



## East Harbour Management Services

can assist you with your

## Energy Cost Modelling

East Harbour undertakes evaluations and provides advice on commercial and strategic fuel, and energy resource availability and cost to a range of government agencies, industry and energy companies. Modelling of energy costs has featured strongly in many of the research and investigation reports written by East Harbour.

East Harbour's staff have technical and commercial fuel and energy resource experience that they can bring to your projects.

East Harbour's staff have had strong involvement in the commercial and industrial sector with experience including commercial strategy and investment planning, project evaluation, due diligence, industrial projects, and business management. With this highly flexible skill base, effective services are provided to a variety of organisations including government agencies, local authorities, manufacturers and energy suppliers.

East Harbour takes a professional structured approach to each assignment and adapts this to meet specific customer requirements. This is achieved utilising the unique mix of technical and commercial skills, and know-how to the benefit of all parties. It has specific passions in the fields of energy, industry and residential housing, with an aim and desire to promote sustainable business practices.

More specifically, East Harbour has investigated and developed new capital investments. It contracts to manage assets and investments on behalf of others and its experienced staff can secure contractual arrangements, develop and gain agreement on management programmes, and engage plant operators, maintainers and contractors as appropriate, together with undertaking routine administrative and accounting duties.

A particular strength of East Harbour is relationship management. It has a strong philosophy of engendering a sense of partnership between all parties and at the same time recognises the need for commercial disciplines.

Previous relevant experience includes:

- Technical investigation, commercial negotiation, development of biomass fuelled cogeneration facility
- Investigation of landfill gas opportunities and waste to energy facilities
- Water utilisation, wind, hydro, and geothermal development
- Evaluation of distributed energy opportunities
- Resource consents and liaison with publics affected by development

East Harbour's project advisors and consultants can assist you with:

- Strategic advisory and support
- Advice on energy markets
- Management of the investigation of fuels for energy projects
- Commercial fuel negotiations
- Energy resource monitoring
- Commercialisation of projects

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

- Commercial strategy and investment planning
- Energy market analysis and forecasting
- Energy pricing and inter-fuel competition
- Fuel technology and application, e.g. oil, gas, coal, and renewables
- Contract analysis, e.g. sale and purchase, production sharing, etc.
- Analysis of fuel and energy supply chains and costs
- Energy advice and auditing
- Renewable energy project development, e.g. wind, biomass, geothermal, and solar
- Development of regional energy strategies
- New and evolving energy technologies
- Project evaluation (technical, environmental, and commercial)
- Gas and coal market evaluations
- Database and information systems for fuel management
- Commercial project development
- Policy, and strategic advice and implementation (corporate, and local and national government)
- Executive and project manager leasing
- Project financial and economic analysis

Staff have been involved in domestic and international studies of:

- Natural gas market development and diversification
- Transport energy markets
- Oil product supply and utilisation in transport and industry
- Alternative transport fuels: gases and alcohols
- Electricity generation
- Mature and emerging markets, including non-commercial energy
- Emissions and greenhouse gas determinations

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 client requirements.

## Some Recent Projects

East Harbour prepared a recently published report for the Parliamentary Commission for the Environment “**Microgeneration Potential in New Zealand. A Study of Small-scale Energy Generation Potential**”, May 2006.

East Harbour recently contributed to a study by Castalia on Geothermal Resources in Indonesia for the World Bank.

East Harbour in conjunction with Scion prepared reports on renewable targets for bioenergy and geothermal energy for a government department.

East Harbour prepared a published report for Venture Southland, “**Southland Regional Energy Assessment**” and “**Energy Appendicies**” (November 2003). Energy assessments have been subsequently carried out for the Tairāwhiti and Rotorua areas.

East Harbour has prepared a report on the “**Availability and Costs of Renewable Sources of Energy: 2005 Edition**” for the Ministry of Economic Development. This is an update of a previous report which was published in July 2002.

East Harbour prepared a published report for the Ministry of Economic Development on the “**Costs of Electricity From Fossil Fuel Fired Generating Plant**”.

A report for the Ministry of Economic Development on an aspect of the **gas industry**.

A report on electricity generation plants as substitutes for transmission lines.

Contributed to reports detailing **gas and coal quantities and delivered energy costs**.

East Harbour worked with a major retail company to identify additional distributed on-site electricity generation sources, **negotiate contracts** with the owners, and coordinate the generation during the 2001 water shortage.

East Harbour prepared a technical note explaining the adjustments made between the 2002 reports and the Outlook for the Ministry of Economic Development. “**Availabilities and Costs of Sources of Energy for Generating Electricity: Technical Note**” [Published in October 2003 ]

East Harbour were joint authors of the Energy Efficiency and Conservation Authority Commissioned reports “**Bioenergy from Woody Biomass in NZ**” (with *ForestResearch* and Massey University) and “**Review of NZ Wind Energy Potential to 2015**” (with Montgomery Watson and PB Power).

## Staff

Key staff with an industrial energy focus include Barrie Wilkinson, John Rutherford, Brian Cox, Brian White, Stephen Ward, and Tim Armstrong.

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