

The National Heat Map

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Agenda

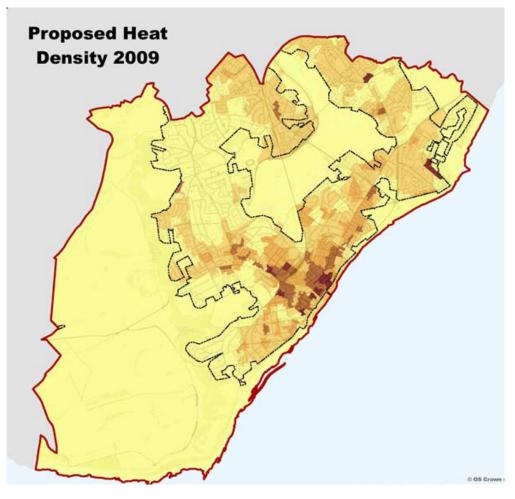


- Why heat maps are so great
- Why a National Heat Map is even better
- Sneak preview
- Feedback

Why heat maps are so great



"Low carbon heating is circumstantial"



- Different buildings have different circumstances:
 - Heat demand density
 - Potential heat sources
 - Existing heat networks
 - Other buildings in the area
- This makes low carbon heating a very local issue

Why heat maps are so great



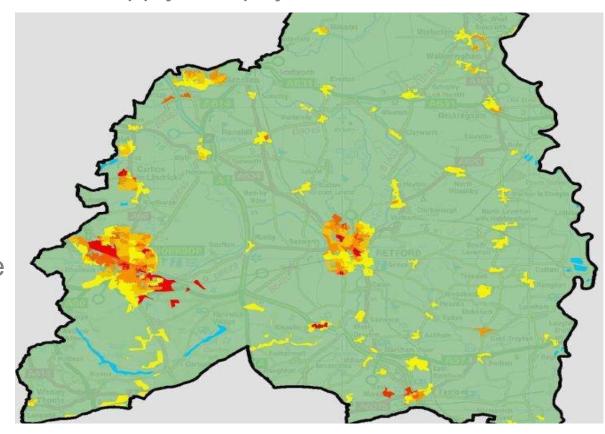
A heat map is a spatial plan of heat demand density.
 Starting point to developing detailed Energy Master Plans

With info on building type, heat supply and physical

constraints...

Planners can see
 focus areas with the
 highest potential for
 district heating
 network development

 Planners can see where other technologies are more suitable



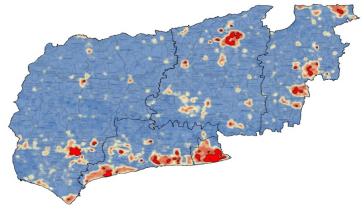
Why heat maps are so great

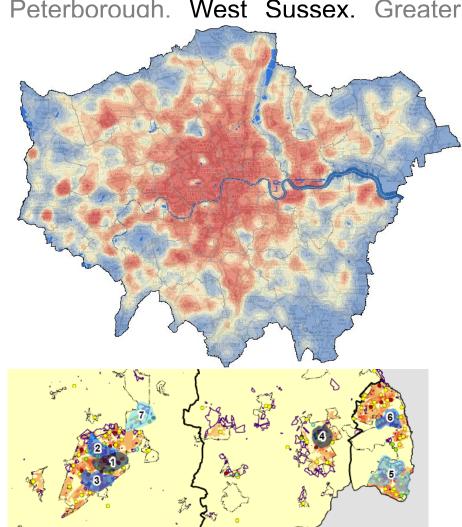


They have been used effectively by: North Hampshire, Eastbourne, Cornwall, Stockport, Bassetlaw, Harrogate, Hull, Peterborough. West Sussex. Greater

London...



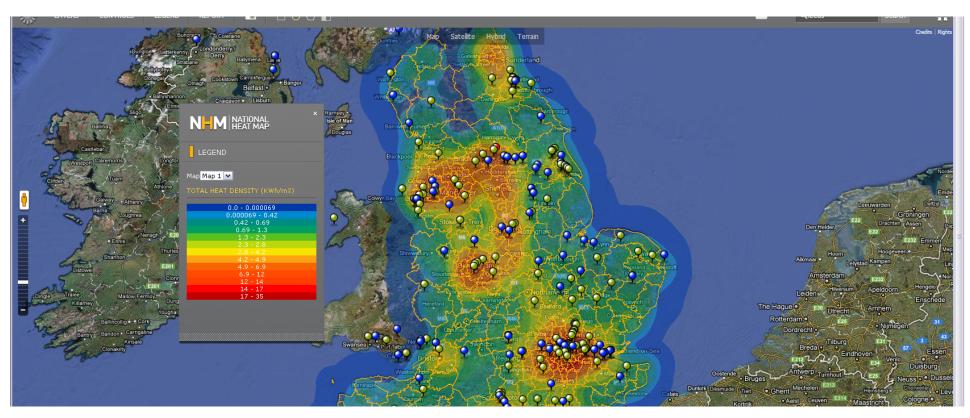




The National Heat Map



DECC has developed a National Heat Map that shows heat demand density for the whole country.



The map is a comprehensive database of heat demand density, equipped with a range of tools to help developers and planners identify priority areas for low carbon heat projects.

Benefits

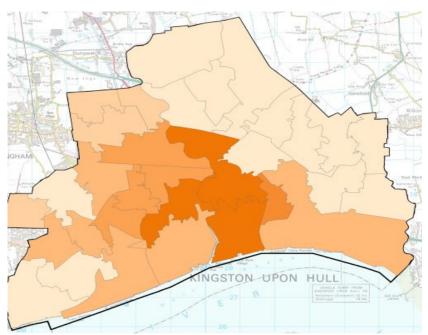


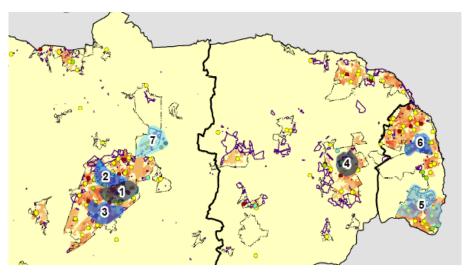
Why a national heat map?

- Value for money
- £10-60k per LA
- £4-20 million for England (piecemeal)
- £150,000 National Heat Map
- In reality, many local authorities would not undertake mapping exercises
- Finer granularity than any other map (individual buildings)
- Groundbreaking model, national datasets

Benefits

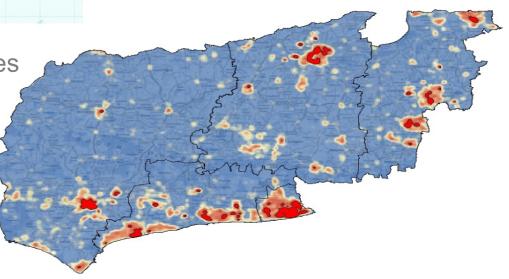






Cross border opportunities

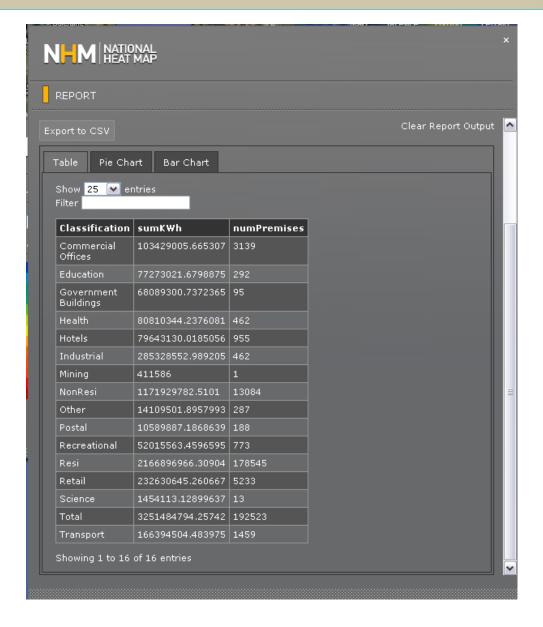
Consistent mapping



Functions



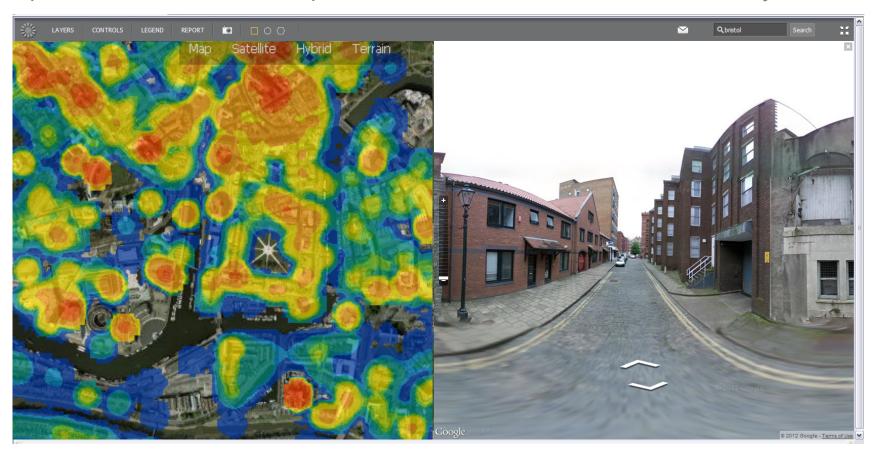
 Generate reports on selected areas to give you accurate heat demand information and sectoral breakdown



Functions



- Zoom in on particular areas to examine individual buildings, and use the street view function to help identify building types
- Split screen function to compare areas, or view an area in different ways



Functions



- Supports business case for feasibility studies
- Evidence base to jump start feasibility studies
- Generate discreet URL to save your research



Summary



The National Heat Map is a comprehensive spatial plan of heat demand density, equipped with a range of tools to help developers and planners identify priority areas for low carbon heat projects.

http://ceo.decc.gov.uk/nationalheatmap

Benefits of a National Heat Map	
Value for money A fraction of the cost of individual LA maps	Detailed reporting Sectoral breakdown of buildings and heat demand
Precision and accuracy Zooms in to reveal heat demand density of individual streets and buildings	Split screen function Examine different data side by side, or compare locations
URL generator Save your investigations and share findings instantly	Google API User friendly and familiar to use
National datasets Based on more complete datasets than any other map of its kind	Groundbreaking model Developed by CSE and peer-checked by DECC Statistics and industry experts: "absolutely fantastic " (CIBSE)
Consistent mapping Allows consistent analysis of the entire country	Cross-border opportunities Neighbouring LAs can identify projects for collaboration

Feedback



http://ceo.decc.gov.uk/nationalheatmap

National.heat.map@decc.gsi.gov.uk

"I think the heat map is a fabulous resource... I would love to see something like this developed here in Hungary!" Institute for World Economics "A great tool"!
Ecoliving Surrey & East
Hampshire

"Absolutely fantastic"! CIBSE

"The most advanced map of its kind"!

Click Green

"Pleased to see that the **National Heat Map** has now been published"! AEA Technology



http://ceo.decc.gov.uk/nationalheatmap? stateID=5a47f1103612b2971dbb60a41226ec9e

http://ceo.decc.gov.uk/nationalheatmap? stateID=1ea5b84f7ae4d66c03eb44cfc7a112cf

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Tasks



In groups of two or three, look at the following locations (you can look at all three or focus on one/two if you prefer:

- Pall Mall Court, Manchester
- Trafford Park, Manchester
- MD 79B

Use the National Heat Map to asses each location (you can decide how far to extend your assessment from the centre of the location search). Try to discuss and answer the following questions:

- What is the heat demand density of the area?
- What is the sectoral mix like?
- Are there any existing heat sources in the area?
- What difficulties might be met in building a heat network here?
- If you built a heat network here, what would you include, and where would you draw the boundaries?