

Company Overviews
Retrofit for the Future Project Brokering Workshops
London, 7th May 2009



Company	Specialisation	Details
3DReid Patricia Eckenweber 07986 944 021 Patricia.Eckenweber@3dreid.com	Architects	<ul style="list-style-type: none">• architectural services from inception to completion• project management• research and development• sustainable design advise• workshops
AGE Electrical Services (Aylesbury) Ltd Alec Eades 01494 891111 alec@ageelectrical.co.uk	Electrical Contractor and Building Management System Integrator	As an NICEIC Approved Contractor and KNX Partner we can provide energy saving solutions for the control of lighting, heating and ventilation.

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<p>Anglia Ruskin University</p> <p>Jemma Little 07793 822467 jemma.little@anglia.ac.uk</p>	<p>University</p>	<p>Anglia Ruskin University is the largest provider of undergraduate education in the East of England in a wide range of built environment disciplines including: Architecture, Architectural Technology, Sustainable Construction, Construction Management, Urban Design, Planning, Housing, Surveying, Real Estate Management and Civil Engineering. Many of our degree programmes are accredited by professional bodies e.g. RICS.</p> <p>Within the built environment research group we have active research interests and expertise in the following areas: sustainable building services, modelling sustainable architecture, sustainable construction materials, sustainable communities, renewable energy, passive solar design, ventilation, BRE Environmental Assessment Method. We are also providers of CPD to local authorities and the construction industry from short courses all the way to doctoral level. All our courses are rooted in practical applications and work-based contexts.</p> <p>We are experienced at working with public and private sector clients (with over 1000 clients a year) and can offer partners the following services:</p> <ul style="list-style-type: none"> Bid writing support as part of a project team Consultancy advice on design of technologies/methods, energy modelling, monitoring Conducting SAP modelling and monitoring Research methodology and evaluation expertise Access to academic research findings and knowledge base (international) to develop technology Advice on industry applications for technology and exploiting innovation Staff development support throughout the project to enhance capabilities to scale up roll out of technology/method and recognise the staff members' development throughout implementation e.g. through accreditation of their work based learning mapped against relevant modules at HE level e.g. 30 credit module in environmental services and construction technology or 15 credit module in modelling sustainable architecture.

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<p>BBM Sustainable Design (Architects)</p> <p>Duncan Baker-Brown 07788 476887 Duncan@bbm-architects.co.uk</p>	<p>Architects specialising in sustainable development</p>	<p>BBM Sustainable Design are a firm of architects specialising in the practice, research and teaching of low carbon design solutions. Formed in 1993 on the back of winning the RIBA's 'House of the future' design competition, BBM subsequently built the Level 6 equivalent 'futurehouse' in 1994. Since then they have worked on projects as diverse as the Greenwich Millennium Village, award-winning green retrofit projects such as No.5 Dyke Road Avenue in Hove that was short-listed for the Manser Medal in 2005 and 'The House that Kevin Built', Europe's first ever pre-fabricated house made entirely from sustainable materials, for Channel 4's 'Grand Designs Live' in 2008. Recently the practice has focussed on green retrofit projects in various sectors. Recently completed projects include a village hall that creates more energy than it uses, and the upgrade of a 1960's house that now performs as a Code for Sustainable Homes Level 5 dwelling.</p>
<p>BDP</p> <p>Richard Buckingham 0207 8128020 Richard.buckingham@bdp.com</p>	<p>Interdisciplinary Design Practice</p>	
<p>Bill Dunster Architects ZED factory Ltd</p> <p>Taus Larsen 07886-345-375 Taus@ZEDfactory.com</p>	<p>Architects</p>	<p>Professional Architectural services specialising in zero and low carbon building solutions Innovators of low carbon building technologies Specialists in supply chain of renewable technologies</p>

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<p>Blairs Limited</p> <p>Allan French 0777 197 3654 allan.french@blairsltd.co.uk</p>	<p>Manufacture and supply of timber and Aluminium clad composite windows and doors</p>	<p>Blairs is a leading designer and manufacturer of timber windows and doors for both the architectural and heritage markets as well as those for modern domestic dwellings.</p> <p>Timber windows, such as Blairs supply, have an A+ rating in the BRE Green Guide. We can also offer extremely low u values for our products to meet Levels 3 to 6 of the Code for Sustainable Homes. Our outward opening Aurora NRG Casement Window can also achieve a Class A energy rating.</p> <p>Blairs can offer Secured by Design certification on its products as well as Chain of Custody.</p> <p>Blairs offer an extensive range of Aluminium Clad Timber Composite windows and doors, including sliding and folding doors.</p>
<p>Broadway Malyan</p> <p>Stephen Choi 0207 261 4200 S.Choi@BroadwayMalyan.com</p>	<p>Architects and Designers</p>	
<p>Cambridge Centre for Energy Studies, Cambridge University</p> <p>Judith Britnell 07876 135335 Jb675@cam.ac.uk</p>	<p>Research</p>	<p>Knowledge of whole house energy efficiency solutions including passive design. Keen to be involved in a retrofit programme that would provide an action/research project.</p>
<p>Carlo Benigni Atelier</p> <p>Carlo Benigni 0793 9148363 Carlo.benigni@carlobenigni.com</p>	<p>Architecture</p>	<p>Architectural Design Services Planning assessments Building Code analysis Development of environmental project goals External Envelope Re-Design Green roof design Advice on low environmental impact techniques Integrated coordination of design services</p>

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<p>Carnego Systems</p> <p>William Box 07809 769530 william.box@carnegosystems.com</p>	<p>Smart Services Provider</p>	<p>Carnego System is a provider of advanced smart services to:</p> <ul style="list-style-type: none"> reduce energy reduce carbon enhance building productivity <p>We use remote management and advanced analytical techniques to identify building system configuration issues and opportunities for improvement. Our services provide continuous optimisation of building performance and the presentation of performance information in meaningful business terms.</p>
<p>CEN Services Ltd</p> <p>Jeff Slade 07802 700866 jeff@cen.org.uk</p>	<p>Consultant/Solution provider</p>	<p>We are involved in all forms of sustainable and renewable energy technologies and have the ability to provide pre assessment studies, integration of combined technology solutions, design criteria, installation and post installation monitoring</p>
<p>Colman Architects</p> <p>Anoek De Smet 0207 535 20 40 a.desmet@colmanarchitects.co.uk</p>	<p>Architectural Practice</p>	<p>Experience in mixed-developments schemes, including retail, offices and/ or leisure alongside residential facilities. Ensuring the viability of the various usages.</p> <ul style="list-style-type: none"> Assist in the client during the appraisal process Working in Conservation Areas or on sites with Historical sensibilities Providing passive sustainable measures as well as experience with designing to achieve specific levels of the CSHs Provide Contemporary design solutions
<p>DSDHA</p> <p>William Haggard 07752 954 772 whaggard@dsdha.co.uk</p>	<p>Architecture Practice</p>	<p>DSDHA is an architecture and urban design practice with a track record of award-winning and innovative sustainable design. We are involved in both project-based and speculative research into a number of areas of sustainable technology, and our recently completed projects include a School where the classrooms are heated by the pupils through heat recovery and a Children's Centre with a vertical garden irrigated by rainwater. Current projects include several new-build and refurbished residential schemes to meet the highest levels of environmental performance.</p>

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<p>EBP</p> <p>Paul G Smith 07793 208 198 pgsmith@ebpemail.com</p>	<p>Limited Company</p>	<p>EBP (short for Environmental Building Partnership Ltd) is an innovative clean technology company specialising in the development of Dynamic Breathing Building™ (DBB™) systems that significantly reduce energy consumption and in turn carbon emissions. EBP's enabling product is the Energyflo™ cell, a modular, multi-functional Dynamic Insulation Filtration (DIF) product suitable for use in all types of buildings, be they residential, office or industrial. The modular design means it is compatible with all construction methods and can be used in new build, retrofit, or refurbishment projects.</p> <p>Energyflo™ cells are currently being used in a new social housing development in Orkney, a wildlife observatory in the Fair Isles, a private housing development in Aberdeenshire, an industrial development in Cambridgeshire, office re-development in Glasgow and a prototype eco-villa project in the UAE. Please contact us or visit www.environmental-building.com for further information</p>
<p>ECODOMUS LTD</p> <p>DERMOT BARNES 07887 998578 dermot@ecodomus.co.uk</p>	<p>SUSTAINABLE BUILDING CONSULTANTS</p>	<p>Ecodomus provides a holistic range of products and services to improve the sustainability of existing buildings:</p> <ul style="list-style-type: none"> architectural design and specification services existing and predicted energy use using SAP and PHPP methodologies code for sustainable homes assessments full project and contract management services Thermal envelope solutions to include high performance glazing and insulation Solar thermal and biomass boilers. Sustainable timber products
<p>Ecos Renew (Ecos Trust)</p> <p>Jim Cornick 01458 254271 jim@ecostrust.org.uk</p>	<p>Sustainable Housing (Retrofit and New Build)</p>	<p>Building on the experience of Ecos (Homes) in New Build, Ecos Renew provides a comprehensive 'sustainable' retrofit service for existing properties. This involves an assessment visit and report based on the Code for Sustainable homes followed by a design and implementation package.</p> <p>Our partnership approach includes working with Encraft (for Energy assessment and the Ecology Building Society / Wessex Reinvestment Trust (for financial services) plus a an innovative insulation provider with regard to solid wall (external) insulation.</p>

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<p>Energy saving blind</p> <p>Bill Watts 0799 0572517 Billwatts1000@gmail.com</p>	<p>Technology start up</p>	<p>I have a roller blind with a deployment system that can be fitted to existing window openings with little intervention. The edges are magnetically sealed to the window surround, rather than the conventional boxed out “blackout “blind. The sealing is sufficient to substantially reduce uncontrolled infiltration through the windows.</p> <p>With a low emissivity coating on the fabric the U- value of a single glazed window can be reduced from 5.6 to 1.8, and further if combined with conventional curtains.</p> <p>In summer the blind can be partially deployed to provide solar shading and allowing ventilation without the blinds banging.</p> <p>The system is a method of addressing the insulation and air-tightness of old windows at a relatively low cost and disruption, leaving the external façade appearance in tact, with the benefits of high ventilation rates and heatloss through single glazed windows in the summer.</p>
<p>Facility Innovate Ltd</p> <p>Claire Price 07790 474793 innovate@the-facility.co.uk</p>	<p>Research & Development (Architectural Design)</p>	<p>Facility:Innovate has developed prototype devices that convert the mechanical movement associated with footsteps or transport vibration into electricity. Our energy harvesting initiatives have arisen from years of experience in environmental architecture. The harvested electricity can then be utilised locally to...</p> <ul style="list-style-type: none"> Power a streetlamp from your footsteps Illuminate a railway tunnel from the vibration within the structure Charge your iPod whilst walking to the photocopier Illuminate the timetable in Victoria Station via the rush-hour commute Power traffic lights through the vibrations produced from passing traffic Harness engine vibrations to recharge your mobile phone Feed the floodlights of Wembley from spectators climbing the stadium staircases Capture lost energy from machinery to sell back to the grid Drive the plasma screens at your local gym whilst you exercise

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<p>Family Mosaic Housing</p> <p>Jack Skinner 0207 0891268 JACK.SKINNER@FAMILYMOSAIC.CO.UK</p>	<p>Social Housing Provider</p>	<p>FAMILY MOSAIC PROVIDE 23,000 HOMES ACROSS LONDON AND ESSEX. WE HAVE A HOUSING STOCK DOMINATED BY SINGLE SKINNED HARD TO TREAT VICTORIAN PROPERTIES WITH TYPICAL LOW ENERGY PERFORMANCE. WE OWN AND MANAGE ENTIRE ROWS OF TERRACE PROPERTIES, SO CAN EITHER CONTRIBUTE INDIVIDUAL PROPERTIES OR GROUPS OF NEIGHBOURING PROPERTIES - POTENTIALLY PROVIDING BETTER VALUE FOR MONEY. FAMILY MOSAIC ALSO HOLD A STOCK OF SINGLE SKINNED MANSION BLOCKS - AGAIN HARD TO TREAT WITH POOR CURRENT ENERGY PERFORMANCE WHICH WILL NEED INNOVATIVE IMPROVEMENTS.</p> <p>IN ORDER TO TREAT HOMES OVER FUTURE PROGRAMMES, WORKS WHICH CAN BE CARRIED OUT WHILST RESIDENTS ARE IN SITU ARE IDEAL. HOWEVER THERE IS FLEXIBILITY WITH THIS ON DEMONSTRATION PROJECTS FOR THE PURPOSES OF THIS COMPETITION.</p> <p>WE ARE LOOKING FOR SOLID WALL INSULATION SOLUTIONS, EXTERNAL CLADDING OF BRICK BUILT PROPERTIES, OR LOW DISRUPTION INTERNAL INSULATION. ALSO WE WOULD BE KEEN TO TRIAL NEW HEATING AND LIGHTING TECHNOLOGIES – particularly low maintenance solutions.</p>

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<p>Fulcrum Consulting</p> <p>Tessa Parnell 0 20 7520 1300 Tessa.parnell@fulcrumfirst.com</p>	<p>Consulting Engineers</p>	<p>Fulcrum is a leading international team of consulting engineers. Our mission is to facilitate the intelligent development of a low-impact built environment. By taking an integrated approach to M&E, sustainability and planning, we control risk whilst driving innovation. Our experience covers most sectors, including many residential projects and all types of commercial and mixed use buildings. We understand the legislative, economic and technological drivers that shape the built environment, and remain mindful of the socio-economic imbalances surrounding fuel poverty. We specialise in working in strategic partnership with our clients and key stakeholders to achieve low energy, low running cost and low CO2 designs across new and existing stock. We also help develop appropriate strategies to achieve specific Code for Sustainable Homes and Energy Performance Certificate (EPC) ratings.</p> <p>Our expertise covers providing guidance on:</p> <ul style="list-style-type: none"> Energy efficient building form and building fabric options to optimise passive heating and cooling Energy efficient building services options Feasibility of renewable and low energy technologies Design, financing and operation of Community Energy Systems and where relevant, engagement of Energy Service Companies (ESCOs) <p>Our entire approach is underpinned by a strong engineering capability, ensuring creative ideas that are deliverable in practice.</p>
<p>Futureform Design & Build Ltd</p> <p>Steven Barrett 07710 000971 Steven.barrett@futureformltd.com</p>	<p>Modular Building System Constructor</p>	<p>Futureform is a Modular Building System turn-key provider with a wide range of modular based solutions for housing and other forms of accommodation. The Futureform Building System is an advanced and sustainable form of construction using the latest in off-site building techniques. Modules are produced at a 14.5 acre Assembly Plant at Wellingborough and shipped direct to site with all fit-out components already installed and tested. These can include Kitchens, Bathrooms complete with all wiring, heating and plumbing. Futureform is currently constructing housing projects to the Code for Sustainable Homes Level 5 and provide housing to Code Level 6 if required. All forms of housing and extensions can be provided to an overall height of circa 10 stories.</p> <p>Please see our web site at www.futureformltd.com</p>

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Homes Matter Nigel Farren 07531 591739 nigel@homesmatter.co.uk	Energy efficiency solution provider	Homes Matter is developing a web based ASP application that enables local authorities, social landlords, installers, energy suppliers, community groups and others to manage the workflow involved in improving the energy efficiency of existing homes. Authorised users can login 24/7 to see the progress of a transaction from commissioning a home energy audit, pre- installation survey and grant provision to installation of recommended measures, EPC generation and assessment of carbon emissions saved
Kent School of Architecture, University of Kent Keith Bothwell 07 753 678 853 k.bothwell@kent.ac.uk	Education / Research / Consultancy	Environmental/sustainability consultancy Energy and environmental modelling, including SAP and PHPP modelling Architectural design services including CAD and physical models Technical design services Research capability and facilities Energy and environmental monitoring
Kingston University London Stephen Pretlove 07588 408305 s.pretlove@kingston.ac.uk	Higher Education	I am the Director of ArchiLab, our in-house environmental and sustainable architecture facility, in the School of Architecture at Kingston University. We specialise in sustainable building design and use and have expertise in areas of lighting, acoustics and thermal comfort. We assess building designs and we test completed buildings. We are qualified On-Construction Domestic Energy Assessors (OCDEA) and Code for Sustainable Homes assessors. We see our input in this project as providing academic expertise in modelling existing dwellings, predicting energy consumption and carbon emissions before and after the retrofit and carry out post occupancy evaluations for this project. More details can be found at www.kingston.ac.uk/design/archilab

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<p>Latis Group</p> <p>Graham Kauders xxxxx xxxxxx Graham.kauders@latisgroup.com</p>	<p>Architecture and Design Consultants</p>	<p>LATIS are international architectural design and development consultants with a unique capacity to realise opportunities, test ideas, overcome grand challenges - and actually build them. Today we're seeing more opportunities for innovation in design than ever before with greater demands from clients, occupiers and individuals. The pursuit of designing energy efficient buildings, developing new approaches to master planning and the creation of new methods of construction through rigorous testing and design development is an inherent part of the way that LATIS works.</p> <p>Re-thinking the way we imagine, design and construct is central to the LATIS vision – an integrated and agile approach that delivers the right costs and right skills by organizing and integrating closely with partners, manufacturers and suppliers world-wide.</p>
<p>London South Bank University</p> <p>Andrew R Atkinson 020 7815 7253 Andy.atkinson@lsbu.ac.uk</p>	<p>University</p>	<p>University offering research and evaluation capability.</p>
<p>Maxfordham LLP</p> <p>Chris Doel 07811 413 784 c.doel@maxfordham.com</p>	<p>Building Services & Environmental Consultant Engineers</p>	<p>Maxfordham are building services and environmental consultants, so we do not offer a 'one-product solution'. What we offer is an approach which is applicable to any building. We have been involved in new build and refurbishment of social housing for 40 years. We have also been involved in innovative solutions to low energy and renewable energy buildings from a solar heated housing installation for Lewisham in the 1970's to the recent zero carbon office for Renewable Energy systems as well as refurbishment of challenging historic building fabrics like the Kentish Town Edwardian pool and rare book archives in Cambridge. Knowing a great deal about how buildings are put together, how services run, and how the building physics work we are in a position to take a leading role in working up innovative solutions ourselves or in conjunction with others appropriate for the building and following through with the design and management of this project.</p>

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<p>Metropolitan Housing Partnership</p> <p>Seb Junemann 07827 858 897 Seb.junemann@mhp-online.co.uk</p>	<p>Registered Social Landlord / Housing Association</p>	<p>Two potential ideas: Street property refurbishment in conjunction with Neighbourhood Investment team within London. Aim to develop a template for future works using methods that are repeatable. Exemplar property within the context of a major refurbishment project – an estate property. Exploring the challenges of retrofitting flats in established estate locations</p>
<p>National Energy Foundation</p> <p>Gabby Mallett 07763 556 596 Gabby.mallett@nef.org.uk</p>	<p>Educational Charity</p>	<p>In partnership with organisations, we work with the communities they serve to increase awareness, aid understanding and inspire action.</p>
<p>National Energy Foundation</p> <p>Jeremy Rawlings 01908-665555 jeremy.rawlings@nef.org.uk</p>	<p>Educational charity with a consultancy team.</p>	<ol style="list-style-type: none"> 1. We are offering a new process of off-site manufacturing of board for internal wall insulation, which avoids mess on site and allows convenient fitting with the occupants in residence. We are looking for housing associations, local authorities and registered social landlords to be partners. 2. NEF have submitted a Greener Living Fund bid on behalf of the Sustainable Energy Academy, which aims to open ecohouses across England to demonstrate energy saving in existing properties. This will extend SEA's existing work of demonstration eco homes. NEF and SEA would be happy to help manage the promotion and opening of ecohomes resulting from this TSB competition. 3. NEF is keen to know about and work with any organisations offering ways of improving the energy efficiency of existing properties

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<p>NextWaves</p> <p>Gary Payne 07717 050500 gdpayne@NextWaves.com</p>	<p>Novel Solutions/R&D focused on the system</p>	<p>We focus on bringing innovative solutions to home energy demands from an overarching systems-led foundation. We pull together existing technologies with new concepts to meet real home energy demands – in particular incorporating intelligence into the scheme to improve performance and reduce the expectations of householder knowledge.</p> <p>Our innovative elements span active and passive approaches, including: novel insulation solutions; integrated energy generation elements; targeted ventilation technologies; bought together with an adaptive, connected, and intelligent control system that make the best of the total potential real world performance.</p> <p>Our aim is to devise total solutions that deliver - in the real world, with real world usage. Our focus is on cost effectiveness, reduced installation complexity, high usability and, of course, affordability. We are looking to demonstrate our concepts in</p>
<p>One NorthEast</p> <p>Alex Fowler 07936 054362 Alex.fowler@onenortheast.co.uk</p>	<p>Regional Development Agency</p>	
<p>Orbit Heart of England Housing Association</p> <p>Ken Walker & Stewart Fergusson 07970 474065 walkerken@btinternet.com</p>	<p>Housing Association (RSL)</p>	<p>We are pursuing a Passive House approach, reducing the demand for energy use by improving the thermal qualities of existing buildings and matching the energy supply to the reduced demand. We favour the use of renewables: Solar collectors, air source and ground source heat pumps. We are working with two other Housing Associations and Coventry University to contrive solutions to different house types and are linking to two other groups in other locations in the country to build experience of further house types</p>

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<p>Orchard Partners London Ltd and The Clean Heat Provision Partnership LLP</p> <p>William Orchard 0208 2968745 william@orchardpartners.co.uk</p>	<p>Consulting Building Services Engineers</p>	<p>Specialists in upgrading and retrofitting existing heating systems in building to low CO2 piped heat supplies from renewable sources, the utilisation of waste heat from power generation (CHP) and other low CO2 energy supply opportunities.</p> <p>Control designs and methods for domestic hot water preparation to convert buildings to operate effectively with either condensing boilers or condensing CHP.</p> <p>The methods used aim to achieve low return temperatures to encourage condensing operation from existing heating installations</p> <p>Optimisation of investment in demand reduction for the fabric of existing building compared to investment in low CO2 piped heat supplies that give CO2 reductions for both the fabric loads and the base domestic hot water and ventilation loads.</p>
<p>Oxford Brookes University</p> <p>Rajat Gupta 07786 600160 rgupta@brookes.ac.uk</p>	<p>Higher Education, Research</p>	<p>I am a Reader in Architecture and Climate Change, and Research Director of the Architecture Unit of Oxford Institute for Sustainable Development in Oxford Brookes University, Oxford. Over the last 10 years, I have been led a range of research, consultancy and knowledge transfer activities related to carbon counting and post-occupancy evaluation of buildings and cities across UK, USA, and India.</p> <p>For this 'Retrofit for the future' call, we can offer solutions in the following areas based on our expertise and experience:</p> <p>Monitoring and post-occupancy evaluation (POE) of environmental performance of homes, offices and public buildings</p> <p>I have led energy audits, monitoring and post-occupancy evaluation studies of about 40 buildings (domestic and non-domestic), and I also run a post-graduate module on POE in Oxford Brookes University. Our POE approach involves assessing and benchmarking actual energy use in buildings as well conducting occupant satisfaction studies. Currently we are monitoring heat pumps in a range of UK homes to assess their real performance as part of a Research Council project, and we are also doing post-occupancy evaluation studies of University of Portsmouth library building. We have carried out POE studies of 22 Oxford City Council-owned buildings, and about 15 sustainable buildings. Our evaluation of environmental performance of buildings includes</p>

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		<p>Measuring existing energy consumption, CO2 emissions and water consumption of the building, and benchmarking against other buildings of similar type.</p> <p>Monitoring the building for indoor temperature, humidity and CO2 levels. Our evaluation of environmental performance of buildings includes Measuring existing energy consumption, CO2 emissions and water consumption of the building, and benchmarking against other buildings of similar type.</p> <p>Monitoring the building for indoor temperature, humidity and CO2 levels. Examining the results from the dynamic simulation model used in the design stage against real measurements/data</p> <p>Testing the design parameters and assumptions against actual performance of the building.</p> <p>Looking at building controls and how their operation can improve. Looking at user perception and satisfaction of the building in general, for example, does it meet users' needs?</p> <p>Testing preliminary environmental strategies of the building (orientation, services etc.) and evaluating their success or otherwise from the perspective of the different users of the building.</p> <p>Assessing the occupants' indoor environmental satisfaction (covering thermal comfort, air quality, ventilation and daylight), their current levels of environmental awareness, and use of controls, and comparing it with monitored data.</p> <p>Carbon modeling and carbon mapping of homes</p>
<p>PA Consulting</p> <p>Carys Lloyd 07813 352349 Carys.lloyd@paconsulting.com</p>	<p>Technology & Innovation Consultancy</p>	<p>PA Consulting's Cambridge Technology Practice at Melbourn comprises of 350 Consultant Scientists, Engineers and Innovation Leaders. We work clients in a range of sectors, including Cleantech, Healthcare, Consumer Products and Defence.</p> <p>Our core service offerings include:</p> <p>Science and Technology Evaluation (e.g. Due Diligence, Scientific experimentation, IP evaluation, Competitor analysis)</p> <p>Transforming Innovation Performance (e.g. Open Innovation methodology)</p> <p>Deriving Value from Research and Development (e.g. Commercialising R&D output, Evaluating the economic impact of research activities, IP creation)</p> <p>Product design and development (e.g. CAD design, prototype construction, routes to mass-production).</p>

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<p>PA Consulting Group</p> <p>Paul Farenden 0797 4659876 Paul.farenden@paconsulting.com</p>	<p>Technical/science consulting</p>	<p>Our technology centres in Cambridge and Princeton contain concentrations of technology developers, Engineers, Designers and Scientist all under one roof. PA's range of technology services covers a spectrum from Front end science and due diligence. Technical innovation, design for manufacture through to Product and process development.</p> <p>Services from Strategy through to implementation in Healthcare, Food & consumer products and packaging, clean technology, built environment and wireless technology.</p> <p>In Management Consultancy, Program and risk management, Life cycle analysis, Intellectual property mapping and cost reduction analysis through to supply chain management</p>
<p>Parity Projects</p> <p>Russell Smith 07904 224410 Russell.smith@parityprojects.com</p>	<p>Specialist Consultancy and Project Management</p>	<p>We remain the only UK company solely dedicated to the eco-renovation of existing housing stock having been pioneers in demonstration house development with the Carshalton Grove demo house. We provide an end-to-end service as follows:</p> <ul style="list-style-type: none"> Identification of ideal energy and water solutions for any given property. Detailed knowledge of expected costs and benefits of any given measure to feed into any given approach or package of measures. Detailing of chosen designs and installation for formal project documentation. Production of tender documents, identification and vetting of contractors. Introduction of innovative methods of procurement to ensure that key energy and water efficiency elements are assured. Management of contractors to a successful conclusion. Installation of monitoring systems to the house to provide full detail on in-situ performance of measures and tenants lifestyles. Dissemination of project outcomes.

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<p>PassivSystems Ltd</p> <p>Colin Calder 01635 597355 colin.calder@passivsystems.com</p>	<p>Software and services</p>	<p>PassivSystems are able to deliver an end-to-end solution providing an intelligent system that enables enhanced energy management in the home. The solution has the ability to actively manage household devices and energy needs in a consumer lifestyle aware context. The hardware and software solution provides an ideal platform for delivering Measuring, Monitoring and Evaluation (MME) services into the home for pre and post intervention data collection and analysis. Post physical intervention the centrally hosted managed services platform can be connected to a set of applications running on a low-cost open hub in the home. The hub runs an internal Home Area Network (HAN) communicating with sensors to monitor the in-home environment and relays and actuators to optimally control energy usage in the home. The Home Hubs are constantly connected to a central server via the Internet or GPRS enabling them to send usage and status information from the home and receive environment data and requests for energy management actions. The central platform in turn provides interfaces to utilities and to other commercial partners to view and analyze aggregated data</p>
<p>Pellings LLP</p> <p>Richard Claxton 020 8460 9114 rclaxton@pellings.co.uk</p>	<p>Multidisciplinary consultancy</p>	<p>Pellings bring practical advice and management expertise that can make a real difference to the delivery of Retrofit for the Future projects. Building surveying and project management are core competencies within our business and we have a deep understanding of existing buildings. We have an extremely strong track record in private and social housing within London and the South East and have a full understanding of the market, including LA's, RSL's, constructors, materials suppliers, and other partners within the supply chain. Resident consultation and involvement will be key to the success of any project, and Pellings have extremely strong skills in this area. We are also experts in developing a partnering ethos amongst multiple stakeholders. Pellings are currently the lead consultants on two major eco-retrofit projects in London, including a large residential tower, which involves one of the largest PV installations in the UK, and a street property programme for an RSL which will become an industry benchmark. We will turn ambitions into reality.</p>

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<p>PRP</p> <p>Greg Slater 07715 122 576 greg.slater@prparchitects.co.uk</p>	<p>Multidisciplinary Architectural Practice</p>	<p>Through our founding membership of the UK Green Building Council and position on the steering group of the Existing Homes Alliance, PRP has taken a lead in addressing the challenge of sustainably refurbishing our existing stock to achieve deep cuts in carbon emissions.</p> <p>We believe that PRP is in pole position to help drive the change required. From option appraisal and technical specification (in partnership with our in-house environmental services team) to statutory compliance and resident consultation, we offer a key professional resource to ensure that all upgrade activity is designed for long-term gain.</p> <p>At a practical level we have also developed a series of exemplar schemes for properties ranging from solid walled Victorian terraced housing through to an iconic Grade II listed concrete high-rise, showing that emissions reductions in excess of 80 per cent are achievable even in the most difficult of circumstances</p>
<p>QinetiQ</p> <p>James Kearse 0779 2262184 Jkearse@qinetiq.com</p>	<p>Technology research, development, products</p>	<p>QinetiQ have developed a means to overlay synthetically generated imagery or information into live video feeds. This has been successfully exploited in the defence domain for training and decision support activities, and has the potential to support the built environment. QinetiQ are currently partnering with Imperial College, London to explore the application of this technology into this area.</p> <p>The technology has a number of potential applications. These include the overlay of Computer Aided Design (CAD) information onto the real world to assist in materials estimates and reduce waste or assess the environment impact of potential new developments. Specifically, overlay of (for example) the thermal signatures of buildings could assist in identifying areas of wastage. The ultimate exploitation of this technology could be in rationalising a number of existing built environment tools into a single form factor for real-time environmental assessment</p>

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<p>RADIAN</p> <p>PAUL CINIGLIO 01730 403055 paul.ciniglio@radian.co.uk</p>	<p>Housing Association</p>	<p>Project likely to focus on rural homes located off the gas network. Innovation in insulation, air tightness and ventilation Renewables - Heat pumps, solar thermal and PV Housing Association with experience of undertaking C60-80 projects</p>
<p>Riches Hawley Mikhail Architects</p> <p>David Mikhail 0207 247 6418 david@rhmarchitects.com</p>	<p>Architects / designers</p>	<p>We are designers who offer an understanding of the construction and CO2 issues surrounding the multitude of solutions being proffered by the market. In addition, we have the proven skills to design sensitively and with imagination within existing housing stock. Riches Hawley Mikhail (RHM) are architects and designers with recent expertise in providing innovative low carbon housing. We have won the 'Housing Design Awards' for two years running and are short listed again this year; all for innovative, pragmatic social housing. Recent projects employed very low carbon construction, using products such as hemp, sprayed into prefabricated timber frames. (Clay Field in Suffolk for Orwell HA) This is in addition to having very low energy requirements in use. Having spoken with the competition organisers, we have confirmed that considering energy in construction will be an important consideration within this competition.</p>
<p>Safeguard Europe</p> <p>Eric Rirsch 01403 210204 ex 867 eric.rirsch@safeguardeurope.com</p>	<p>SME - Manufacturer of Remedial Water Proofing Products</p>	<p>Safeguard have developed a remedial water proof coating that can be applied to brick and stone masonry. The coating impregnates the surface to make it water resistant. There is no change in appearance of masonry once the coating has been applied a the treated wall remains breathable to water vapour By reducing the moisture content of a wall the thermal resistance is increased. In theory, the U-value of a single skin wall is reduced from 4.0 to 2.9 W/m2/C by removing moisture. Safeguard are working with University of Portsmouth to quantify the heat savings in practice. We would like to develop a co-operation with a partner in control of housing stock so we can run full scale tests to see what energy savings are actually found.</p>

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Sciotech Projects Rayner Mayer 0118 3786357 rayner@sciotech.demon.co.uk	Energy and environmental consultancy	Identifying holistic solutions for reducing the carbon footprint of existing domestic buildings Reducing electricity demand by efficient use of appliances Identifying the optimum amount of insulation to reduce the heating demand integrating micro-renewable energy sources into the building to meet the residual energy demand Use of ground source heat pumps to provide space heating and hot water
SolarEmpower ltd Barry Clive 07977 410343 barry.clive@solarempower.com	Solar energy systems manufacturer	We design and manufacture cost effective evacuated tube solar water and space heaters that can be retrofitted even to vertical walls and flat roofs without loss of efficiency
Sustainability Consulting Ltd Dan Staniaszek 07722 224479 dan@sustainabilityconsulting.org.uk	Consultancy	Sustainability consultant able to assist consortium partners in putting together a bid

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<p>Syzygy-cbs Ltd</p> <p>John D Patman 07752 802230 Johnpatman.syzygy@btinternet.com</p>	<p>Strategic Business Development :Innovation in Emerging Technologies...A solution Provider</p>	<p>Syzygy-cbs Ltd establishes high value business collaborative groups to develop customer focussed business solutions which combine leading edge technologies with key research and development in both the industrial and academic fields .</p> <p>Syzygy works in association with Cambridge University and combines and integrates global best practice ,niche technologies and global expertise and exclusive minds in an innovative forum which allows for the rapid development of prototypes to verify proposed solutions and pre prepares for cultural ,behavioural and organisational change.</p> <p>Current interest are in remote management of energy ,carbon reduction strategies due to behavioural patterns, measurement of building use and performance. Integration of real time data to create new business processes and the improvement in the quality of decision making. Creation of intelligent buildings and infrastructure.</p> <p>Syzygy is also part of the NATII consortia which includes Thales Research and Development, Lockheed Martin UK and Cambridge University</p> <p>NATII is a pioneering process and" Mash Up" facility in which organisations and individuals may come together in a neutral environment to help them articulate, visualise ,simulate, experiment and solve their complex problems.</p>
<p>The new Housing Association</p> <p>Iona Taylor 07854 978090 iona.taylor@thenewhousing.co.uk</p>	<p>Housing Association</p>	<p>Upgrading of Interwar properties including start of major overcladding to improve thermal efficiency with single close for full refurbishment.</p>
<p>The Steel Construction Institute</p> <p>R M Lawson 07771 561196 m.lawson@steel-sci.com</p>	<p>Research Institute</p>	<p>SCI wishes to be involved in the areas of modular units (with Futureform) in building extensions, and in over-cladding of existing buildings using steel cladding systems</p>

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<p>Total Flow Limited</p> <p>Tim Hall 07870 274756 thall@totalflow.co.uk</p>	<p>Process design consultants</p>	<p>Total Flow Construction Collaborate with designers aiming for high sustainability scores; to specify products and assembly processes that perform while meeting their target supply and construction cost. Design and deploy innovative whole systems supply and construction plans that ensure materials, labour and methods achieve the desired result with minimal disruption and waste Coach designers and developers in a process to reduce time and hence cost of construction. Total Flow's Style Our reputation is built on the story we can tell about the transformation our clients' organisations: Enabling clients to sustain their improvements not only to resolve a problem. We back our ability to develop solutions and see them through to implementation.</p>
<p>TRADA</p> <p>Marc Leat 07908 385487 mleat@trada.co.uk</p>	<p>Technology/Solution Provider</p>	<p>Knowledge of Products, companies Consortia of companies interested in contributing expertise/products. Knowledge of building systems, how products react in-situ. In-situ monitoring Project Management Design Energy usage assessment</p>

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<p>TWI Ltd</p> <p>John Davenport 01223 899000 john.davenport@twi.co.uk</p>	<p>R&D</p>	<p>TWI is a £40m turnover R&D and technology consultancy organisation engaged with the build environment sector and many other industry sectors. TWI is involved with industry in many areas, eg:</p> <ul style="list-style-type: none"> - Wireless networks and sensor technology to contribute to efficient energy usage. - Developing effective joining and assembly processes for multi-component systems. - Reliability engineering to ensure that retrofitted solutions have a long, trouble-free life, taking into account likely environmental and usage conditions. - Low energy LED lighting systems. - Surface treatment technologies to enhance product performance.
<p>University of Bath</p> <p>Dr Martin Ansell 01225 386432 M.P.Ansell@bath.ac.uk</p>	<p>University</p>	<p>The University of Bath can offer consortia expertise in the following fields:</p> <ol style="list-style-type: none"> 1. Low carbon construction, sustainable materials for building and renovation, building physics, environmental modelling, structural-scale testing This expertise lies within the BRE Centre for Innovative Construction Materials (BRE CICM) (Director, Professor Pete Walker, Deputy Director Dr Martin Ansell, Dr Andrew Shea, Dr Stephen Lo). BRE CICM incorporates staff from the Departments of Architecture & Civil Engineering and Mechanical Engineering with considerable expertise in sustainable materials and construction. 2. Independent database for embodied energy and carbon The Sustainable Energy Research Team (SERT) led by Professor Geoffrey Hammond in the Department of Mechanical Engineering, promotes sustainability through high quality research in fields such as environmental life cycle assessment, embodied carbon and economics of renewable energy. SERT's Inventory of Carbon and Energy (ICE) may be used to evaluate the carbon footprint of buildings. 3. NDE validation and materials testing Within the Materials Research Centre (Director Professor Darryl Almond) there is expertise in NDE examination of structures and well equipped laboratories for assessing the physical properties of construction materials including metal alloys, polymers, composites, masonry and timber.

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<p>XCO2 Energy</p> <p>Alex Moody 0797 7105678 alexm@xco2energy.com</p>	<p>Consultancy</p>	<p>XCO2 Energy are experts in designing, quantifying and delivering low energy buildings. We regularly carry out options appraisals for improved building performance specification, low energy systems and renewable energy technologies. We are well suited to help quantify the most effective energy saving measures and calculate paybacks, NPVs and ROIs. We have experience in new build and retrofit application and have certified Eco Homes, Code for Sustainable homes assessors and can issue SAP and EPC certificates.</p>
<p>Qinetic</p> <p>Dr Chris Thorpe 077955 12935 01252 394 779</p>	<p>R&D Security, Energy & Defence, Environment</p>	<p>Qinetic are involved in a range of relevant technology sectors:</p> <ul style="list-style-type: none"> - Novel / Intelligent Cladding (currently working on London Underground) - Energy Metering & user/ Social Interaction/ Design tools (Virtual Energy Meters) - Intelligent networks
<p>Greenleaf Projects</p> <p>Nick Walker 07767 658 028 nick.walker@greenleaf.uk.com</p>	<p>Consultancy – Ecobuilders</p>	<p>Whole house retrofit (and new) using passiv-haus – based technology with extra innovations for heat and ventilation</p>
<p>East Thames Housing Group</p> <p>Pete Thompson Peter.Thompson@east-thames.co.uk</p>	<p>RSL</p>	<p>We have identified a number of our existing dwellings suitable for this project. Our new HQ is built to BREEAM ‘Excellent’ and we are committed to improving our existing housing stock of over 15000 homes in east London and Essex. Please contact me if you are interested in joining our consortia – we have a committed team.</p>

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<p>Integrated Environmental Solutions IES Ltd</p> <p>Sarah Graham – UK Business Development Manager. 07837 251 354 Sarah.graham@iesve.com www.iesve.com</p>	<p>Software Developer / Sustainable Building Design Consultant</p>	<p>IES is a leading UK software company producing 3D modelling and analysis applications.</p> <p>The integrated suite;</p> <ul style="list-style-type: none"> -links to Google sketchup -carries out Domestic and Non Domestic EPC generation -includes SAP calculation tools -carries out detailed analysis of buildings in terms of Energy consumption, solar performance, Daylighting, thermal comfort etc. -carries out capital vs. running cost analysis of different design scenarios. <p>Using real weather data the software can also be used to analyse future proofing / adaptation strategies applicable to existing stock against predicted future climate change scenarios</p>