



## **East Harbour Building Energy Management**

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East Harbour is an energy-focused consulting firm that undertakes commercial and strategic projects for a wide range of organisations and businesses. We have a particular focus on strategy and plan development, and practical assessment and implementation, in the areas of energy management, energy efficiency and the reduction of associated costs.

We have extensive experience in the delivery of Energy Efficiency & Conservation Authority (EECA) grant funded energy efficiency programmes and in working with energy supply and distribution companies on the delivery of commercial and residential energy efficiency initiatives. Team members are also experienced in the development and use of national and international energy rating tools, with direct experience of such schemes in New Zealand, Australia, the United Kingdom and the Middle East.

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 reports, plans and resource kits. We have been instrumental in developing resource materials for the solar energy and bioenergy sectors in the form of case studies, pamphlets, codes of practice, instruction manuals, and reports on economics and potential growth.

### **Our building related focus areas include:**

- Energy-related commercial advice, strategy and plan development and risk assessment
- Feasibility studies: covering energy and electricity generation and use, and including alternative fuels and new technologies
- Residential and commercial building energy efficiency surveys, auditing, monitoring and management advice
- Electricity and gas pricing and network charges advice, and alternative fuels sourcing
- Project management of new developments
- Community and stakeholder consultation

### **East Harbour's building energy group can assist you in gaining:**

- Lower costs for energy, water, and waste
- Security of energy supply and reduced exposure to future energy cost rises
- Access to best practice and up-to-date technology expertise
- Reduced exposure to future cost escalation
- Reduced costs from carbon reduction and other environmental requirements
- Independent assessment of alternative energy options, project viability and commercial business-case preparation

### **Our business and team experience includes:**

- Projects covering the application, costs and technologies for all forms of energy: cogeneration, woodchips, pellets, heat pumps (air to air and ground sourced heat), geothermal, solar heat and solar-voltaic power generation
- Audits of commercial buildings, hotels, institutions and industrial facilities
- Management and supervision of solar water heating installation programmes, and photovoltaic generation

- Analysis and negotiation of energy supply contracts for tertiary institutions and commercial building owners
- Advice to developers on potential approaches to facilitate and maximise renewable energy and energy efficiency opportunities for new housing developments
- The development of pilot scale renewable energy projects for residential use
- The development of energy strategies and plans for commercial and industrial organisations
- Introduction of new lighting technologies and development of strategies for increasing the uptake of solar and heat pumps for water heating
- Assistance to tenant housing groups and landlords (including housing trusts, private landlords, and state owned housing) on energy issues
- The development and implementation of local authority energy efficiency campaigns
- Preparation of handbooks on energy auditing
- The recent revitalisation of the Energy Management Association, and its refocusing on wider energy areas

East Harbour also has its own extensive reference library and databases and access to extensive information through the Energy Library [www.energylibrary.org.nz](http://www.energylibrary.org.nz) (an associate company).

#### **East Harbour's building energy team:**

**Mike Suggate, Director:** Mike has more than 30 years' engineering and management experience, predominantly in the energy sector. This experience includes senior management positions in electricity generation, distribution and retailing businesses, and for an oil company. Mike also has wide management experience in manufacturing. Prior to joining East Harbour, Mike was general manager of a start-up energy business "Energy for Industry" which focussed on the provision of heat and electricity services from ownership and operation of on-site energy plant utilising renewable and fossil fuels.

**Brian Cox, Director:** Brian has over 30 years' experience in strategic energy policy development, project management, and commercial investment in industrial energy projects. He has undertaken a number of studies into energy use in residential homes, institutions and manufacturing plant. He is a regular speaker to community groups on energy matters.

Brian was the executive officer of the Solar Industries Association, a member of the Solar Standards Committee, and has written a "guidance document" for installation of Solar Water heating systems. He was instrumental in getting the adoption of a New Zealand standard for measuring the energy performance of hot water systems which is currently being finalised. He is also executive officer for the Bioenergy Association, with its links to the supply and use of wood fuels.

**Siegfried Zoellner:** Siegfried is an experienced commercial analyst and engineer in the energy sector, specialising in energy efficiency and renewable energy technologies and projects; including in recent years a focus on solar water heating and photovoltaic electricity generation. He has worked in a range of roles such as development engineer, business analyst and technical solutions manager for a number of energy businesses, predominantly in New Zealand and in Germany.

**Tim Armstrong:** Tim has extensive experience in facility and energy management and an understanding of the assistance commercial building owners require in implementing good energy management systems. He has undertaken monitoring programmes and provided energy management advice to a number of government agencies and commercial building owners.

Tim has worked with the Department of Building and Housing in developing new energy efficiency initiatives for inclusion in the New Zealand Building Code, and in the development of Green Building Regulations for Dubai.

Tim has 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 work was recognised by his being EECA Energywise Energy Manager in 2004.

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

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