



East Harbour Management Services

can provide expert advice on

Housing Related Energy Issues

East Harbour undertakes commercial and strategic projects for a range of key players in New Zealand's energy and housing sectors. Increasing interest in the efficient use of residential energy has led to a need for a broad range of energy based skills for application to the housing sector.

East Harbour is a leading New Zealand company involved in a wide range of energy projects, with a focus on strategic and commercial issues. It's staff have technical backgrounds which enable them to make necessary links between commercial and technical issues. Key staff also have extensive experience in energy and housing policy development and are regularly seconded to government departments.

In previous roles, East Harbour staff have undertaken a wide range of housing focussed projects including:

- The development and implementation of local authority energy efficiency campaigns
- Interaction with tenant housing groups and landlords (including housing trusts, private landlords, and state owned housing) on energy issues
- The development of pilot scale renewable energy projects for residential use
- The management of residential energy efficiency government programmes
- The management of government retrofit insulation programmes
- Strategies for increasing the uptake of solar and heat pumps for water heating
- The development and implementation of Government Policy relating to insulation standards
- Preparation of building code compliance documents
- The management of retailer funded energy efficiency customer programmes

Staff have worked with a wide range of organisations with interests in housing, from community groups to energy retailers and lines companies, to deliver broad and specific energy focussed initiatives in New Zealand and overseas.

Some Recent Projects

Staff have been active in the development of the New Zealand Government **Home Energy Rating Scheme (HERS)** under contract to the **Energy Efficiency and Conservation Authority (EECA)**, and in the development of residential survey and questionnaire methodologies for **residential energy efficiency studies**.

Staff have been involved in the development of Government Policy (led by the **Department of Building and Housing**) to improve the **energy efficiency of new buildings** (Building Act and Building Code), and in the development of **compliance requirements and standards** for building insulation and the installation of residential **solar water heating systems**.

Staff have been working closely with EECA in the development of **solar water heating initiatives targeting the residential sector** in New Zealand.

Staff have been involved in the development of the **Hobsonville Land Company** development of new homes and, in particular, advising the developer of the potential approaches to **facilitate and maximise renewable energy and energy efficiency opportunities for the new housing areas and types including the development of a energy rating scheme that developers must work within and achieve, and also the development of a potential Energy Services Company (ESCO) to maximise energy benefits for future home owners and tenants alike**.

East Harbour staff are heavily involved in New Zealand's leading renewable energy associations holding the Executive Officer positions for both the **Bioenergy Association of New Zealand (BANZ)** and the **Solar Industries Association (SIA)**. Staff are involved in the development and facilitation of renewable energy solutions through both organisations, including the **development of compliance requirements and standards**, the **development of training courses**, and the **development of product and installation accreditation programmes**.

Key staff are **accredited energy auditors** and have key roles in the **Energy Management Association of New Zealand (EMANZ)**.

Focus Areas

- Strategic advisory and support
- Management of the investigation and development of housing development projects
- Energy policy development
- Energy auditing and advice
- Commercial electricity pricing and network charges
- Energy monitoring and management
- Commercialisation of projects
- Community consultation
- Residential energy efficiency surveys

Staff skills can be applied to many different disciplines and industries. The collective experience includes:

- Commercial strategy and investment planning
- Energy advice (commercial and residential)
- Renewable energy project development, e.g. wind, biomass, solar
- Project evaluation (technical, environmental, and commercial)
- Energy billing and network charges
- Energy management auditing and advice
- Database and information systems
- Web and portal development and maintenance
- Project management
- Business planning and implementation
- Commercial project development
- Policy, and strategic advice and implementation (corporate, local, and national government)
- Community consultation
- Executive and project manager leasing

East Harbour has access to an extensive source of information through the Energy Library 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) has links to the bioenergy industry, manufacturers, and suppliers.

Staff

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

Brian Cox

Brian Cox has 30 years' experience in large infrastructure projects (roading, large industrial, petrochemical) and over 16 years' experience in the energy industry. He has had extensive senior management experience, particularly in strategic advice and development groups. His primary role is the high level management of investigations to evaluate the technical, environmental, and economic viability of new business opportunities and, where appropriate, following them through to subsequent phases of development. He has managed the energy aspects of a number of industrial energy facility projects.



Connie Crookshanks

Connie Crookshanks has over 10 years' experience in the energy sector in New Zealand and in the United Kingdom. She has been involved in the development of energy efficiency campaigns at local authority level and has also been involved in the reporting of energy efficiency improvements made in local housing stock on an annual basis. She has direct experience in energy policy development in New Zealand and in

particular on investigations into the residential use of gas and on the opportunities for demand side management at the consumer level. She has worked extensively with a wide range of community groups on energy efficiency issues. She has worked previously at the Ministry for the Environment on energy policy and at EECA on residential and small scale commercial programmes. She has also managed projects investigating the use of home energy rating schemes in New Zealand and in the United Kingdom.

John Rutherford

John has over 30 years' experience in the electricity industry on transmission, power projects, and related infrastructure. His skills have been used extensively in work with local authority and private development housing projects in the development of transmission and distribution options. He has significant experience in negotiating access for investigations and easement options for electricity generation and transmission options for a range of technologies, including wind, hydro, thermal, and geothermal. He has advised a number of clients on transmission related issues. He has been involved in engaging and managing consultants to undertake specialist tasks in the environmental, technical, legal, financial, property purchase, administrative, and regulatory fields in relation to energy projects of a housing nature.

Stephen Ward

Stephen is a Mechanical Engineer (BE Mech) with 15 years experience focusing on energy management and strategic energy advice. His work experience spans the public and private sector where he has worked for electricity generators, retailers, end users, and government.

Most recently Stephen has worked at EECA on residential energy efficiency initiatives. This involved significant policy and operational changes to better align the outcomes of these interventions with the National Energy Efficiency and Conservation Strategy. He was involved in the management of policy development initiative for a national home energy rating scheme whilst at EECA. He is currently involved in work for the Department of Building and Housing as part of the review of the Building Code. In particular he is involved in the development of compliance documents relating to energy efficiency and acceptable solutions relating to solar water heating.

Further information may be found on the company web site: www.eastharb.co.nz

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