

The biosphere is being wrecked, we are on a trajectory to a 'worst case climate change scenario' and our leaders are failing us.....

Meanwhile in other news:

AECB is stable at c.1400 members – put off major membership drive in favour of supporting existing membership through hard / uncertain times

Local groups appear to be doing well – Jo Saady/Debbie Mauger

AECB profile has risen – AECB members remain very active, contributing thinking, experimental projects and examples of applying best practice

Passivhaus Trust (AECB subsidiary company) and CarbonLite training doing well

AECB has been investing in the organisation – staff, website, membership database

AECB developing plans to develop support for membership into new areas (existing buildings)

AECB 2012 Annual Conference

Never Mind The Green Wash

28-29 June 2012 • Goldsmiths University, London

AECB Updates

AECB staff – all part time



Sally Hall
Finance & Administration
Officer (and joint Founder)



Andy Simmonds
Chief Executive



Gill Rivers
Business Operations
Manager



Debbie Mauger
Local Groups Co-ordinator



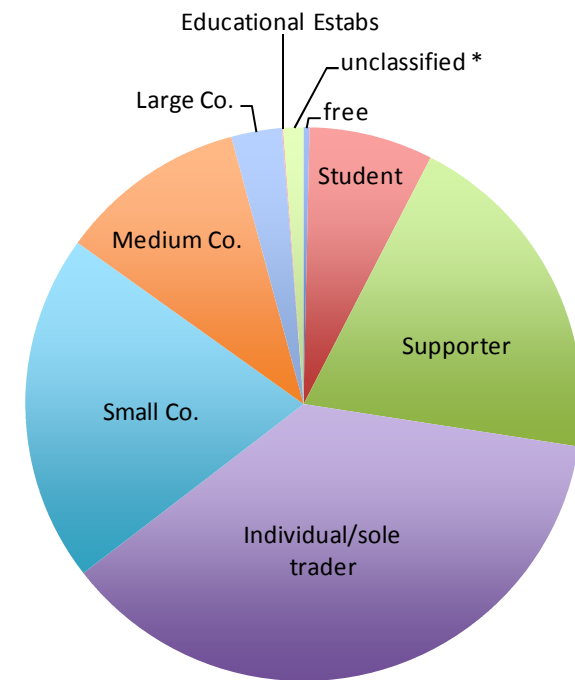
Emma Furniss
Membership
Administrator
& Website Sub
Editor



Simon Kember
Website Administrator &
re-developer,
LEBd database
manager

AECB is stable at c.1400 members

Category	May-12
free	5
Student	103
Supporter	284
Individual/sole trader	530
Small Co.	290
Medium Co.	156
Large Co.	42
Educational Estabs	1
unclassified *	17
total **	1428



By category

A small - but perfectly formed - membership of leading people & organisations

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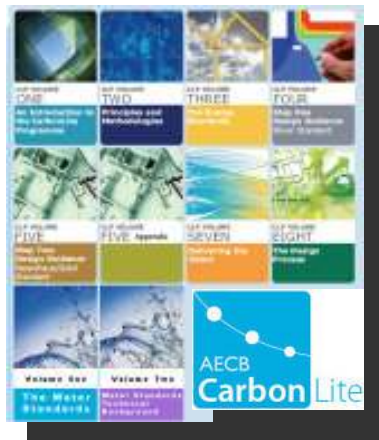
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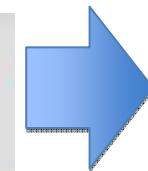
AECB Updates

AECB profile has risen – AECB members remain very active, contributing thinking, experimental projects and examples of applying best practice

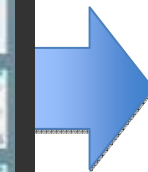
CARBONLITE - NEW BUILD



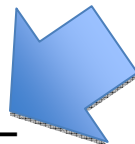
Delivered by



NEW FEATURES



SILVER
CERTIFICATION



CARBONLITE
RETROFIT
PROGRAMME

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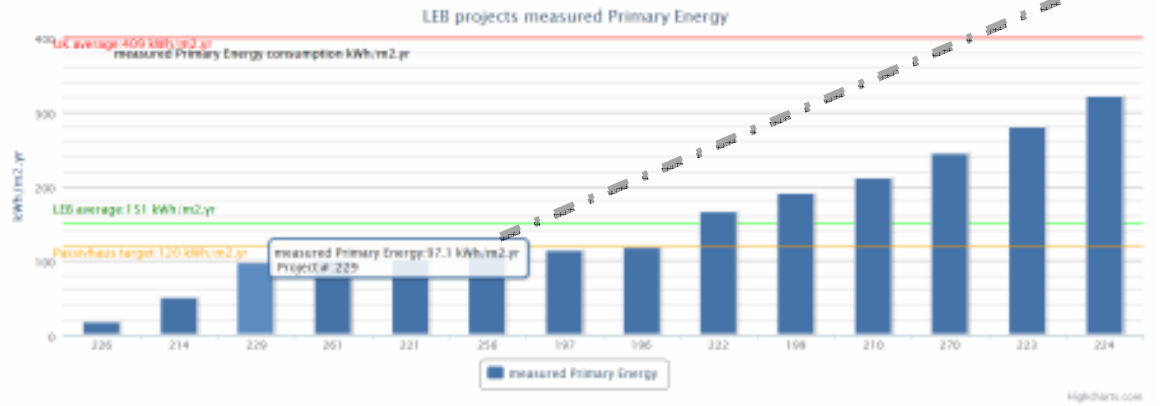
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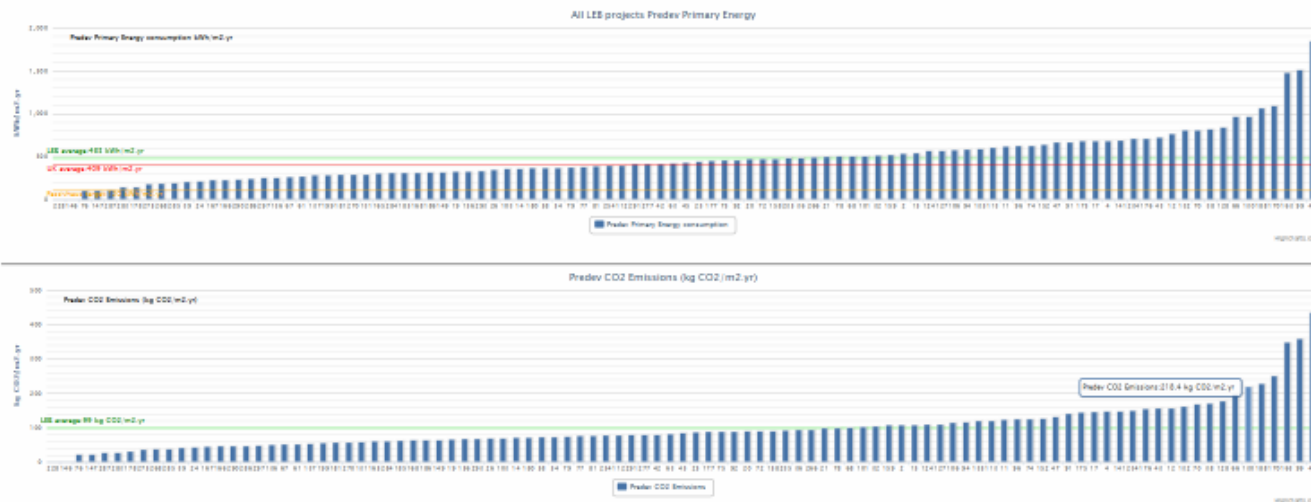


NEW FEATURES

Click and drag in chart to zoom in
 Click column to see full project data (opens in new window)



Click and drag in chart to zoom in
 Click column to see full project data (opens in new window)



Simon Kember will be checking for data quality, measurement updates & liaising with R4F, EST and BRE



Projects will be featured on rotating basis if 12 months performance data entered.

Guest blogs

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AECB Updates

SILVER CERTIFICATION - PROCESS

- Login to existing projects
- Manage certifications
- Choose project

You can log-in to your account here

User Name [Forgot Password](#)

Password [New Password](#)

	RetroPHit 12 -	30 Mar 2012	draft		PDF	View Charts
	The GreenBase	30 Jan 2012	published		PDF	View Charts
	The Rectory	07 Feb 2012	draft		PDF	View Charts

Projects marked 'Draft' are not viewable by the public. You can toggle the relevant Draft/Publish status by clicking it

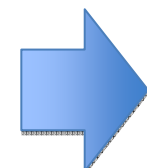
AECB Silver Standard Certification

AECB Silver Certification is a self-certification scheme open to building projects that meet the AECB Silver Standard design and performance criteria. [Read more about the AECB Silver Standard and Certification](#)

Apply for, and manage, your AECB silver certificates

AECB Silver Standard Certification

Project	Status
Brook	Certification Evidence Not Complete
Caltech	Certification Not Started
Centre	Certification Not Started
Centre	Certification Not Started
Grove	Certification Not Started
RetroPHit	Certification Not Started



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SILVER CERTIFICATION – PROCESS

get involved in quality control and legal matters. This approach puts the responsibility for performance claims clearly with the person signing a duty of care on the client to ensure that the consultant is competent and suitably insured.

AECB Silver Performance

Background to the Silver Standard
 Whilst in the UK, a prescriptive standard might be sufficiently robust, a prescriptive standard can be achieved where a building that is designed and constructed in accordance with current Passivhaus PHPP¹ in accordance with current Passivhaus Standard.

Parameter	Target
Delivered Heat and cooling	≤ 40kWh/(m ² ·a)
Primary Energy demand	120 Wh/(m ² ·a)
Air tightness (n50)	≤ 1.5 h ⁻¹ (≤ 3 l/s/m ²)
Thermal Bridges ³	ψ _{external} < 0.1
Summer overheating	<10%

Supporting evidence requirements

	Drawing & Photographic Record	Drawings - Pdf A4 format	Photographs (jpg format)
1	All elevations of completed building	One elevation per page. Scale bar to be included.	one photo for each elevation
2	Floor to wall junction – continuity of insulation visible	✓	✓
3	Floor to wall junction – airtightness measures visible	✓	✓
4	Intermediate floor to wall junction – airtightness measures visible	✓	✓
5	Roof to wall junction - continuity of insulation visible	✓	✓
6	Roof to wall junction - airtightness measures visible	✓	✓
7	Typical window in wall detail – jamb with wall insulation measures visible	✓	✓
8	Typical window in wall detail – jamb with airtightness measures visible	✓	✓
9	Typical treatment of services penetration in fabric – with airtightness measures in place	✓	✓
10	Typical MEV or MVHR installation showing ducts & duct insulation	✓	✓
11	Hotwater storage and pipework – showing tank and pipe insulation	✓	✓
12	Windows/doors – showing opening light with seals and glazing spacer bars	✓	✓
Other			
13	Air pressure test certificate (pressurisation and depressurisation results)	✓	✓
14	PHPP verification sheet as pdf	✓	✓
15	Copy of building users manual	✓	✓

Notes on compliance
 AECB Silver compliance cannot be assumed

Pay Certification Fee

Cost per certification	
AECB Members	£60
Non-members	£250

[Benefits of AECB Membership](#)
[Join the AECB](#)

- About Silver
- Criteria
- Evidence required

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SILVER CERTIFICATION – IE Developments Ltd

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the sustainable building association

This is to certify that the project

St Katherine's Field,
Cradley, Herefordshire, England

has been declared by Silver SpecInt (IE Developments Limited) to have been designed and built to meet or exceed the **AECB Silver Standard**

Client/Owner	IE Developments Limited
Architect/Designer	Architype
Contractor	IE Developments Limited
Energy services consultant	Elemental Solutions
PHPP by	Nick Grant

Certification date: 16 May 2012

Certificate number: **4-298**

AECB the sustainable building association
AECB (UK) Registered Office: 30 (Green) Road, Goffs, Borehamwood, Lutonshire, BB18 8JF
Registered in England & Wales no 0221768



AECB
the sustainable building association

AECB Silver Criterion	Required	Actual
Specific heat demand according to PHPP	<40kWh/m ² .a	39kWh/m ² .a
Specific primary energy demand according to PHPP	<120kWh/m ² .a	120kWh/m ² .a
Air leakage (n50)	<1.3 h ⁻¹ (M10R) <3 h ⁻¹ (MEV)	0.7h ⁻¹ (M40R)
Summer overheating (hours exceeding 25°C)	<10%	2%
Designed to minimize or mitigate against thermal bridges	Phi < 0.01 W/mK	

Full Project details are in the AECB Low Energy Buildings database:
<http://www.netofthefuture.org/viewproject.php?id=269>

Scan this code with your phone to go to the link

The certificate is issued in full compliance with the AECB Silver Energy Standard. Continued compliance for the project will require design and construction updates, as required. If the certificate will produce a building with a low carbon footprint and low energy consumption.

The AECB reserves the right to the disclosure of information required by the statute.

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SILVER CERTIFICATION – some issues

How is Silver different to PH Standard?

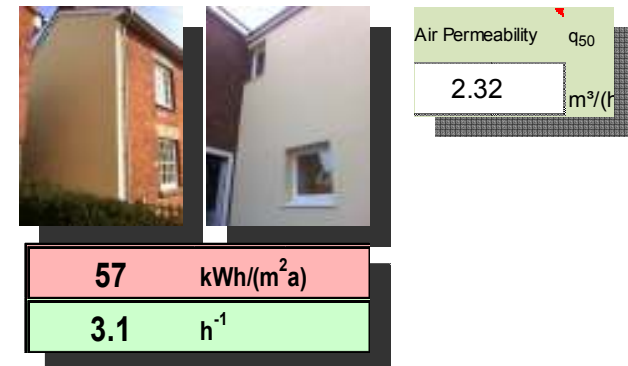
- higher space heat demand limit (40) requires more efficiency in other areas to reach same PE limit
- allows MEV
- Gives recognition for projects aiming for PH but that don't reach it for various reasons on site – may still be an excellent low energy building
- Worth AECB members exploring how it might be useful in retrofit projects, but discussion needed as was designed for new build

STANDARDS FOR NEW BUILD?

- AIM FOR PH IF POSSIBLE
- USE SILVER AS ACCEPTABLE 'BACKSTOP'

STANDARDS FOR RETROFIT?

- AIM FOR PH IF APPROPRIATE
- AIM FOR ENERPHIT STANDARD(S) IF POSSIBLE
- AIM FOR SILVER (EXPERIMENT)
- GET AS CLOSE TO SILVER AS YOU CAN

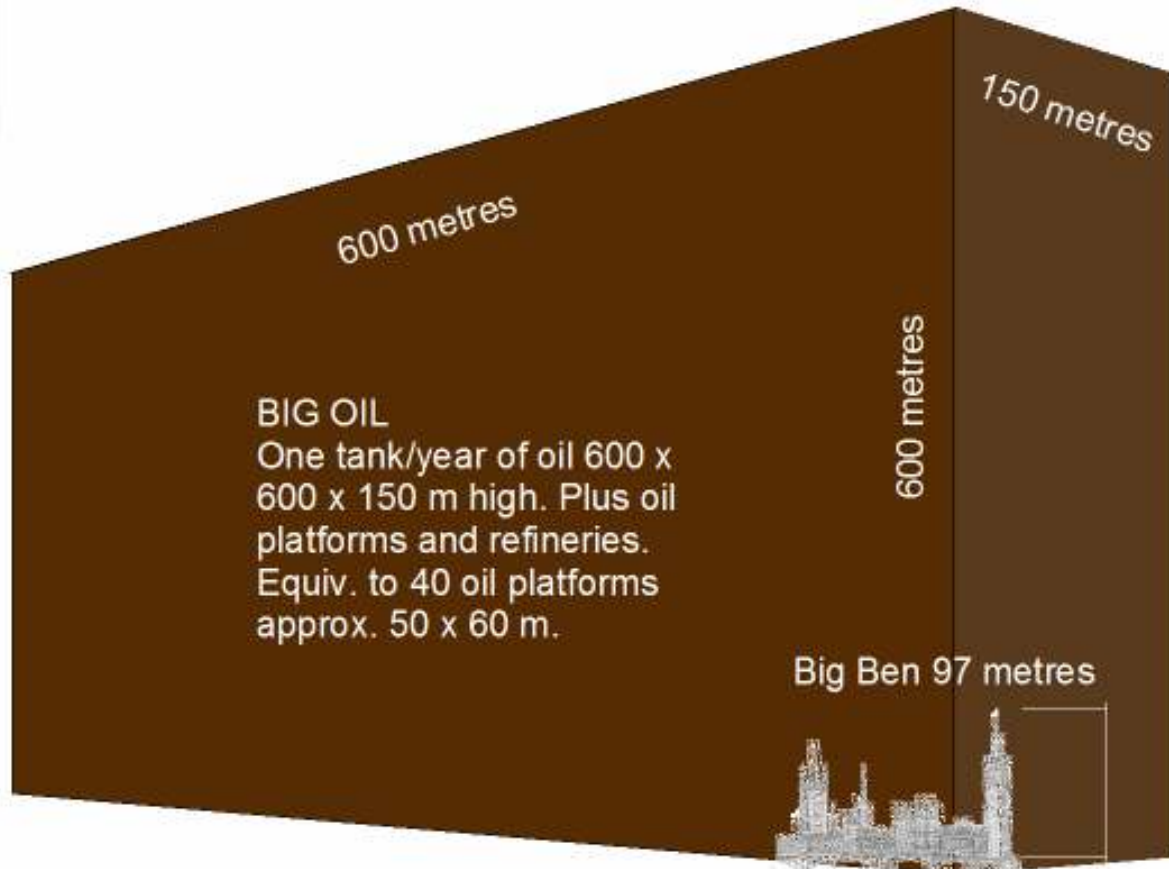


Present UK Energy Consumption

LESS
IS
MORE:

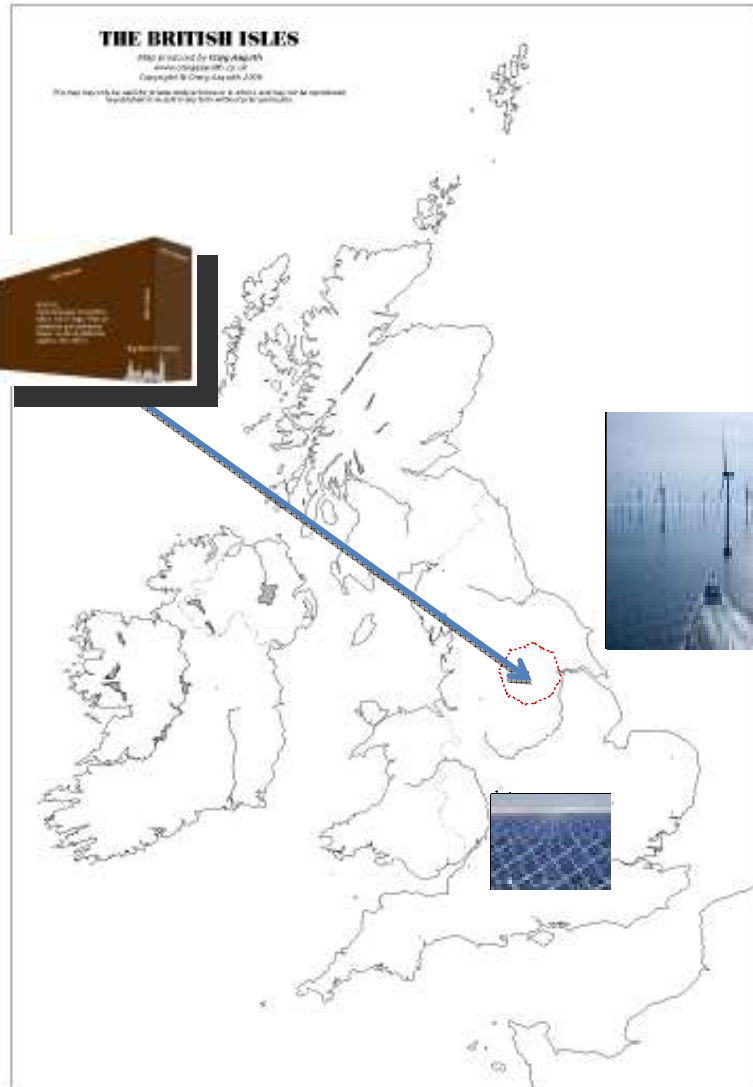
Energy
Security
After Oil

David Olivier with Andy Simmonds



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120 x 150 km
photovoltaic PV
array.

18,000 sq. km



Offshore wind
farm 270 x 300
km. Plus shipping
lanes.

81,000 sq. km



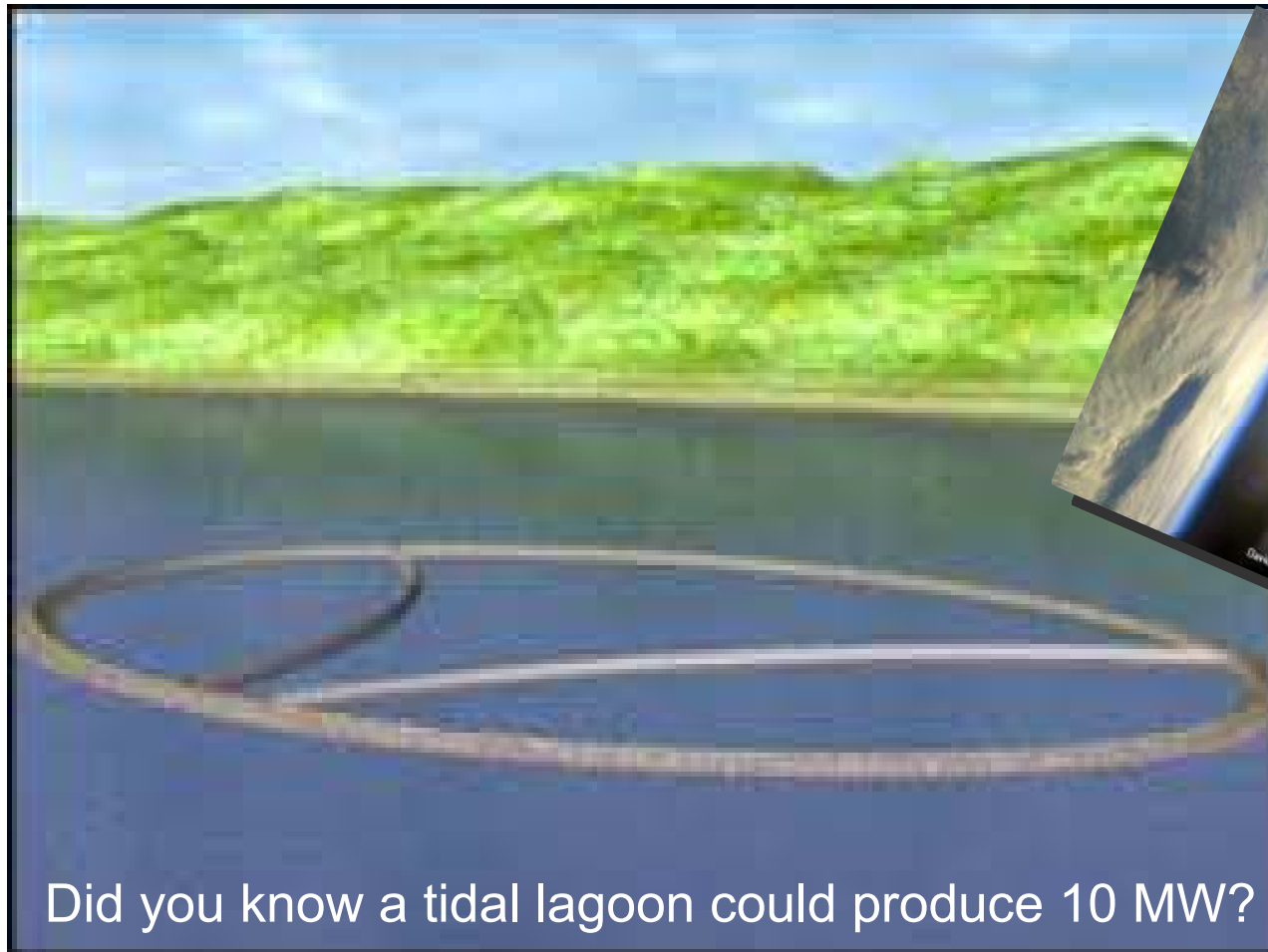
Present UK Energy Consumption

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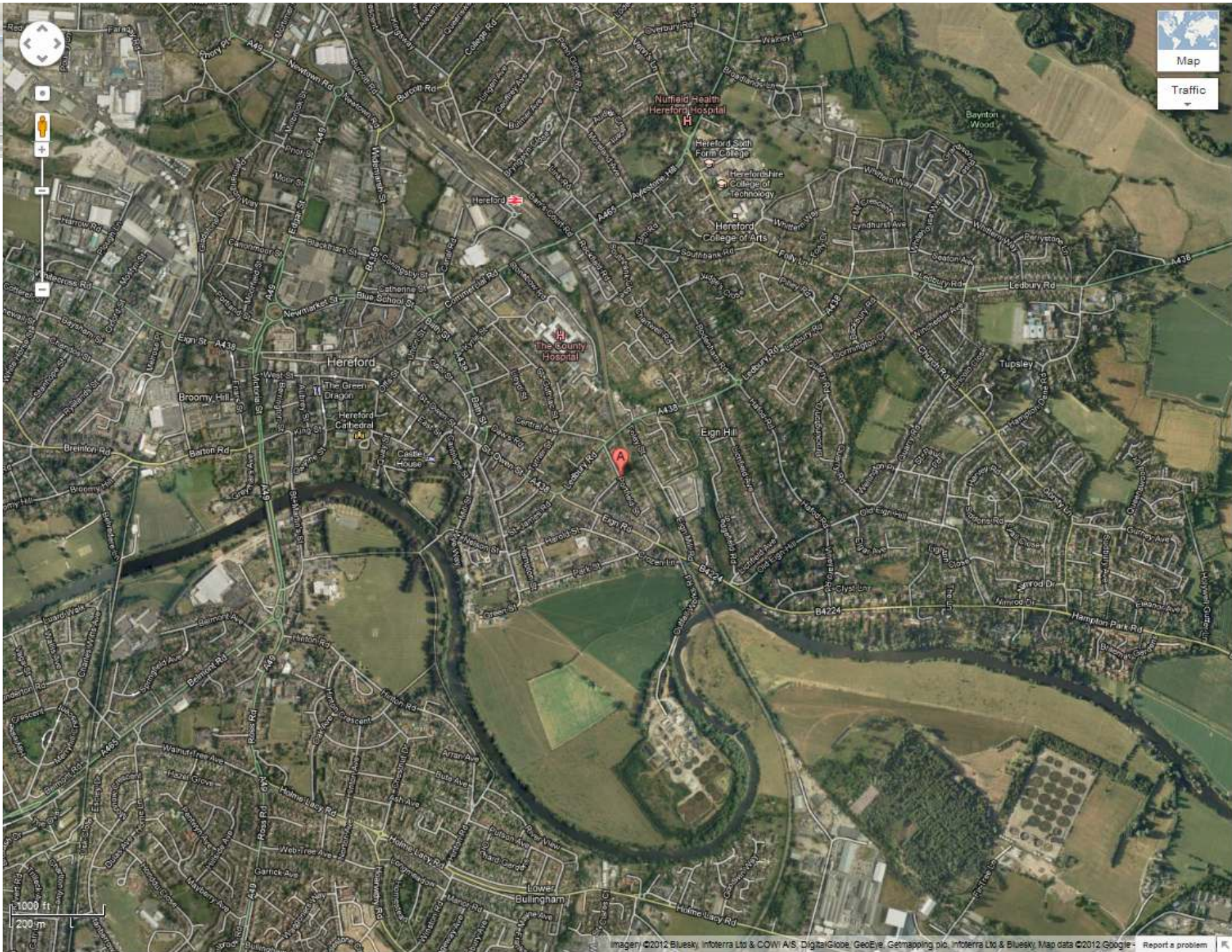
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..& that water power installations could help manage river flooding & create rich habitat?



Map

Traffic



CARBONLITE RETROFIT PROGRAMME

An alternative to the Green Deal for work on existing buildings.

Supporting AECB members working in the field of retrofitting.

Additional to basic AECB membership & financially self sustaining in 3 – 5 years

AECB OVERSIGHT

TRAINING

KNOWLEDGE BASE

FEEDBACK & DISSEMINATION

FINANCING

LOCAL DELIVERY

Handbook of protocols, contracts
Overview and guidance
Key measures
Construction details
Heating packages
Ventilation packages
Software / Calc methods
Manufacturers' solutions
Other

AECB RETROFIT KNOWLEDGE BASE								
COST TO MEMBERS - contained in design guidance pdf and updated online via simple matrix with download links								
Floors	ground floors to walls	intermediate floors to walls	Walls	walls to roofs	Roofs	roof junctions	Ventilation packages	Heating Packages
							1. kjhdkjhd kjhadfkjhd skjhad	1. kjhdkjhd kjhadfkjhd skjhad
							2. kjhdkjhd kjhadfkjhd skjhad	2. kjhdkjhd kjhadfkjhd skjhad
							3. kjhdkjhd kjhadfkjhd skjhad	3. kjhdkjhd kjhadfkjhd skjhad
			 CLP VOLUME ONE An Introduction to SHORT OVERVIEW		 CLP VOLUME TWO Principles and Methodologies TECHNICAL AND SCIENCE BACKGROUND		 CLP VOLUME THREE The Energy Standards ENERPHIT, ENERPHIT+, GENERIC LOW ENERGY - ALL STANDARDS EXPLAINED	
							 CLP VOLUME FIVE Step Two Design Guidance GUIDANCE DETAILS AND COMMENTARY + SPECIFICATION FOR HEATING & VENTILATION PACKAGES	



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Learning together, leading by example, lobbying for change

Please come and talk to us

We welcome *your* views on *your* organisation