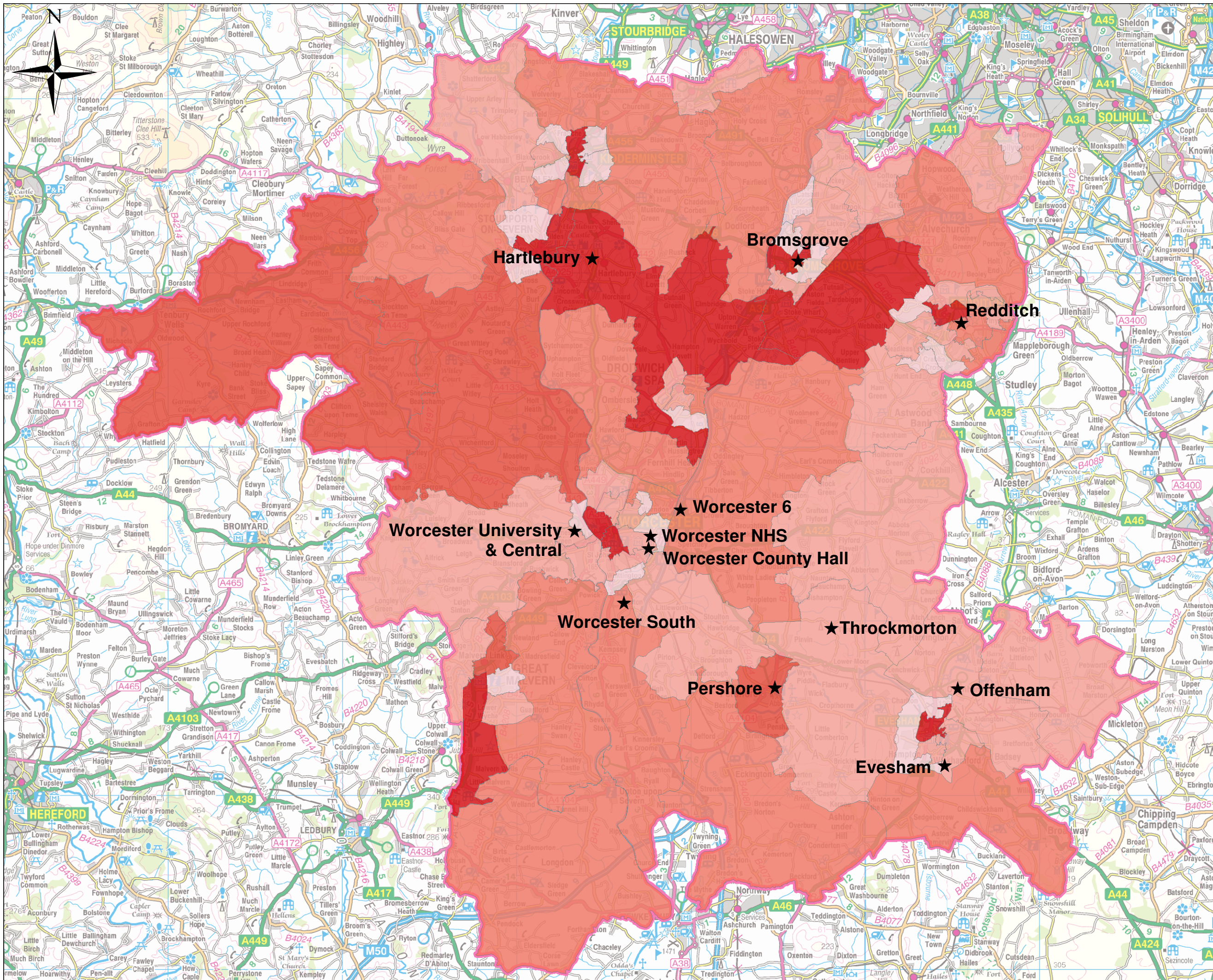
Client
Wychavon District Council

Project
Worcestershire Heat Mapping

Drawing Title
Worcestershire Heat Demand Hot Spot

Drawing No. 4.1

Scale @ A3 : 1:200,000
Purpose : Information



KEY

- ★ PRIORITY SITES IDENTIFIED BY WYCHAVON DC
- ▭ WORCESTERSHIRE COUNTY BOUNDARY

TOTAL ELECTRICITY CONSUMPTION

Non-Residential Electricity Consumption (kWh)

- 500,000 - 2,000,000
- 2,000,001 - 5,000,000
- 5,000,001 - 7,500,000
- 7,500,001 - 10,000,000
- 10,000,001 - 250,000,000

Data Source:
Heat Consumption Data from DECC Heat Mapping, MSOA area boundaries from Office of National Statistics under Open Government Licence and the UK Government Licensing Framework.

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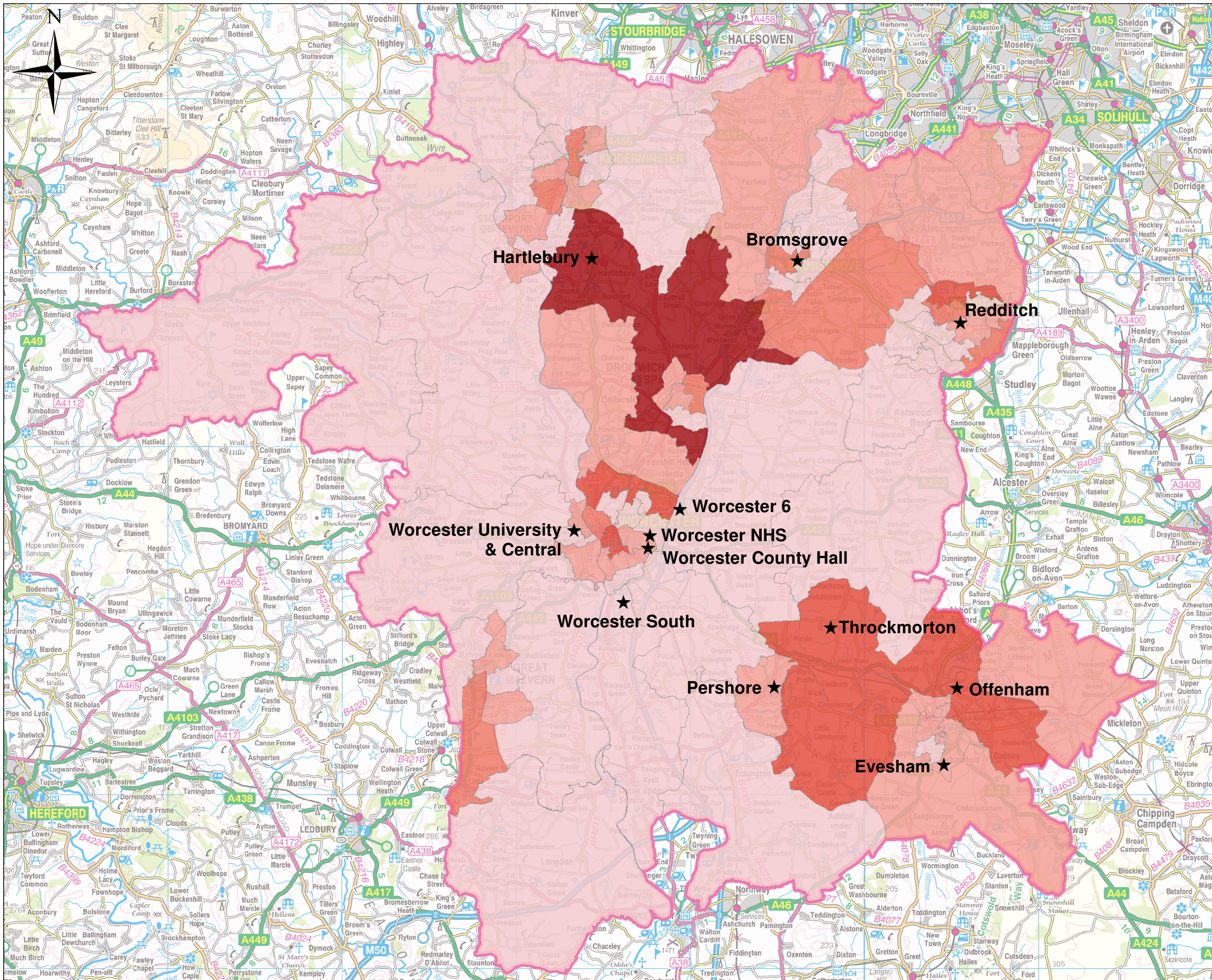
Client
Wychavon District Council

Project
Worcestershire Heat Mapping

Drawing Title
ELECTRICITY CONSUMPTION
MSOA AREA

Drawing No. 4.2

Scale @ A3 : 1:200,000
Purpose : Information



KEY

- ★ PRIORITY SITES IDENTIFIED BY WYCHAVON DC
- WORCESTERSHIRE COUNTY BOUNDARY
- GAS CONSUMPTION
- Non-residential gas Consumption (kWh)
- 5,000,000 - 7,500,000
- 7,500,001 - 20,000,000
- 20,000,001 - 40,000,000
- 40,000,001 - 70,000,000
- 70,000,001 - 250,000,000

Data Source:
Heat Consumption Data from DECC Heat Mapping, MSOA area boundaries from Office of National Statistics under Open Government Licence and the UK Government Licensing Framework.

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Client
Wychavon District Council

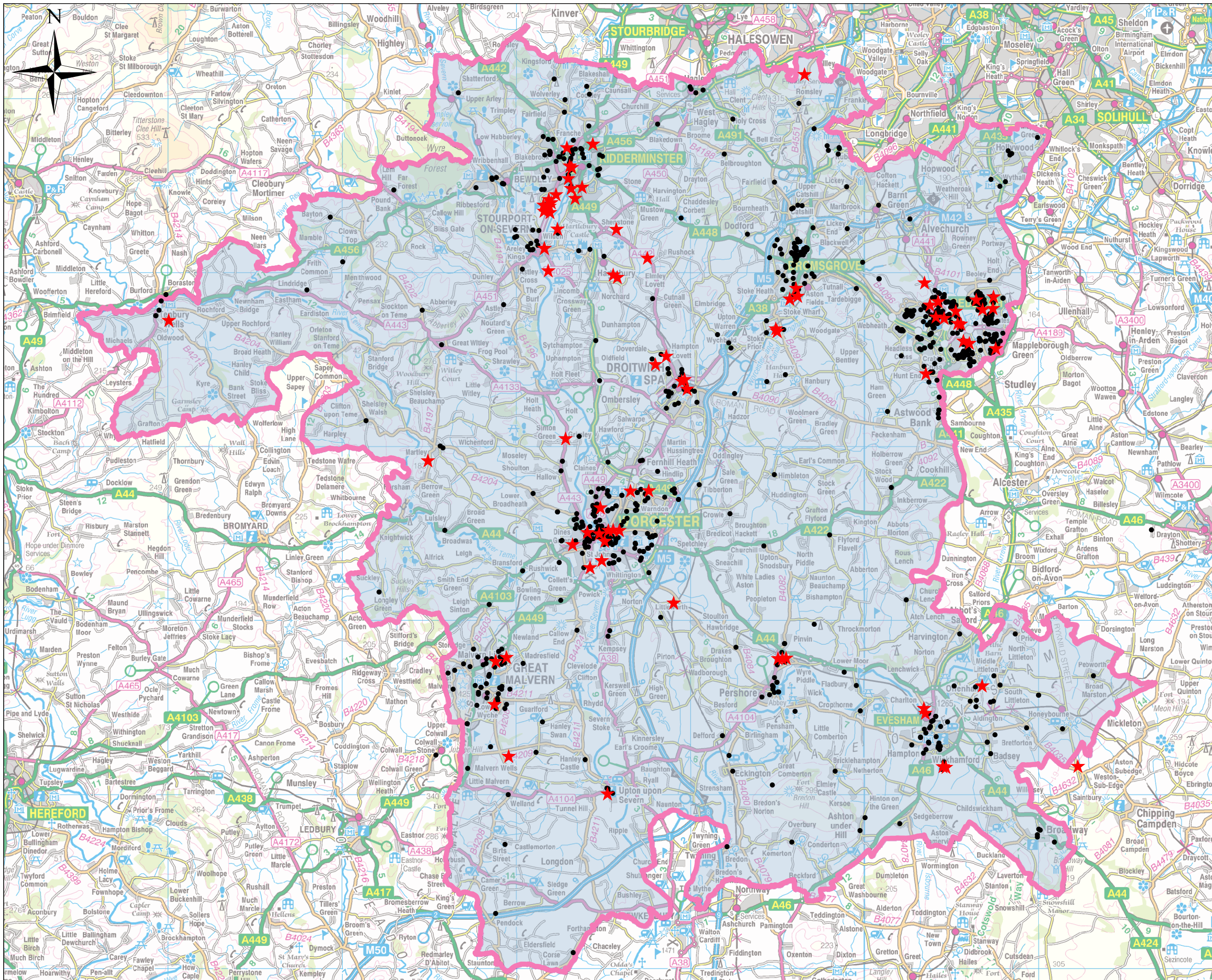
Project
Worcestershire Heat Mapping

Drawing Title
GAS CONSUMPTION
MSOA AREA

Drawing No. 4.3

Scale @ A3 : 1:200,000

Purpose : Information



KEY

Heat Mapping Data Points

- ★ Industrial/Retail Estates
- Individual Sites

A		IW	MK	TE
		04/08/2016	04/08/2016	04/08/2016
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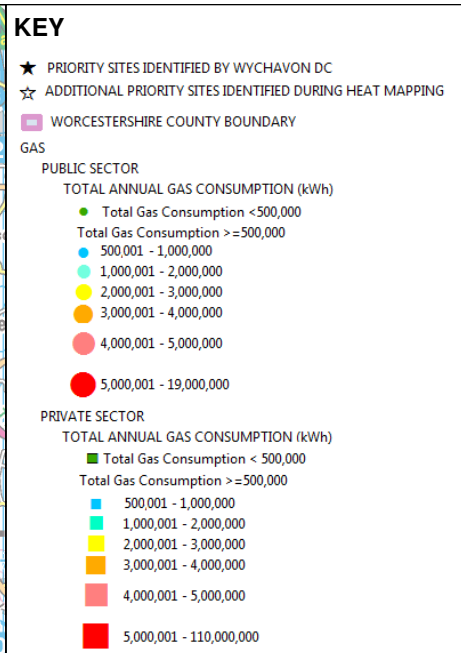
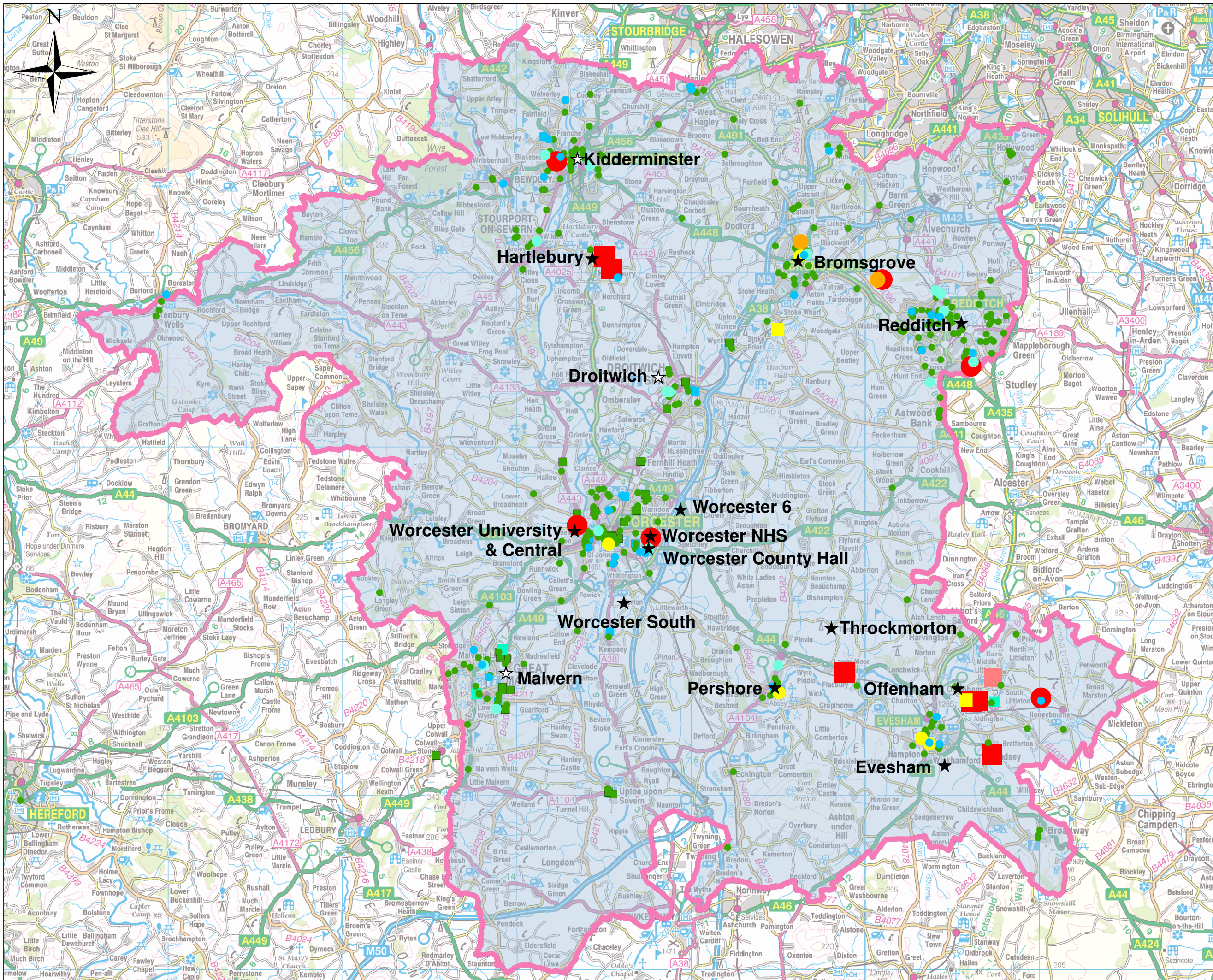
Client
Wychavon District Council

Project
Worcestershire Heat Mapping

Drawing Title
Heat Mapping Data Points

Drawing No. 4.4

Scale @ A3 : 1:200,000
Purpose : Information



A		IW	MK	TE
		04/08/2016	04/08/2016	04/08/2016
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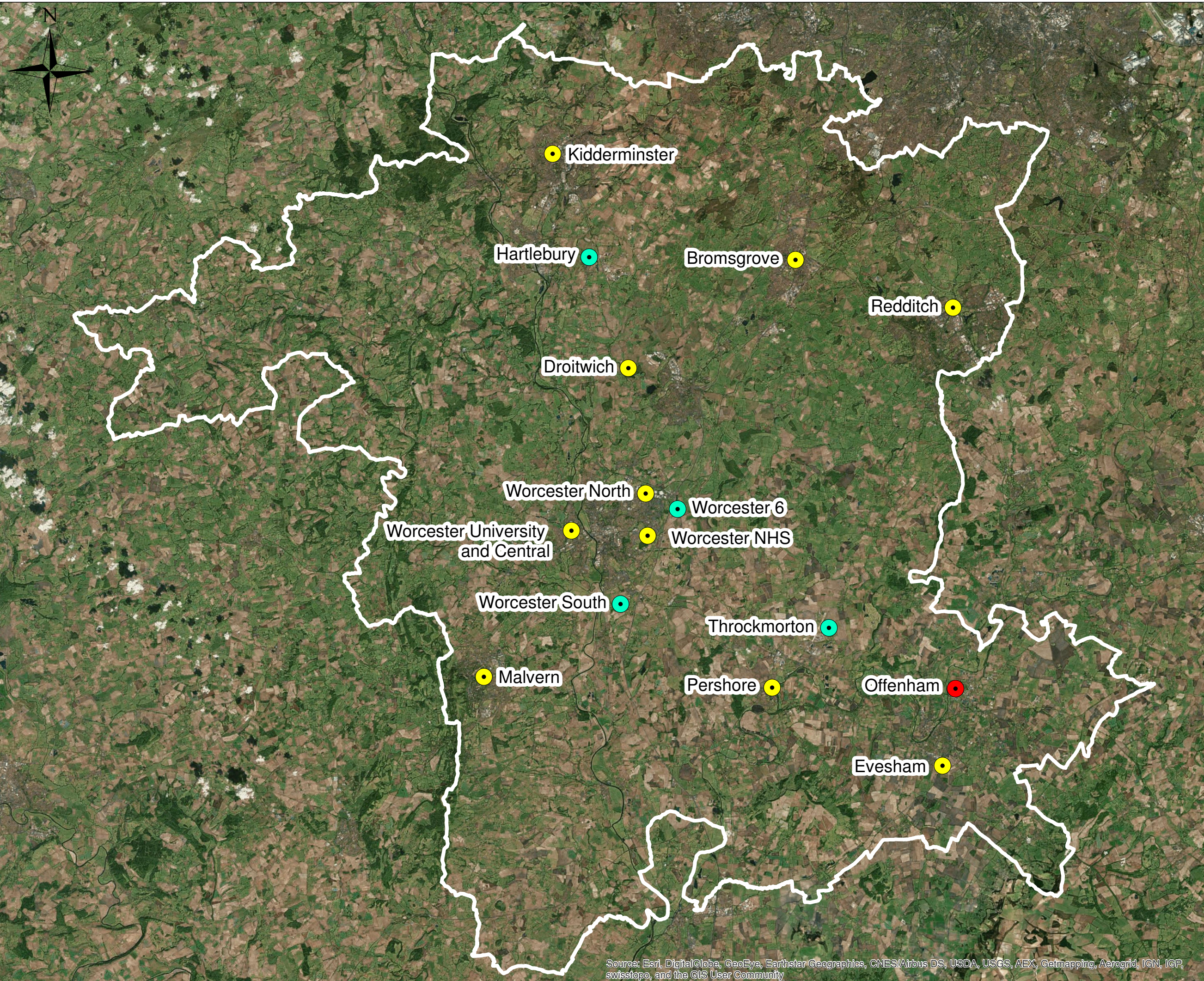
Client
Wychavon District Council

Project
Worcestershire Heat Mapping

Drawing Title
Heat Mapping Data Points and Initial Cluster Identification

Drawing No. 4.5

Scale @ A3 : 1:200,000
Purpose : Information



KEY
Sites Considered for EMP in Phase 1

- Development Sites
- Geothermal Sites
- Urban Areas

A		IW 04/08/2016	MK 04/08/2016	TE 04/08/2016
Ver	Amendments	Originated by and date	Checked by and date	Approved by and date

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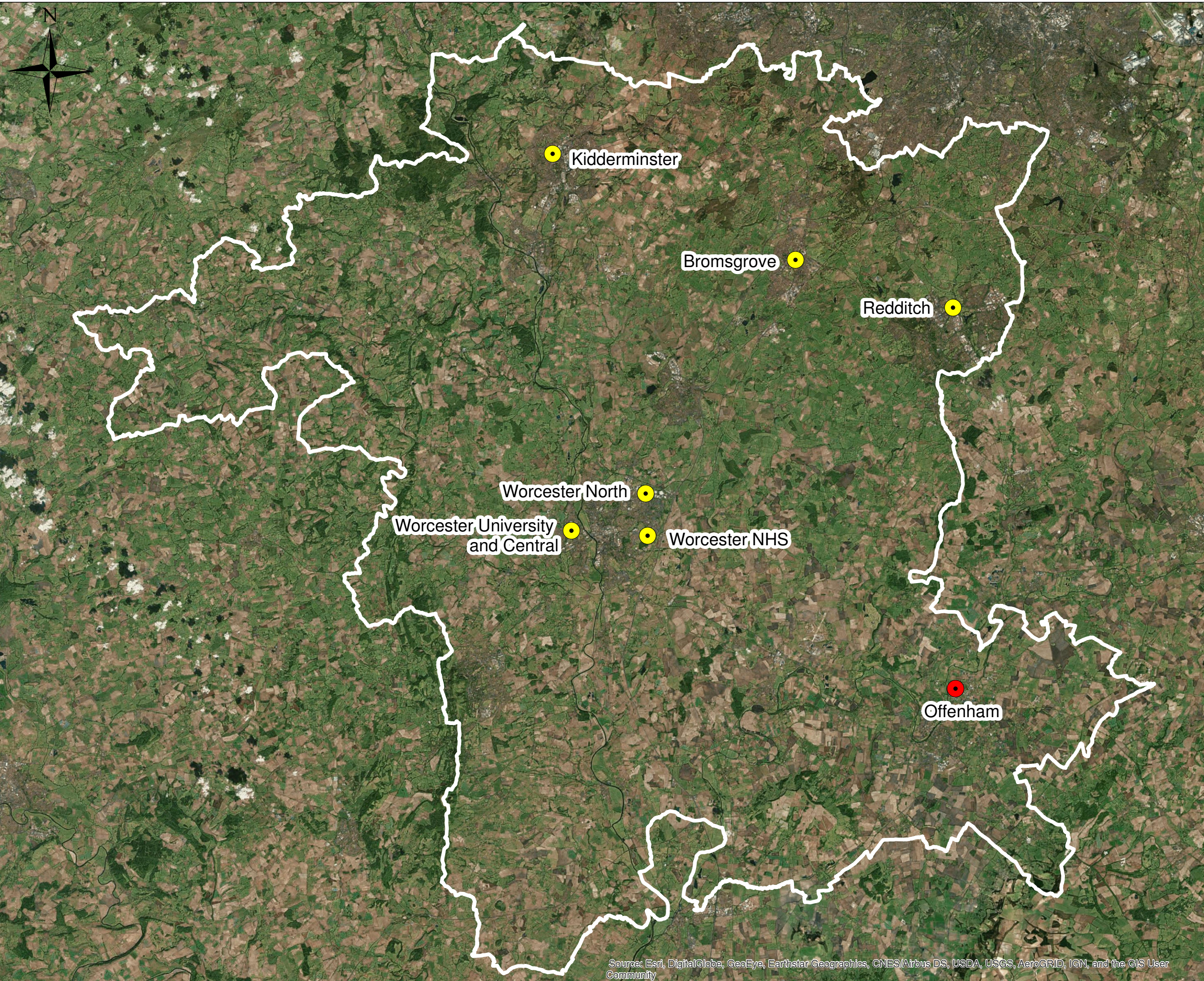
Project
 Worcestershire Heat Mapping

Drawing Title
 Identified Potential Heat Clusters

Drawing No. 4.6

Scale @ A3 : 1:200,000
Purpose : Information

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



KEY

Sites Carried Forward for Detailed EMP

- Geothermal Sites
- Urban Areas

B	Updated Locations	IW 05/01/2017	TE 05/01/2017	TE 05/01/2017
A	First Issue	IW 04/08/2016	MK 04/08/2016	TE 04/08/2016
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Client
Wychavon District Council

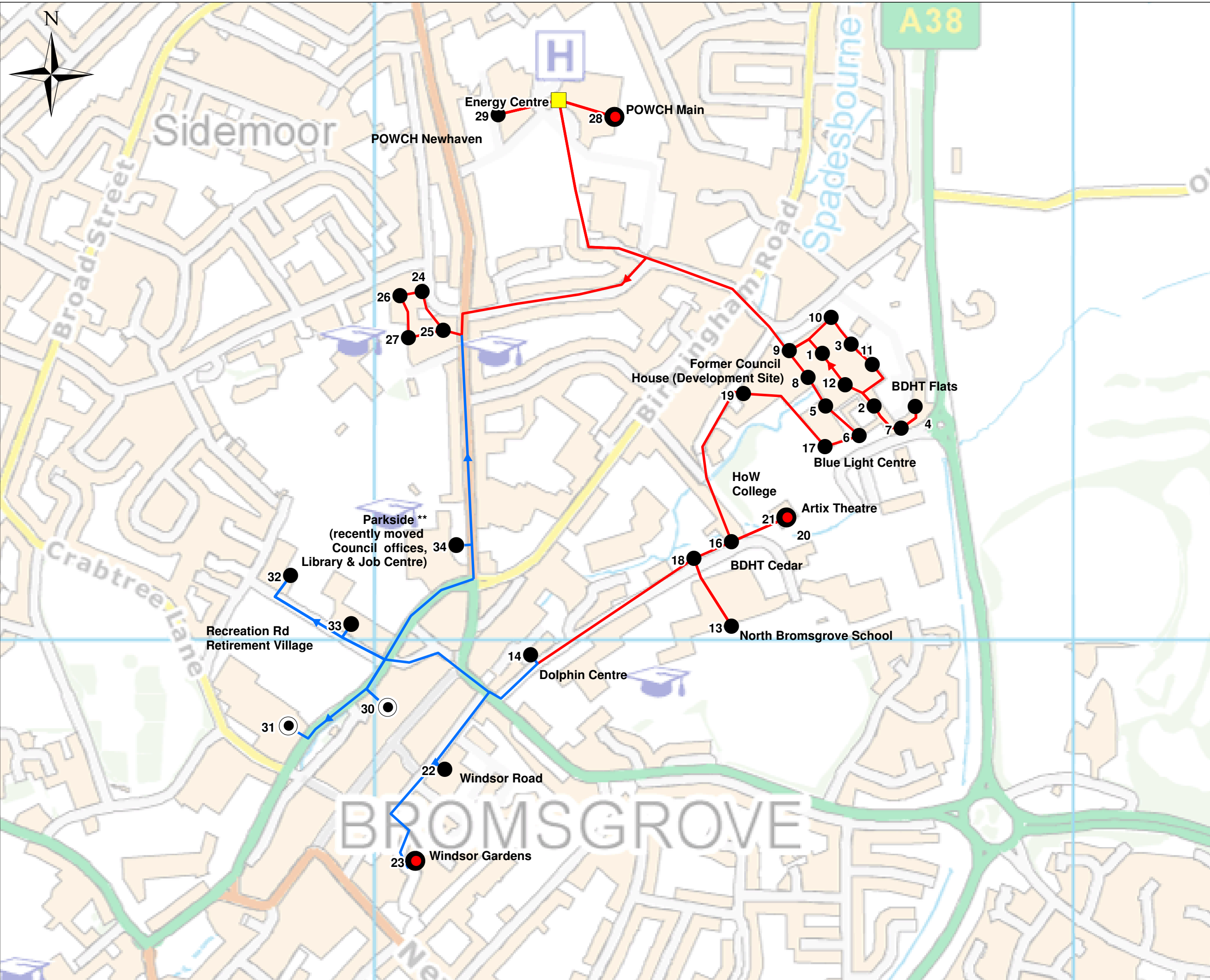
Project
Worcestershire Heat Mapping

Drawing Title
Heat Clusters Taken Forward For Detailed Master Planning

Drawing No. 4.7

Scale @ A3 : 1:200,000
Purpose : Information

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community



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, NHS
1	BDHT Feckenham
2	BDHT Alvechurch
3	BDHT Birmingham
4	BDHT Clent
5	BDHT Crothorne
6	BDHT Dodford
7	BDHT Evesham
8	BDHT Fairfield
9	Former Council House
10	BDHT Grafton
11	BDHT Hagley
12	BDHT Tardebigge
13	School North Bromsgrove
14	Dolphin Centre
16	BDHT Cedar
17	Blue Light Centre
18	BDHT Maple
19	BDHT Shenstone
20	Artrix Theatre
21	HoW College
22	Windsor Road
23	Windsor Gardens
24	School Parkside Middle
25	Council Buildings
26	School Meadows First
27	School Parkside
28	POWCH Main
29	POWCH Newhaven
30	Iceland
31	ASDA
32	Padstone Day Services
33	Recreation Rd Retirement Village
34	Parkside **

** Assessments to be updated with new energy data at feasibility stage

B	Location 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	Checked by and date	Approved by and date

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building great relationships

Client
Wychavon District Council

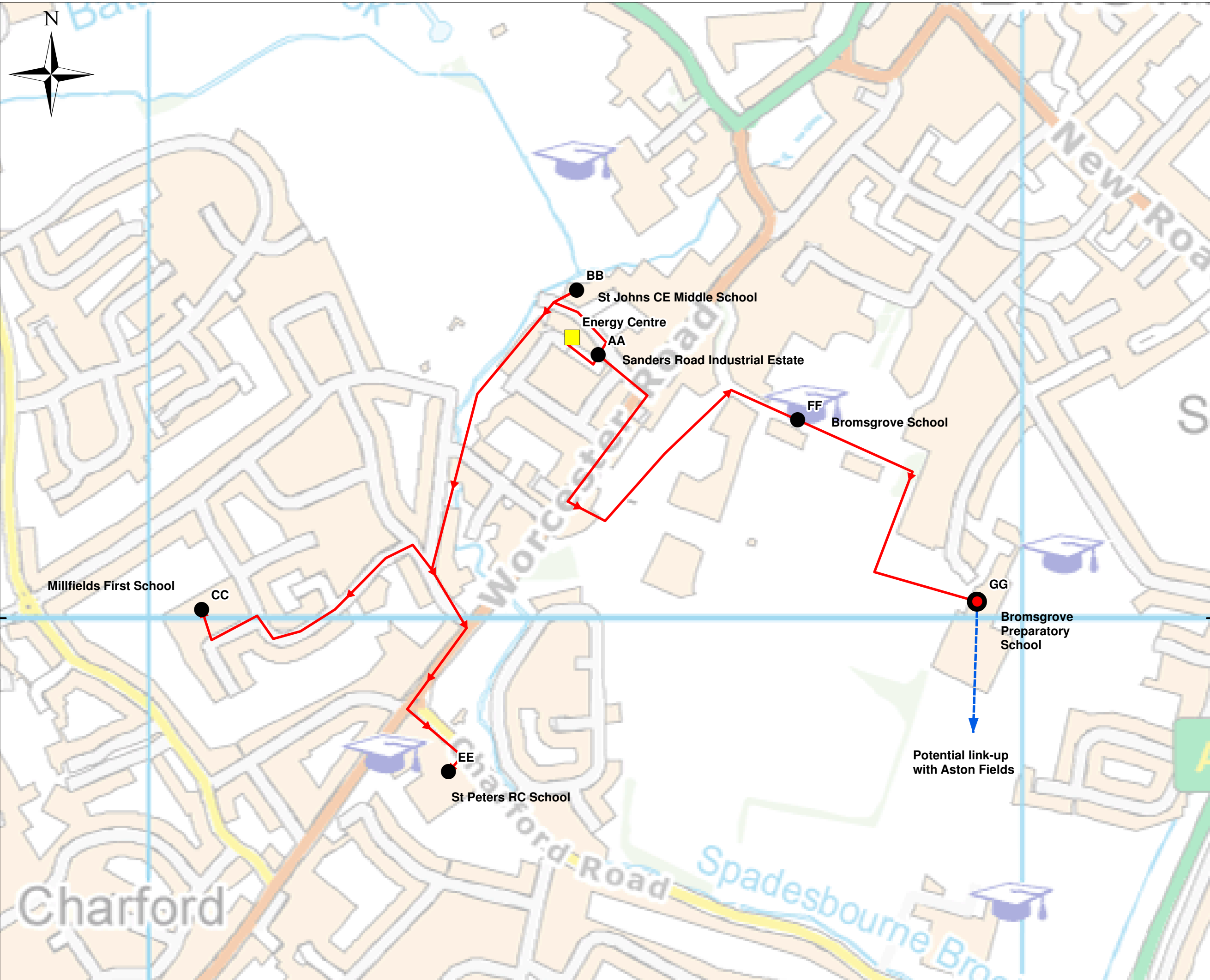
Project
Worcestershire Heat Mapping

Drawing Title
PROPOSED TOWN CENTRE AND NHS DISTRICT HEAT NETWORK, BROMSGROVE

Drawing No.
5.1

Scale @ A3 : 1:5,000

Purpose : Information



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 Identifier	Short Name
Energy Centre	Primary Energy Centre
GG	Bromsgrove Prep
FF	Bromsgrove School
AA	Sanders Road Industrial Estate
CC	Millfields First School
BB	St Johns CE Middle School
EE	St Peters RC School

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

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Client
Wychavon District Council

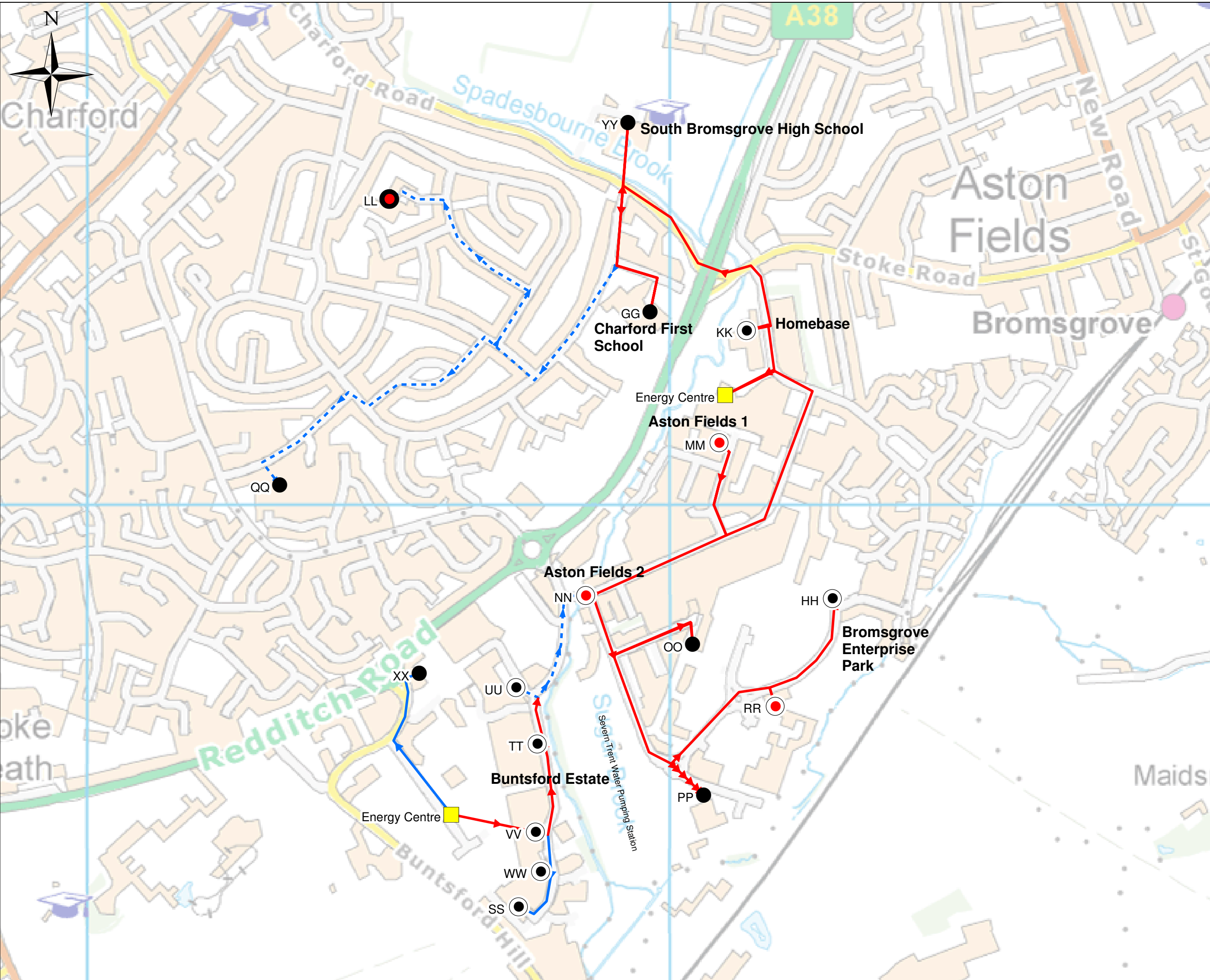
Project
Worcestershire Heat Mapping

Drawing Title
PROPOSED WORCESTER ROAD DISTRICT HEAT NETWORK

Drawing No.
5.2

Scale @ A3 : 1:4,000

Purpose : Information



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 Identifier	Short Name
Energy Centre	Primary Energy Centre, Aston Fields
Energy Centre	Primary Energy Centre, Buntsford
GG	Charford First School
HH	Bromsgrove Enterprise Park (1)
KK	Homebase
LL	BDHT Edwin
MM	Aston Fields Area 1
NN	Aston Fields Area 2
OO	Aston Fields Area 3
PP	Council Depot
QQ	BDHT Gilbert
RR	Bromsgrove Enterprise Park (2)
SS	Buntsford Ind Est
TT	Buntsford Ind Est
UU	Buntsford Ind Est
VV	Buntsford Ind Est
WW	Buntsford Ind Est
XX	BDHT HQ
YY	South Bromsgrove High School

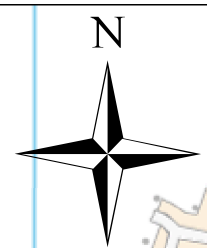
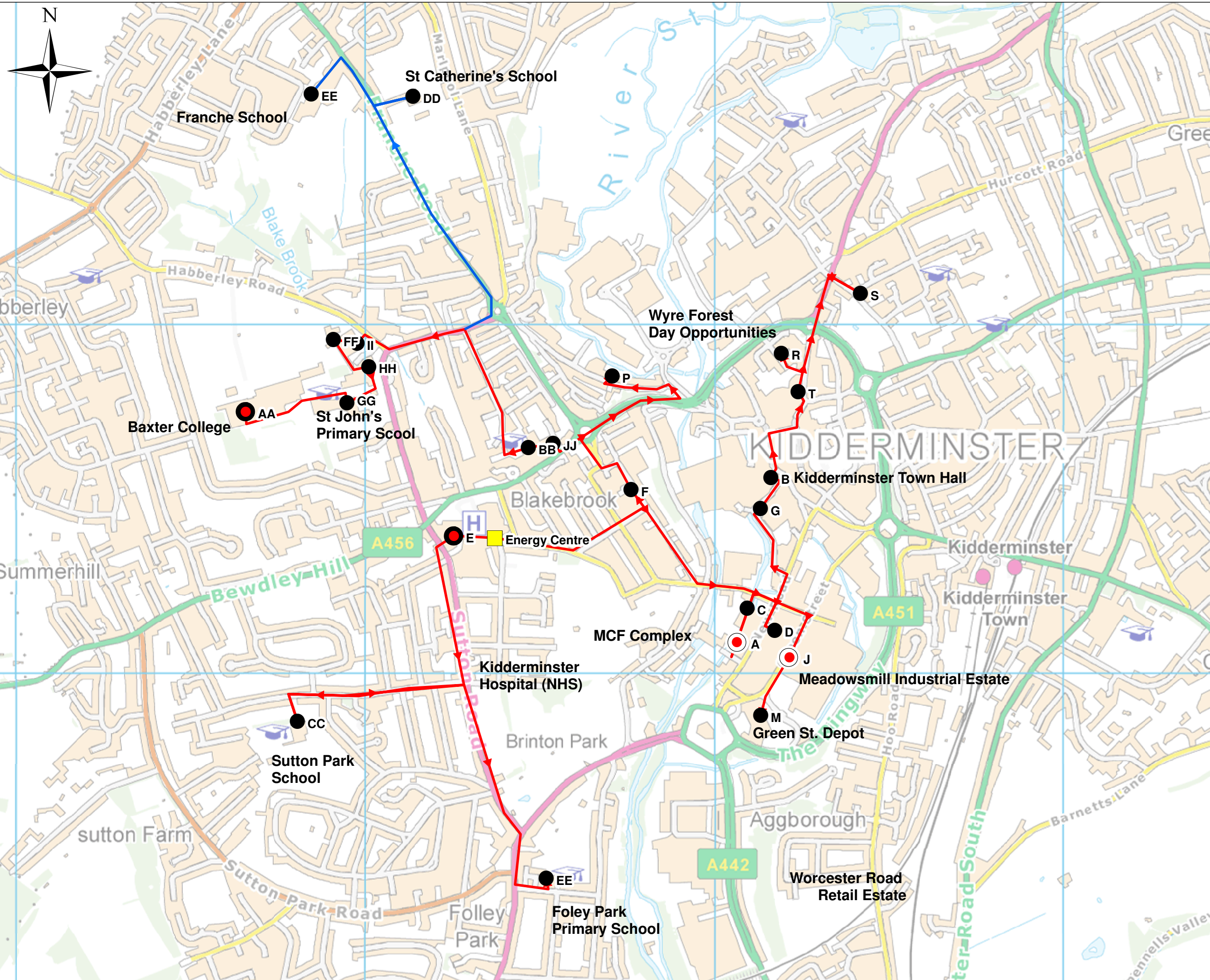
B	Location name updated	IW 05/01/2017	TE 05/01/2017	TE 05/01/2017
A	First issue	J Chapman 09/09/2016	M Kerlake 09/09/2016	M German 09/09/2016
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Client	Wychavon District Council
Project	Worcestershire Heat Mapping
Drawing Title	PROPOSED ASTON FIELDS AND BUNTSFORD DISTRICT HEAT NETWORK, BROMSGROVE
Drawing No.	5.3
Scale @ A3 :	1:6,000
Purpose :	Information



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 Identifier	Short Name
E	Primary Energy Centre, Kidderminster NHS
G	Kidderminster Library
D	John Stretton Memorial Hall
A	MCF Complex
B	Kidderminster Town Hall
M	Green Street depot
J	Meadowmill Ind Est
T	Social Services
S	Hansel & Gretel FSU
R	Day Opportunities
DD	St. Catherines CE Primary
AA	Baxter College
EE	Franche Primary
FF	Haberley Campus
HH	Kidderminster SBU
GG	St. Johns CE Primary
II	Wyre Forest School (Early Years)
CC	Sutton Park Primary
E	Kidderminster Hospital
BB	Wyre Forest School (Bewdley Site)
JJ	Kidderminster County Buildings
C	Fire Station
F	Wyre Forest FSU
P	West Mercia Probation
EE	Foley Park Primary

DRAFT

A		J Chapman 09/09/2016	M Kerlake 09/09/2016	M German 09/09/2016
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Client
Wychavon District Council

Project
Worcestershire Heat Mapping

Drawing Title
PROPOSED CENTRAL DISTRICT HEAT NETWORK, KIDDERMINSTER

Drawing No.
5.4

Scale @ A3 : 1:10,000
Purpose : Information

Path: W:\1070145 Worcestershire heat mapping\09 Documents\GIS\ArcGIS_maps\F\GURE Kidderminster Central Main - Key Sites_JC.mxd