



East Harbour Management Services

**can assist you with your
Transport Energy Matters**

East Harbour undertakes evaluations and provides advice to a range of government agencies and energy companies on commercial and strategic matters related to the availability and cost of transport energy.

East Harbour's staff have technical and commercial fuel and energy resource experience that they can bring to your projects. They have worked on transport energy internationally and locally over the last 30 years, having worked in the oil industry and participated in the Liquid Fuels Trust Board work programmes on LPG, CNG, and alcohol fuels. They also have been contracted to provide commercial advice to a number of international clients.

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

- Manufacture, supply and distribution of conventional and alternative transport fuels
- Comparative analysis of fuel utilisation and costs
- Fuel quality and specification
- New transport fuel technologies
- Transport fuel pricing
- Development of alternative fuels markets
- Assessment of transport fuels demand
- Assessment of emissions from transport fuels

This experience has been gained through employment in the oil industry, and participation in the evaluation and development of alternative fuels programmes in New Zealand and overseas.

East Harbour also has close associations with other transport fuels' specialists and can provide a full range of economic and technical consultancy services on:

- Conventional transport fuels such as petrol and diesel
- New fuels such as hydrogen
- Gaseous transport fuels, natural gas, and LPG
- Alcohols as alternative fuels or as blends in conventional fuels

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: sale and purchase, production sharing, etc.
- Analysis of fuel and energy supply chains and costs
- Energy advice and auditing
- Fleet operation and management
- New and evolving energy technologies
- Project evaluation (technical, environmental, and commercial)
- Fuel studies
- Gas 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
- Technology transfer and training

Staff have been involved in other domestic and international studies of:

- Natural gas market development and diversification
- Transport energy markets
- Oil product supply and utilisation in transport and industry
- Market implementation of new fuel technologies: production, distribution, and application
- 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 (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 fuels and energy resources.

Some Recent Projects

A report on an aspect of the **New Zealand gas industry** pricing and disclosure.

Participation in a comprehensive investigation on **wholesale distribution of automotive fuels in New Zealand**. The study evaluated the prospects for an independent oil company entering the New Zealand automotive fuels industry by importing refined products and setting up an independent distribution network. East Harbour's staff assessed the prospects and availability for importing fuels, fuel quality requirements and the requirements and costs for new distribution facilities, and provided the overall financial analysis for the project.

Participation in a detailed **assessment of the potential in the United Kingdom for utilising gas as a replacement for gasoline and diesel fuel** for environmental and commercial purposes, including the economic and financial analysis of the gas and conventional fuel options, pricing issues, fleet database analysis, as well as assessing impacts on gas and fuel supply and distribution.

Participation in a feasibility study and implementation plan for **utilising LPG and natural gas as vehicle fuels to alleviate the chronic air pollution problems in Bangkok**. The study included all aspects of implementing the fuels, identification of prospective and priority markets, assessment of their potential to mitigate the environmental problem, supply and distribution, and marketing, training and institutional needs.

Particular emphasis was placed upon the economic and environmental value of gas fuels amongst the energy resource base of Thailand, and its prospective supply shortages and reliance on gas imports (pipeline, LNG).

Two parallel studies which to develop baseline technical positions for the incorporation of **ethanol as a transport fuel option in Australia**. The first exercise to produce a set of **draft standards for the product quality specification of ethanol containing fuels**, and the second to recommend the **optimum blending technologies, logistics, and economics** for the incorporation of ethanol into the Australian transport fuels infrastructure.

Participated in the estimation and **long term forecasting of greenhouse gas emissions from the transport sector** under various technical, energy price, and economic scenarios. The project included the development of dynamic fuel consumption projection models incorporating the real fuel use variability of vehicles under different drive cycle conditions, the effects of varying engine technology developments entering the road fleet, and economic and transport supply and demand policy measures as they impact on national road transport fuel consumption. John Rutherford undertook the transport market analysis and impact of economic and policy instruments on total vehicle emissions.

Staff

East Harbour's key person with a transport energy focus is Barrie Wilkinson.

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

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