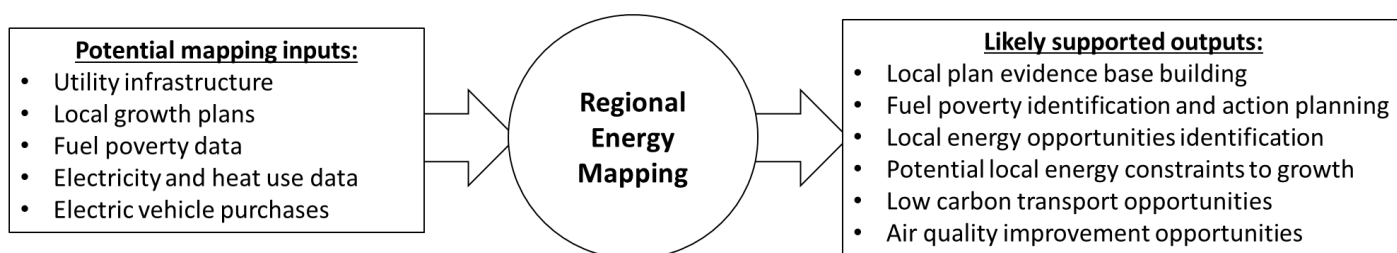


Greater South East Energy Hub - mapping questionnaire

The Greater South East Energy Hub is one of five Energy Hubs funded by the Department for Business, Energy and Industrial Strategy (BEIS) to support the development of local energy projects. The Hub works with Local Enterprise Partnerships (LEPs), local councils and their stakeholders to help increase the number, quality and scale of local energy projects being delivered across England.

One of our projects concerns mapping energy and utilities infrastructure along with the requirements from LEPs and local authorities for regional spatial planning. This work will result in a specification proposal developed by the Hub for a national approach and platform for regional energy mapping. We are investigating current approaches to spatial mapping of energy assets, infrastructure and data. We will use this data to understand needs and common priorities, identify best practice and share lessons learnt. This will be reviewed and informed by the Greater South East Data Mapping Group.

For example, we are looking to understand how data from local plans can be overlaid with electricity grid capacity data to identify any potential issues and provide the opportunity to develop alternative approaches to delivering energy to development sites. We anticipate that this mapping will benefit you in future. The following diagram illustrates some of the potential mapping inputs and likely supported outputs from the work.



We therefore need your help in completing this form to build the picture of local energy mapping activity in your locality. As well as answering the general questions, we are keen to hear about any local mapping initiatives that have been delivered or are in development as well as your ideas and aspirations.

Please pass this questionnaire onto individuals in your organisation that use spatial mapping or service areas whom you think this capability would be of interest.

If you have any queries, would like to join Mapping Group or would like to talk about local energy in your area please do not hesitate to get in touch.

Our Contact Details:

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1. Your contact details?

Name:	Organisation name:
Job title:	Job function:
Service area:	
E-mail:	Phone:
Address:	

2. How do you use mapping systems?

(Tick all that apply)

- I create spatial data maps and use graphical information systems (GIS)
- I use spatial data maps made by others **in** my organisation for analysis purposes
- I use spatial data maps made **outside** my organisation for analysis purposes
- I do not use spatial data maps

3. How frequently do you use mapping systems/their output?

(Please select the most appropriate answer from the drop-down box)

4. What purpose do you use GIS for?

a. Scope of work

(Tick all that apply)

- Local Plan
- Planning new development (housing, industrial, commercial etc)
- Home energy efficiency retrofit/fuel poverty
- Public sector energy efficiency and street lighting replacement
- Business and industrial energy efficiency retrofit
- Energy infrastructure for new development or improvements in construction standards
- Renewable or low carbon electricity generation (Solar, Onshore wind, Offshore wind, Tidal)
- Renewable heat generation (Geothermal, Heat pumps, Biomass, AD and Biogas)
- Electricity distribution network improvements, including smart grids and storage
- Gas distribution network improvements, including works to enable supply of decarbonised gas
- Heat networks, combined heat and power (CHP) generation, energy from waste and industrial heat recovery
- Carbon capture, use and storage
- Transport: energy supply/refuelling for low carbon vehicles/air quality
- Research
- Other *(Please specify)*

b. Objective of work

(Tick all that apply)

- To identify what is already there e.g. existing infrastructure
- To identify new opportunities
- To help plan an already defined project

5. What other purposes does your organisation use GIS data for?

(Tick all that apply)

- Planning new development (housing, industrial, commercial etc)
- Home energy efficiency retrofit
- Public sector energy efficiency and street lighting replacement
- Business and industrial energy efficiency retrofit
- Energy infrastructure for new development or improvements in construction standards
- Renewable or low carbon electricity generation (Solar, Onshore wind, Offshore wind, Tidal)
- Renewable heat generation (Geothermal, Heat pumps, Biomass, AD and Biogas)
- Electricity distribution network improvements, including smart grids and storage
- Gas distribution network improvements, including works to enable supply of decarbonised gas
- Heat networks, combined heat and power (CHP) generation, energy from waste and industrial heat recovery
- Carbon capture, use and storage
- Energy supply/refuelling for low carbon vehicles
- Research
- Other *(Please specify)*

6. What service areas within your organisation:

a. Already use GIS systems and information?

(Please specify)

b. Would like to use GIS systems and information?

(Please specify)

7. What mapping systems software does your organisation use?

(Tick all that apply)

- ArcGIS
- Other commercial software (please specify)
- Opensource software (please specify)
- We do not have a GIS

8. In your Local Plan:

a. What spatial layers/data types/analysis do you have currently available:(Tick all that apply)

- Local plan site allocations
- Land use categories
- Electric vehicle charge points
- Housing
- Social Housing
- Houses in multiple occupation
- Commercial/Industrial
- Recreational
- Green Spaces
- Conservation areas
- Heritage assets
- Landscape designations
- Ecological designations
- Other layers (Please specify)

b. What format do you hold this data? (e.g. pdf, tiff, jpeg, database (with grid reference or postcode))

(Please specify)

c. When was/will your local plan adopted?

(Please specify)

d. When is your next local plan review?

(Please specify)

e. Do you require any energy evidence base studies to support your local plan? (Please select the most appropriate answer from the drop-down box)

If yes, what type of energy evidence:

(Please specify)

9. For your public sector assets:

a. What spatial layers/data types/analysis do you have currently available?(Tick all that apply)

- Public sector assets
 - Land
 - Housing
 - Commercial/industrial
 - Electric vehicle charge points

b. What format do you hold this data? (e.g. pdf, tiff, jpeg, database (with grid reference or postcode))

(Please specify)

10. For energy and other related data areas:

a. What spatial layers/data types/analysis do you have currently available?

(Tick all that apply)

Electricity and Heat Generation:

- Low-carbon electricity generators (PV, onshore wind, hydro, offshore wind)
- Fossil fuel power stations
- Combined heat and power plants
- District heating
- Feed-in tariff installations

Electricity Networks:

- Electricity transmission network
- Substations
- Other network information
- Battery energy storage locations
- Flexibility service requirement areas

Gas Network:

- Gas transmission network
- Gas Sites
- Gas Connections/Off gas grid

Water and waste:

- Water/Sewage sites
- Landfill sites and grid connections

Socio-economic Indicators:

- ECO measures
- Fuel poverty
- Domestic electricity consumption
- Energy performance ratings
- Energy supplier switching rates

Energy Demand:

- Major housing and commercial developments
- Major road network developments
- Major heat loads
- Enterprise zones
- Non-domestic electricity consumption

Transport:

- Electric vehicle charging points
- Car park/Park and Ride Locations

Other:

- Air quality management areas
- Wood land

b. Are there any other layers you feel are useful for local energy purposes?

(Please specify)

c. What format do you hold this data? (e.g. pdf, tiff, jpeg)

(Please specify)

11. What data or other information would you like available to map or analysis would you like to be able to carry out that you currently cannot do?

(Please specify)

12. Data sharing

a. **Is it likely that you would be able to share data within the public sector for a regional mapping project?** (This could involve contribution of data or mapping layers.) *(Please select one option below)*

<i>Almost certainly contribute</i>	<i>Very like contribute</i>	<i>Maybe contribute</i>	<i>Not likely to contribute</i>	<i>Almost certainly not contribute</i>	<i>Do not know</i>
-	-	-	-	-	-

b. **Please explain the likely types of data you might consider sharing:**

(Please specify)

13. What are likely to be the main barriers to your organisation participating in data sharing?

(Please select as many as are applicable)

- Lack of time from suitable staff
- Lack of suitable staff
- Concern about data security
- Concern about confidentiality
- Concern about any costs
- Other, please specify

14. Would you be likely to use the following information as spatial mapping if made freely available in one tool?

(Please select one option per row below)

	<i>Almost certainly use</i>	<i>Very like use</i>	<i>Maybe use</i>	<i>Not likely to use</i>	<i>Almost certainly not use</i>	<i>Do not know</i>
Electricity and Heat Generation (Assets):	-	-	-	-	-	-
Electricity Networks:	-	-	-	-	-	-
Gas Network:	-	-	-	-	-	-
Water and waste:	-	-	-	-	-	-
Socio-economic Indicators:	-	-	-	-	-	-
Energy Demand (types of users):	-	-	-	-	-	-
Transport (e.g. EV charging):	-	-	-	-	-	-
Your own public sector assets:	-	-	-	-	-	-
Your own local plan information:	-	-	-	-	-	-

15. Would you be likely to purchase a licence for the following information as spatial mapping in a tool?

(Please select one option per row below)

	<i>Almost certainly use</i>	<i>Very like use</i>	<i>Maybe use</i>	<i>Not likely to use</i>	<i>Almost certainly not use</i>	<i>Do not know</i>
Electricity and Heat Generation (Assets):	-	-	-	-	-	-
Electricity Networks:	-	-	-	-	-	-
Gas Network:	-	-	-	-	-	-
Water and waste:	-	-	-	-	-	-
Socio-economic Indicators:	-	-	-	-	-	-
Energy Demand (types of users):	-	-	-	-	-	-
Transport(e.g. EV charging):	-	-	-	-	-	-

16. Would you be likely to be able to contribute your data if that data was held:

(Please select one option per row below)

	<i>Almost certainly contribute</i>	<i>Very like contribute</i>	<i>Maybe contribute</i>	<i>Not likely to contribute</i>	<i>Almost certainly not contribute</i>	<i>Do not know</i>
By a public sector body	-	-	-	-	-	-
By a joint venture	-	-	-	-	-	-
By a private company	-	-	-	-	-	-
By a charitable organisation	-	-	-	-	-	-

17. Does your organisation have photovoltaic panels installed on assets it owns or manages?

(Please select the most appropriate answer from the drop-down box)

If your organisation does have photovoltaic panels installed:

- a. Does it have metering installed to monitor the energy that they generate?
(Please select the most appropriate answer from the drop-down box)
- b. Is the metering data monitored, for example by a building management system or by a smart metering portal?
(Please select the most appropriate answer from the drop-down box)
- c. Does anyone refer to the data to monitor the performance of the system?
(Please select the most appropriate answer from the drop-down box)
- d. Does anyone refer to the data to optimise the performance of the system, for example, determine when invertors require replacement or adjust panel orientation?
(Please select the most appropriate answer from the drop-down box)

18. Would you like to be kept informed on the progress of the project?

(Please select the most appropriate answer from the drop-down box)

19. Finally, is there any additional information you would like to add? This could be about your use of GIS mapping - can you tell us about any local mapping initiatives that have been delivered or are in development? Do you have any suggestions for our project or ideas and aspirations for local energy mapping? Questions or comments are also welcome.

(Please specify)

Thank you very much for taking the time to fill out this form!

Please save your answers and click the button below to submit this form:

or e-mail the saved version to: Erica.sutton@energyhub.org.uk