



# Support available to CHP developers and operators under CHP Focus

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# Topics Covered

- What is CHP Focus?
- What are CHP Focus activities?
- What are the benefits of CHP Focus?
- CHP Focus helpline.
- CHP Focus website.



# What is CHP Focus?

- CHP Focus is a DECC funded initiative
- Free at the point of use
- Established in 2008



OBJECTIVE: TO SUPPORT DEVELOPMENT OF CHP



# CHP Focus Activities

- Promotion – “CHP the flexible option”
- Education – Events, seminars & workshops
- Information – Comprehensive unbiased website
- Tools Development – Web applications & online tools



# CHP Focus benefits

- Workshops – Previous workshops on CHP in industrial, Health and Education sectors – 2013 watch this space!
- Website – Modern, accessible site including latest CHP news
- Helpline – Free expert advice





# CHP Focus website -

<http://chp.decc.gov.uk>

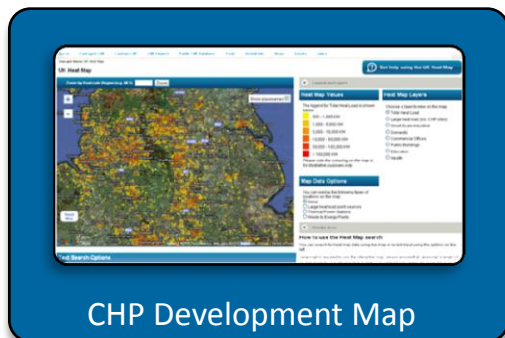
- Over 300 pages of information
- Includes sections on:
  - Finance
  - Project development
  - Environment
  - Technologies



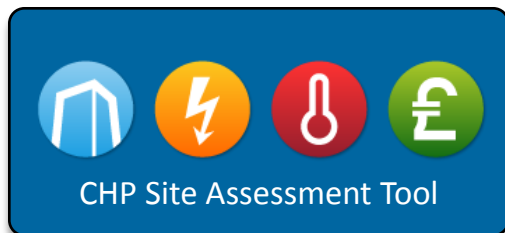
**SEARCH: CHP FOCUS**



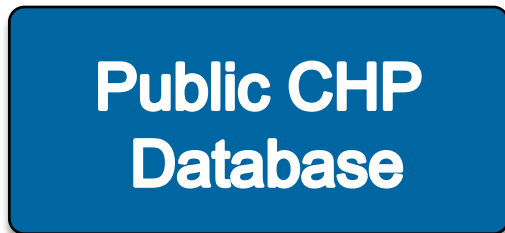
# Website Tools



CHP Development Map



CHP Site Assessment Tool



Public CHP  
Database

- Interactive, dynamic CHP Development Map
- Simple web base tool
- Can model packaged CHP systems
- Database of operational CHP
- Search by Region, CHP type, Sector



# CHP Development Map

**UK CHP Development Map**

Select Area | Radius Search | Draw Shape | Polygon View

Map View | Satellite & Labels | Satellite

Cancel current tool  
Clear map  
Toggle fullscreen  
Search Buffer 1 Km  
Note: 20Km is maximum allowed for this search tool

Results Area

Sector Totals | Large Heat Load Sites (0)

The table below shows the sector totals within your search area.

The sector total results below are from:  
Birmingham D47, Birmingham D49, Birmingham D50, Birmingham D53, Birmingham D59, Birmingham D60, Birmingham D68

Sector Name	Share	Total KW
Communications and Transport	0.94%	3,570 KW
Commercial Offices	11.11%	42,140 KW
Domestic	44.22%	167,668 KW
Education	3.55%	13,457 KW
Government Buildings	8.31%	31,515 KW
Hotels	6.41%	24,288 KW
Health	7.55%	28,621 KW
Other	2.63%	9,961 KW
Small Industrial	3.38%	12,816 KW
Prisons	0.82%	3,102 KW
Retail	4.64%	17,584 KW
Sport and Leisure	1.72%	6,517 KW
Warehouses	4.73%	17,931 KW
<b>Total heat load in Area</b>		<b>379,169 KW</b>

Download this search result data as a Microsoft Excel File

- CHP Development map has UK wide coverage
- Tool allows CHP developers to search for heat loads in specific areas

## CHP Map includes:

- Refined and updated heat load data;
- Greater zoom resolution;
- Radius and Area Search tools;
- Ability to search on local authority level and middle and low level output layers providing greater search resolution.





# CHP Site Assessment Tool

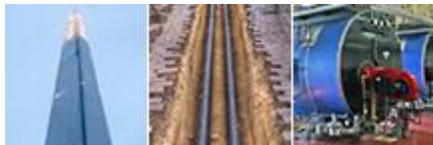
Building Name: AEA  
 User Name: Ben Sang  
 Today's Date: 16 November 2011  
 Building Sector: Leisure Centre  
 Building Floor Area (m<sup>2</sup>): 10,000  
 Building Region: North West

Technically Feasible: **YES**  
 Cost Effective: **YES**

Units	Option 1	Option 2	Option 3	Option 4	Option 5
Technology	Reciprocating Engine	Reciprocating Engine	Reciprocating Engine	Reciprocating Engine	Reciprocating Engine
CHP Capacity	500	150	175	125	100
Electricity Generated	2,490	789	800	695	609
Useful heat Recovered	1,270	1,200	1,242	1,116	917
CHP Fuel consumption	7,152	2,459	2,580	2,248	2,032
Primary Energy Savings	1,094	1,218	1,181	1,068	796
CHP Capital Costs	£491,000	£176,000	£201,000	£151,000	£125,000
Annual Cost Savings	£137,000	£66,000	£66,000	£58,000	£50,000
NPV	£6873,000	£396,000	£384,000	£344,000	£297,000
Payback Period	3.6	2.7	3.0	2.6	2.5
CO <sub>2</sub> Saving against all fossil fuels	566	362	356	321	280
	31 %	19 %	19 %	17 %	14 %
CO <sub>2</sub> Saving against all fuels including renewables and nuclear	195	238	231	212	165
	12 %	15 %	15 %	13 %	10 %
CO <sub>2</sub> Saving against modern CCGT	60	196	187	175	132
	4 %	13 %	13 %	12 %	9 %

Note: For entries shown in red and marked as not viable in the table above, this is due to them having a negative NPV at the discount rate you selected and they are therefore not cost effective on this basis. However the payback period should also be considered.

- Simple and intuitive to use
- Allows users to assess the viability of CHP
- For a given site it provides the 5 best options showing their:
  - CHP capacity,
  - Capital cost,
  - Payback period,
  - Net Present Value,
  - Cost savings &
  - Primary energy savings
- Login facility allows registered user to save scenarios



## CHP Outreach Workshops

### Programme Title: Reducing Energy Costs with Combined Heat & Power

- 1. London: Tuesday, 10th  
December 2013*
- 2. Birmingham: Thursday, 16th  
January 2014*
- 3. Liverpool: Tuesday, 28th  
January 2014*

### The day will cover:

- **Benefits of CHP** (with speakers from)
  - CHPQA Programme,
  - BRE and
  - DECC - Heat Network Delivery Unit
- **A workshop Sessions**
- **CHP Case Studies**
- **A CHP site visit**



# CHP Focus helpline

- Specific Expert Advice
- Local call rate number
- Referral to appropriate contacts for more detailed information where necessary.



**0845 365 5153**



# Contact us

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