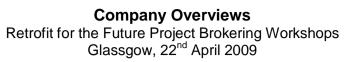


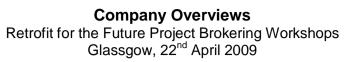


Company	Specialisation	Details
ASSIST Architecture	Architect	We are very experienced in social housing refurbishment.
Architectural Practice Douglas Taylor douglast@assistarchitects.co.uk		We have incorporated many innovative features, including Combined Heat + Power, Group Heating, Ground Source Heat pumps, sunspaces, "superinsulation" and mechanical heat recovery.
		We are very focussed on fuel poverty.
Manufacturer of bespoke timber windows and doors Stephen Wylie Stephen.wylie@blairsltd.co.uk	Manufacturer	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. Our reputation has been built on our ability to blend traditional craft skills with modern technology.  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.  Blairs can offer Secured by Design certification on its products as well as Chain of Custody.  Blairs is committed to developing the timber window industry. We are active members of the British Woodworking Federation Council and Technical Committees and are a founder member of the Wood Window Alliance. For further information, please visit <a href="https://www.blairsltd.co.uk">www.blairsltd.co.uk</a> or call the numbers above.
Camco Consultancy Daniel Mill	Consultancy	<ul> <li>Sustainable energy strategies and advice</li> <li>Creating low-carbon communities</li> <li>Renewable energy and low-carbon feasibility studies</li> </ul>



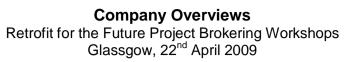


daniel.mill@camcoglobal.com Steven Downie steven.downie@camcoglobal.com		<ul> <li>ESCo development</li> <li>Energy efficiency advice and surveys</li> <li>Funding application hand-holding</li> <li>20 years of experience</li> <li>Climate Change Impact Assessments (carbon footprinting)</li> <li>Carbon Management</li> </ul>
Chap Construction  Building & Civil Engineering Contractor Douglas Thompson dthomson@chap.co.uk	Engineering Contractor	Chap Construction are an All-trades Building Contractor, based in the North East of Scotland, but trading through Angus, Dundee and Tayside. We have extensive experience in the field of Social Housing Construction, specifically in the Aberdeen and Aberdeenshire areas, and seek to expand our operations in to the areas noted above.  As part of the Devanha Framework, we understand the drivers for the RSL's and have been actively involved in researching the economics of various forms of MMC for the Partnership.  Chap carry out large and small scale capital works, and are also very much involved in the general term maintenance market, with Key Clients such as NHS Grampian, Aberdeen University and Total Oil and Gas.  We are also at the early stages of development of a Ground Source Heating System which is particularly suited to the retro-fit market, and need to establish if a market for this technology is sustainable.
Clark Eriksson Associates Ltd.  Project Management & Professional Design David Davies david.c.davies@clark-eriksson.co.uk	Project Management	Clark Eriksson can offer the following professional design services:  Civil/Structural, Piping/Mechanical, Vessels, Instrument/Electrical, Process/Chemical and Safety Health & Environment.
Dumfries & Galloway Housing Partnership	Social Landlord	<ol> <li>We are planning to retrofit four 1913 1 bedroom flats out of 33 homes in the project to "eco" standard- what standard should we aim for?</li> </ol>



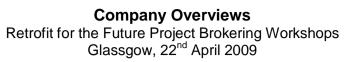


Social Landlord Mike Trant  Mike.trant@dghp.org.uk		We are currently in the process of procuring a large rural heating project (no access to gas mains). Should we set minimum air/ground source equipment in use/live in UK period (e.g. 3 years as part of our specification?
David Livingstone Centre for Sustainability  University of Strathclyde Dr David Grierson d.grierson@strath.ac.uk	University	The David Livingstone Centre for Sustainability (DLCS) at Strathclyde promotes and undertakes a visionary programme of cross-disciplinary research and postgraduate teaching relevant for the 21 <sup>st</sup> Century. The Centre aims to provide new scientific and technological solutions to societal and environmental stresses imposed by global climate change, population growth, consumerism and poverty. It is recognised that sustainability is primarily people focussed and as such the Centre will aim to integrate societal and cultural issues with scientific and technological solutions. In order to achieve the important objectives of the programme, it has been recognised as essential to have the structured participation of academic staff from all Faculties of the University (Strathclyde Business School, Education, Engineering, Law, Arts & Social Sciences, and Science) together with input from the Central Administration Services of the University. The Strategic Plan for the University provides the guidelines for the development of this multi-Faculty initiative. The Centre is advised by a Panel of eminent individuals, primarily, but not exclusively from within the Scottish community, who have expertise and a declared interest in sustainability.  Advancing Buildings and Concepts UNDERPINNING SUSTAINABILITY (abacUS The Department of Architecture's contribution to research underpinning activity within the University-wide DLCS is articulated and co-ordinated through one of the Department's main research themes i.e. abacUS. abacUS operates clusters within which staff and PGR students focus on design, technology and sustainability, aligned with the Faculty Research Strategy:  Ø Sustainability: (e.g. Efficiency in Energy, Resources & Infrastructure, Creating & Managing Sustainable Environments)  Ø Technology: (e.g. Innovation in Structure & Materials, Communication &



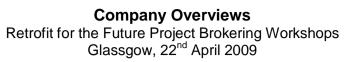


		Information Technology) Ø Design: (e.g. Increasing Accessibility, Health in Buildings and Cities)
GDP Associates  Start up Material Design Company	Material Design	Novel materials for sheeting, cladding and worktops made from 100% recycled material, developed at Strathclyde University.
Derek Ross derek@rosslandsolutions.com		Working in conjunction with Alt Space Ltd, GDP Associates are developing an innovative new eco friendly product intended for use in the construction industry.
		Aimed at both new-build and refurbishment sectors the product will compete with and hopefully out perform current available product types. Its unique selling point begins with all components used in the production being resourced from 100% recycled materials.
		The team see this as a high performance, commercially viable product being developed for metal and timber stud partitions as well as ceilings, direct bond and structural steel framing.
		The system promotes further durability by providing for the refurbishment of buildings, so prolonging their serviceable life and reducing environmental impact. At the end of its life our product will be fully recyclable into new product.
		Preliminary tests are now underway to assess such key criteria as strength, fire resistance properties, thermal performance and acoustic performance.
Dunbritton Housing Association  Social Landlord Claire Connor cconnor@dunbritton.org.uk	Social Landlord	As a Social Landlord, we are committed to make every effort possible to provide sustainable, energy efficient homes for our tenants. The solution in terms of renewable energy for new developments is more achievable; however the challenge we face is obtaining finance, direction and sound advice to enhance our existing stock through retrofit renewables.
		We are keen to pilot Exhaust Air heating systems both retrospectively and for a new



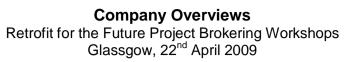


		build development, however advice given to date has been conflicting – any assistance would be greatly welcomed!
Dundee College  Further Education Chris Ashe c.ashe@dundeecollege.ac.uk	Further Education	Dundee College has shown leadership in the use of renewable energy technologies and energy efficiency measures on its own estate and curriculum. To date the College has been successful in achieving a Knowledge Transfer Partnership KTP (the first FE institution in Scotland), grant through (BERR UK) in collaboration with McGill Electrical, and development of short course provision for industry Dundee College, Centre for Construction & Built Environment works across many stakeholders and external partners to facilitate the essential communication paths necessary for successful dissemination of innovative methods of construction. We see the project as an opportunity for us to review current practice & policy and implement shared techniques to increase Eco-Methods of construction and possibly development of uniform policies.
		The Centre for Construction & Built Environment is a major partner in a €6.5M North Sea Region (NSR) Interreg IVb funded transnational project to change the way we plan, design and build in Northern Europe. The aim of the "Build with Care (BwC)" project is to mainstream energy-efficient building design by collaborating with the building sector, to develop a transnational strategy for increasing energy efficiency in building. The core message of BwC is that energy efficiency is no longer an 'ifquestion', but a 'how-question'. The project aims to change behaviour in the complete building chain (from consumer to planner, from carpenter to architect). By this means it will make a significant contribution to the CArbon REduction obligations in Europe.
		Our involvement is to provide education and training designed to ensure that craftsmen, technicians, builders, system designers, architects and developers have the knowledge and skills training to produce energy efficient buildings. A number of other institutions in England, Scotland, Germany, the Netherlands, Belgium and Sweden will collaborate on the development of a series of packages and modules that will become standard teaching tools covering primary to university level education.



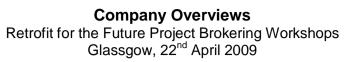


		Our current activity in the Interreg Ivb Build with Care above involves working with partners to mainstream low energy building by offering new construction techniques such as PassivHaus and obtaining energy reduction in new houses or public buildings as well as in retrofitting existing.  The Centre is looking to partner housing associations local authorities etc in developing the capacity of affordable eco homes/buildings.
EarthEnergy Ltd  Renewable Energy Contractor Tim Rutherford t.rutherford@earthenergy.co.uk	Renewable Energy Contractor	Design and supply of efficient, low cost Ground Source Heat Pump systems for space heating and hot water.
East Kilbride Development Trust  Social Enterprise Kirsten Robb robbkirsten@yahoo.co.uk	Social Enterprise	We are working on a bid to the Climate Challenge Fund to retrofit East Kilbride & District Housing Association 450 Houses for maximum energy efficiency. Some properties are off the gas grid, others have a district heating system that needs replaced.
Environmental Building Partnership  Technology Provider Dr Mohammed S Imbabi msimbabi@ebpemail.com	Technology Provider	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.
		Energyflo <sup>™</sup> 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.



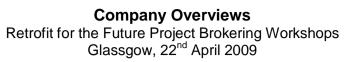


		Please contact us or visit <a href="https://www.environmental-building.com">www.environmental-building.com</a> for further information.
Fife Council Building Services  Contractor Working with Social Landlord Steve Anderson Steve.anderson@fife.gov.uk	Social Landlord	We are undertaking the Housing Investment programme to meet the SHQS by 2015. We are aiming to be the leading green council and are looking for products that will help to improve the carbon footprint, energy savings, waste reduction, product recycled content and sustainability of the councils housing stock.
Forth Construction  Business Support Martin Reid Mreid@clacks.gov.uk	Contractor	We have over 330 members companies and so can offer a platform for getting the information out to a mass audience.
Fulcrum Consulting  Consulting Engineers  Kenny Allan  kenneth.allan@fulcrumfirst.com	Consultants	Fulcrum Consulting is a leading international firm of consulting engineers, delivering fully integrated, minimum environmental impact, building services and infrastructure designs. We have a long term interest and expertise in low energy and sustainability and believe that the rational application of cost, performance and quality drivers leads to reductions in waste and carbon emissions. We take a lead in controlled innovation, researching and identifying technologies and working in partnership with suppliers to integrate these into exemplar designs.  Fulcrum Consulting are founding members of the UK Green Building Council and members of: ACE; BSRIA; CIBSE; AECB (Sustainable Building Association). We have
Glasgow Caledonian University	University	engineers accredited with: CarbonLite Passivhaus Planning Package; Carbon Trust Consultants; CIBSE Low Carbon Consultants.  Wide ranging testing facilities including an Environmental Chamber.



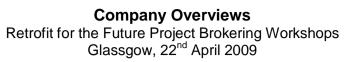


University Prof James Somerville iso@gcal.ac.uk		Access to highly experienced staff and a broad network of connections.  Detailed knowledge and expertise in materials and process testing and development.  Broad ranging test equipment and apparatus.  Expertise in problem solving and development of innovative solutions.  Proven Knowledge Transfer and Research funding management.  Highly developed Project Management skills.  Successful fund acquisition and proven spend management.  Best, pure built environment, Research Assessment Exercise (RAE) rating in Scotland.
Glasgow Caledonian University University Dr Ing Liang Wong IngLiang.Wong@gcal.ac.uk	University	Renewable energy for building application (passive solar energy design technologies).  Building energy assessment for the production of energy performance certificates to comply with EC's Energy Performance of Building Directive.  Building energy performance simulations.  Life cycle cost analysis for energy efficient products or buildings Sustainable issues in built environment.
Historic Scotland  Government Organisation Moses Jenkins Moses.jenkins@scotland.gsi.gov.uk	Government Organisation	We are not a Social landlord but are interested in innovative solutions to the problem of increasing energy efficiency in traditionally built structures. Primarily this would focus on insulation for non-cavity walling and roof space and glazing solutions which maintain the integrity of the original windows. The challenges that we face are how to improve energy efficiency in a building without radically altering its appearance and



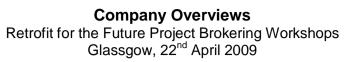


		lose original fabric.
Integrated Environmental Solutions  Technology Provider Craig Wheatley Craig.wheatley@iesve.com	Technology Provider	IES (Integrated Environmental Solutions Ltd) are a world leading software and consultancy company specialising in sustainable building design. IES have been instrumental in increasing the profile of sustainable building design through analysis software. Founded 14 years ago IES's robust and proven software has already become the most respected analysis package in the UK.
Kirk Natural Stone Developments  Natural Stone Supplier Dr Martin Kirk martin@kirknaturalstone.com	Manufacturer	We offer low cost natural stone facing systems in either sandstone or granite, which can be used to transform street facades by retro-fitting to structurally sound but tired looking buildings, or to enhance and prolong the appearance of new buildings. We observe that far too many buildings, including housing, schools and healthcare are constructed using cheap materials which weather badly and result in demolition and total reconstruction on timescales of 30-40 years or less. We also observe regularly that the mistakes in the selection of facade materials made in the 1960's and 1970's are still being made in '21st century' buildings, with the extensive use of timber cladding and harled concrete blocks.  Our thin (20mm) natural stone facing systems provide a building solution which is sustainable in the long term, creates architecture to make buildings look desirable to live and work in, and like the magnificent stone facades we see in many Scottish cities, in 200 years+ will still be looking good and in service.
Kraft Architecture  Architectural Practice & Research Bruce Newlands bruce@kraftarchitecture.co.uk	Architects	kraft architecture is an award winning architecture & research practice. We create innovative design solutions for the built environment.  We embrace sustainability in its broadest terms through our design process.  We believe that fuel poverty is the key driving force behind the widening inequality gap between parts of our society. The best way to reduce this divergence and bring equality to all is in capital investment in passive design principals including an enhanced thermal envelope, heat recovery ventilation, low carbon onsite energy



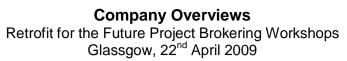


Lovell Partnerships  Contractor / Developer Jim Coleman Jim.coleman@lovell.co.uk	Contractor	generation & communal heating systems.  We take a "whole life view" regarding the specification of building construction materials and the selection of renewable technologies.  Working collaboratively with our partners CCG (Scotland) Ltd and The Robert Gordon University, we can help you realise an innovative holistic design solution that will tackle fuel poverty & reduce carbon emissions whilst improving the overall quality of your housing stock.  We have the skills and knowledge to bring together a wide range of technologies, professional & academic expertise, construction experience and post occupancy monitoring.  Lovell Partnerships works only with RSLs and Local Authorities refurbishing over 18,000 homes annually to meet the SHQS Standards and in the Decent Homes Initiative and providing over 2,000 new homes annually in mixed tenure developments.  We can offer experience of refurbishing a wide variety of properties including pre and inter war tenements and two storey buildings; properties built in the sixties including two storey houses and three and four storey walk up flats and including multi storey blocks.  We have refurbished many non-traditionally constructed buildings including SNHC, BISF, Orlits etc.  Our experience includes working with tenants remaining in their homes and where they have been decanted.
Mitsubishi Electric	Manufacturer	Currently working and supplying Air Source Heat Pump Packages to L/Authorities/Housing Associations UK Wide. Been working with Scottish Gov/DECC



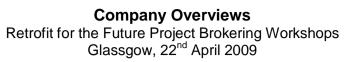


Manufacturer Bruce McGregor Bruce mcgregor@blueyonder.co.uk		regarding packages to reducing fuel poverty. About to launch CHP – Air Source Heat Pumps/PV Panel Packages also working up whole life costs for sustainable maintenance packages.
Edinburgh Napier University  University lain McEwan i.mcewan@napier.ac.uk	University	Edinburgh Napier University has national and international recognised experts covering:  • Construction product research and development • Development of technical standards, robust details and building regulations • Building diagnosis and material performance • Sustainable construction  Energy  Developing low and zero carbon technologies (LZCT) including wind, micro-hydro, biomass, CHP, fuel cell and solar energy, and provision of commercial technical support services; with specific strengths in the field of energy diagnostics and modelling and renewables integration.  Acoustics  Sound insulation testing and architectural acoustic design, industrial noise reduction, environmental noise and vibration control, noise mapping, air tightness testing and laboratory acoustic testing of materials  Timber Engineering  Design and construction of timber structures, specification and use of UK timber, use and development of new materials and technologies, structural performance and analysis and dynamic behaviour of timber structures  Infastructure  Building Performance, Infrastructure and Environment, Sustainable Development, Sustainable Energy
Ore Valley Housing Association  Social Landlord Nicholas Clarke nclark@orevalleyha.org.uk	Social Landlord	We are working on a number of projects relating to housing development, business incubator units and renewable technologies (both small scale and large).  We are interested in sourcing companies that can assist with our implementation processes, particularly maintenance of our properties and supply and fitting of small



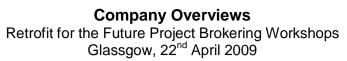


		scale domestic renewable devices such as solar thermal panels and microwind turbines.
		Our larger scale works will be tendered but are keen to source partners for the smaller, 'proof of concept' developments we have planned.
Ventrolla Scotland / Sashworks	Contractor	Sash window specialists – timber case and sash windows
Sash Window Specialists Vin Harris & Bruce McGowan vin@sashworks.co.uk		We can make and install new sash windows but generally we are able to retain the existing original windows and improve their performance to modern standards without compromising the traditional appearance.
		Suitable for Listed Buildings and Conservation areas.  Draught proofing sash windows to highest requirements of BS6375.  Double glazing to exceed the insulation requirements of Part J & L.
		Our service is available throughout Scotland and the rest of the UK.
Scottish & Southern Energy	Energy Provider	Funder of energy efficiency measures and installation capability of microgeneration technologies.
Energy and Services Supplier Nigel Ellis nigel.ellis@scottish-southern.co.uk		Investor in cleantech "partners" including solar, heatpumps, smart-metering, home automation, fuel cells etc.
University of Strathclyde Architectural Department	University	The Department of Architecture, University of Strathclyde, undertakes high quality research and consultancy work, that informs government and the construction industry's policies and practices, within the following thematic areas:
Research Nina Barker <u>Nina.baker@strath.ac.uk</u>		<ul> <li>Advancing Buildings and Concepts Underpinning Sustainability (abacUS)</li> <li>Cultural studies</li> <li>Design thinking and practice (KRAFT)</li> <li>Urban Design Studies Unit (UDSU)</li> </ul>



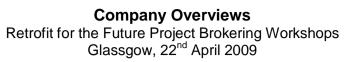


		We are in the strong position of being staffed by 14 full time academic staff and about 40 part-time staff from many leading architectural practices. While architectural practitioners are contracted primarily for studio design tuition and the delivery of specialist subjects within the taught class programme, they also offer a unique resource for engagement with Practice Based Research.  Many of our research projects are inter-disciplinary, allowing context-specific blending of architecture, design, environmental, social and economic expertise. Much of architectural practice is experimental, practice-based, involving the development and use of new materials and applications, innovative practices and pioneering social engineering. We are also available for consultancy work.
SummitSkills  Sector Skills Council lan Stirrat ian.stirrat@summitskills.org.uk	Skills Council	SummitSkills is the Sector Skills Council for Building Services Engineering representing employers in Electrotechnical, Plumbing, Heating, Ventilation, Air Conditioning, Refrigeration and Building Services Consultancy.  We have recently developed National Occupational Standards (NOS) for Environmental Technology Systems for both Operatives and the Design and Management of Microgeneration Systems. At present working with industry partners and the Scottish Qualifications Authority to develop individual competence based technology qualification units to upskill the existing workforce to become competent and accredited to install and maintain the range of microgeneration systems.
QTeknology Ltd  Energy Saving & Installation Company Jude Torley jude@unicorninter.com	Manufacturer	Thermstopper this is a device that can be fitted to existing heating systems, oil and gas,it controls, monitors and records the firing cycle of the burner. The Thermstopper provides space heating only when required offering fuel savings from 15% - 30%.  External Insulation Board. This is a prefinished light weight (10kg/m2)external board 80mm thick, it comes in



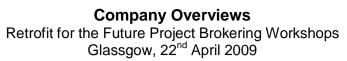


		size 1mtr x 1mtr.  Can be fitted on site regardless of weather conditions, reduces installation times by up to 75%. Easy to repair, choice of 100 colours available all applied under factory controlled conditions  Upgrades existing buildings and reduces energy costs by 30% +
The Wise Group  Social Enterprise Loraine Gray Loraine gray@thewisegroup.co.uk	Social Enterprise	The Wise Group is a major social enterprise which has been operating across Scotland and the north east of England for the last 25 years. The organisation assists unemployed people into sustainable employment through personalised support, training and work experience programmes. We also work with communities to regenerate neighbourhoods through a range of initiatives aimed at improving the physical environment and promoting sustainability.  We currently offer a range of services around energy efficiency and the relief of fuel poverty. At present we are working with East Ayrshire Council in the delivery of loft insulation to tenants to make their homes more energy efficient and reduce fuel bills. We have also previously worked with GHA to assist them in improving the energy performance of much their stock. This entailed provision of energy audits and installation of draft proofing measures and loft insulation. In Renfrewshire we have worked with a range of RSL's and private landlords and householders to promote energy efficiency and help improve the energy rating of properties. Again, this has included installing measures such as draft proofing and loft insulation and providing advice to householders.  The Wise Group brings a wide range of knowledge and expertise to any potential partnership. We have a proven track record in the promotion of energy efficiency and have worked in partnership with local authorities, RSL's and private householders to improve the energy performance of their homes. We have a well trained and motivated workforce who have the capacity to deliver the changes and improvements required to all types of stock.
Excel Industries Ltd	Manufacturer	Manufacture environmental negative carbon insulation made from 100% recycled newspaper.
Mandy Wilkinson		поторарот.





mwilkinson@excelfibre.com		
Thenew Housing Associaton  lona Taylor 0141 550 3581 lona.taylor@thenewhousing.org.uk	Social Landlord	Looking for heating solutions for 200 electric properties.  Overcladding – pilot project 09/10
Herriot-Watt University  David Jenkins  D.P.Jenkins@hw.ac.uk	Academic	Modelling of domestic properties using steady-state TARBASE model (see <a href="https://www.tarbase.com">www.tarbase.com</a> ).  Series of demand-side and supply-side (i.e. microgeneration) models available, based on the 4 year TARBASE project.  Model has been applied to Historia Scatland project (EMTISH) for traditional Scatland.
National Physical Laboratory	RTO	Model has been applied to Historic Scotland project (EMTISH) for traditional Scottish dwellings, identifying suitable avenues for CO <sub>2</sub> reductions.  Specialists in Thermal Performance Measurement
Ray Williams	RIO	Support measuring/monitoring of thermal performance of individual structures / components  Validate thermal models
John Gilbert Architects  Gillies MacPhail 0141 5518383 enquiries@johngilbert.co.uk	Architects	John Gilbert Architects have a record of developing innovative low energy solutions for our projects. Through our work with housing associations and other community groups we met the requirement to deliver sustainable buildings at low cost.  Our past projects include innovative low energy retrofit work, and we know the specific problems involved.  Innovation has required that we conduct our own research. We have co-authored the SEDA design guides on air tightness and toxic chemical reduction in new and retrofit buildings and our use of new natural construction products and low energy technologies, as they become practical, is also a core ecological design value.  Our experience makes us well positioned to identify opportunities for pragmatic innovation with retrofit projects.
FBN Architects	Architects	22 years experience in social housing.





Richard Hands 0141 353 0500 r.hands@ftnarchitects.co.uk		Working with contractors for the design and procurement of overcladding projects for Glasgow Housing Association.  Experienced in major full refurbishment projects ranging from existing tenements through to listed buildings and working within conservation areas.  Currently developing retro-fit construction methods alongside zero-carbon new build.
Physics Consultant	Consultants	Freelance Physics Consultants Doctorates in physics
Dr Wiseman, Dr Aitchison		Experience in industry
Bruce.wiseman@gmail.com		Experience in Building Trade
MacTaggart Construction Ltd  Roddy McDonald 01294 832 195 roddy@mctaggartconstruction.co.uk	Contractor	All trades building contractor providing construction services to the social housing sector.
1-4-All Trades  1.4.all.trades@gmail.com	Contractor	Complete internal fitting experience. Experience with green technology East End of Glasgow