



## **East Harbour Management Services**

can provide expert advice on

## **Building Energy Management**

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East Harbour Management Services (East Harbour) has a number of staff who have undertaken a number of projects related to improving the energy efficiency of buildings. These projects have either been undertaken through direct employment or under contract to government and private sector entities.

East Harbour will be a major team member in this project and will be providing significant input based on their experience of energy management and as project managers.

East Harbour has a long history in the New Zealand energy sector with direct experience in the development and implementation of energy efficiency policy in the domestic and commercial sectors. The East Harbour team assembled for this project also have extensive experience in the delivery of the Energy Efficiency & Conservation Authority (EECA) grant funded residential energy efficiency programmes (from within EECA and externally as delivery agents of the programme), and in working with several of the national energy supply and distribution companies on the delivery of residential energy efficiency initiatives. The team is also experienced in the development and philosophy behind the use of national and international home energy rating tools with direct experience of the leading home energy rating schemes in place or under development in New Zealand, Australia, and in the United Kingdom.

East Harbour has also been closely involved with commercial building energy management for many years and has extensive experience in the development of clear and precise documents in the form of reports and resource kits. East Harbour has been instrumental in developing resource materials for the solar energy and bioenergy sectors. These have been in the form of case studies, pamphlets, codes of practice, instruction manuals, and reports of potential growth.

East Harbour are specialist project managers of energy projects and have worked with requirements for new buildings (commercial and residential) as well as projects to improve the sustainability of existing buildings. They are currently assisting the Department of Building and Housing on several energy efficiency in buildings projects, undertaking a review of the energy efficiency characteristics of the New Zealand housing stock, and are lead manager in the production of an Energy Auditors Handbook. This work highlights their skills in co-ordinating resources and providing the input and control necessary for the successful completion of such a project.

East Harbour collectively has a strong history of both working closely with EECA and with other leading New Zealand Housing organisations both within government and outside. They have solid backgrounds in the residential energy efficiency sector with a sound knowledge of all aspects of energy use in buildings. Members of the proposed team also have leading experience in the development and implementation of householder surveys in a social context and, in particular, residential housing projects with a community focus. Stephen Ward and Connie Crookshanks have previously worked at EECA. Stephen has worked directly on the development of and implementation of programmes aimed at improving the energy efficiency of householders in New Zealand. Stephen and Tim Armstrong are currently assisting the Department of Building and Housing with alterations to the Building Code with regard to residential and commercial buildings.

East Harbour works for both commercial and government clients and is able to integrate policy, project technical, economic and environmental parameters, with community aspirations.

East Harbour has access to an extensive source of information through the Energy Library [www.energylibrary.org.nz](http://www.energylibrary.org.nz) (an associate company). It is able to efficiently collate technical and other information to meet customer requirements.

East Harbour has developed a portal search engine for **web-based energy information** access. The EnergyInfoNZ site ([www.energyinfonz.co.nz](http://www.energyinfonz.co.nz)) has links to the bioenergy industry, manufacturers, and suppliers.

#### **Brian Cox**

Brian has over 20 years' experience in strategic energy policy development, project management, and commercial investment in industrial energy projects. He has undertaken a number of studies into the energy use of manufacturing plant and residential homes. He is a regular speaker to a range of community groups on energy matters.

Brian is the Executive Officer of the Solar Industries Association and recently presented to the Energy Management Association of New Zealand on 'How Home Energy Rating Schemes Can Increase Energy Efficiency Initiatives'<sup>1</sup>. He is a member of the Solar Standards Committee and is currently assisting the Department of Building and Housing write an Acceptable Solution to Clause G12 of the Building Code for hot water system installation. He is also writing a Guidance Document for installation of Solar Water heating systems. He has been instrumental in getting the adoption of a New Zealand standard for measuring the energy performance of hot water systems which is currently being finalised.

#### **Connie Crookshanks**

Connie is an energy consultant by training with extensive experience in consultancy and policy in the energy sector. She has experience in the development of environmental and corporate social responsibility reports in the United Kingdom energy sector, in particular for gas retail and distribution companies (BG plc and Transco) and electricity transmission company National Grid. She also has first hand experience on demand side participation projects (project manager for EECA's demand response initiative 2003) and she also has experience in a number of EECA led community energy projects in New Zealand.

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<sup>1</sup> 'How Home Energy Rating Schemes Can Increase Energy Efficiency Initiatives', Brian Cox Executive Officer, Solar Industries Association, Presentation to Energy Management Association of NZ, 30 May 2006.

Connie was employed by Energy Smart in early 2005 to develop home energy efficiency schemes (EECA EnergyWise home grant funded and privately funded) across New Zealand.

Connie has worked extensively for one of New Zealand's leading domestic energy efficiency companies, i.e. EnergySmart in Tawa, and has first hand knowledge of the issues New Zealanders face with respect to heating their homes efficiently and the measures they undertake to do so. She was involved in the development of new stakeholder relationships and the planning of community energy efficiency programmes supported by EECA's EnergyWise Grant Scheme.

Whilst working at East Harbour, Connie has been involved in the Tairāwhiti Regional Energy Assessment, the Assessment of the Environmental Performance of the Electricity Commission by the Parliamentary Commissioner for the Environment and she has also carried out a study for the New Zealand Climate Change Office on the business opportunities arising from the Government's policies on climate change and renewable energy.

Connie has worked on energy efficiency policy both at EECA and in the United Kingdom where she managed a team of three people working on fulfilling the energy efficiency improvement obligations of the City of Edinburgh Council as specified in the United Kingdom's Home Energy Conservation Act (HECA). Most recently she has been involved in the issues around the implementation of the European Directive – Energy Performance of Buildings and the associated requirement for Energy Performance Certificates.

Connie is currently managing an EECA project to document the Energy Efficiency Characteristics of New Zealand Housing Stock

### **Stephen Ward**

Stephen is a Strategic Energy Consultant at East Harbour. Stephen worked with EECA as a Senior Advisor – Residential Programmes. Stephen provided technical support to the EnergyWise Home Grants Scheme and also worked on the development of a Home Energy rating Scheme (HERS). Stephen managed the delivery of a study of a cost benefit analysis on HERS in New Zealand.

Stephen has been working for East Harbour since 2005. He is currently on a part time secondment to the Department of Building and Housing where he is managing a project to evaluate and implement proposed changes to the energy efficiency clause (H1) of the New Zealand Building Code.

Stephen's work experience spans the public and private sectors where he has worked for electricity generators, retailers, end users, and government where he has undertaken building energy audits and monitoring the energy performance of solar installations. Stephen was the author of EECA's Energy Monitoring and Targeting Guide published in 2002 and his experience with this work is valuable.

### **Tim Armstrong**

Tim has extensive experience in facility and energy management and brings to the East Harbour team the understanding of how the commercial building owner thinks and what assistance they require to implement good energy management systems.

Tim is presently part time working with the Department of Building and Housing in helping the department develop new energy efficiency initiatives in the New Zealand

Building Code. Possible initiatives include the requirement of energy recording and monitoring in commercial buildings, and commissioning and operating requirements for building HVAC systems. This work compliments a current EECA project developing a new energy management guide.

Tim has previously owned and managed a brewery and was Facilities Manager at Victoria University of Wellington. During his time at Victoria University, Tim was instrumental in developing a energy management programmes and his on-going work was recognised by his being Energywise Energy Manager in 2004.

Tim undertakes monitoring and provision of energy management advice to a number of government agencies and commercial building owners.

## **Staff**

East Harbour has over 20 staff working in the energy area. Key staff with an energy in building focus include Brian Cox, Connie Crookshanks, Stephen Ward, and Tim Armstrong.

Please contact us for further information or with any enquiries that you may have.

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