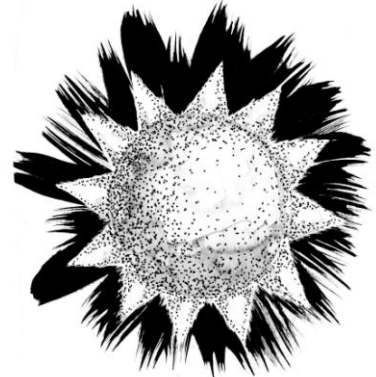


Energy Library Update

Jan 2008

Welcome to the first energy update for the year. Now might be a good time to remind you who makes up the Energy Library team:

Jackie	Manager
Bhanu	Information Advisor
Glenys	Information Advisor
Christina	Business Development Manager
Kat	Current Awareness Advisor
Laura	Library Assistant



design by Kat McAra

We look forward to helping you keep up to date with the latest energy and engineering information in 2008.

We can supply the resources listed in the Update to our members, for which there may be costs depending on the type of membership. If you would like any of the items just email us the title of the item or its reference code. Items in the Update are sometimes issued for two weeks instead of four due to high demand.

Non-members can access items from their institutional or public library via inter-library loan.

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New Books and Standards

Fundamentals of carbon capture and storage technology. (2007) London: Petroleum Economist

A very useful new publication on carbon capture and storage. A number of writers cover topics from the potential of carbon storage to the policy environment in Europe, the US and China. (To borrow this book email library@energylibrary.org.nz Ref: **0108-CCS**)

Towards a new global climate treaty: Looking beyond 2012. (2007) Boston, Jonathan ed. Wellington: Institute of Policy Studies

This book looks at critical policy issues that will need to be addressed during the forthcoming negotiations for an international post-2012 climate treaty. It also looks at the implications for New Zealand in areas such as energy, agriculture and forestry. Read the [media release](#).
(To borrow this book email library@energylibrary.org.nz Ref: **0108-Treaty**)

Lamp light to natural gas: A history of the New Zealand Institution of Gas Engineers. (2000) Veart, Albert. Takapuna: New Zealand Institution of Gas Engineers

The author documents aspects of the NZ gas industry and the role played by the professional gas engineers. It covers the early days through to the modern day deregulated industry.
(To borrow this book email library@energylibrary.org.nz Ref: **0108-Lamp**)

2007 World Atlas & Industry Guide (The International Journal on Hydropower & Dams)

This 348 page guide contains comprehensive data on developments in hydropower, dam engineering and water resources.
(To borrow this book email library@energylibrary.org.nz Ref: **0108-Atlas**)

AS/NZS 3000: 2007. Electrical installations (known as the Australian/New Zealand Wiring Rules). Visit the Standards New Zealand [website](#) to read the special notes about this standard.
(To borrow this standard email library@energylibrary.org.nz Ref: **0108-3000**)

AS/NZS 3017: 2007. Electrical installations: verification guidelines

(To borrow this standard email library@energylibrary.org.nz Ref: **0108-3017**)

AS/NZS 3019: 2007. Electrical installations: periodic verification guidelines

(To borrow this standard email library@energylibrary.org.nz Ref: **0108-3019**)

Electricity Governance (Connection of distributed generation) Regulations 2007: 2007/219. (2007) New Zealand Laws and Statutes. Wellington: NZ Government

(To borrow this item email library@energylibrary.org.nz Ref: **0108-Laws**)

Special Journal Issue

Asset management: Balance of power (*IEEE Power & Energy magazine*; Vol. 3 No. 3, May/June 2005). This special journal issue contains 4 articles on asset management for power companies including:

- Eight steps to optimize your strategic assets
- Time management for assets: chronological strategies for power system asset management
- One asset, one view - integrated asset management at British Columbia Transmission Corporation

(To borrow this whole issue email library@energylibrary.org.nz Ref: **0108-IEEE**)

New Management, Marketing and HR Articles

Something wiki'd this way comes. *People Management*, 12/13/2007, Vol. 13 Issue 25, p28-31, 4p

Discusses the pros and cons of using Internet technology in personnel management.

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Wiki**)

Are your engineers talking to one another when they should? Sosa, Manuel E. and others. *Harvard Business Review*, Nov 2007, Vol. 85 (11), p.133-142

Communication may not be on managers' minds at companies that design complex, highly engineered products, but it should be. When mistakes take place, it's often because product-component teams fail to talk. The consequences can be huge: Ford and Bridgestone Firestone lost billions by not coordinating the design of the Explorer with the design of its tires. To help managers mitigate such problems, the authors present a new application of the design structure matrix, a project management tool that maps the flow of information and its impact on product development.

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Sosa**)

Can you evaluate your own abilities? Robison, Jennifer. *Gallup Management Journal Online*; 11/8/2007, p1, 5p

The author interviews Professor David Dunning, from the Psychology Department at Cornell University. Dunning postulates why it is that people have a tendency to overestimate their own ability, explains how it can be detrimental and volunteers some suggestions for improving self-evaluation.

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Robison**)

A typology of the part-time workforce: Differences on job attitudes and turnover.

Martin, James E. and Sinclair, Robert R. *Journal of Occupational & Organizational Psychology*; Jun 2007, Vol. 80 Issue 2, p301-319

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Martin**)

A positive approach to workplace stress. Robison, Jennifer. *Gallup Management Journal Online*; 6/14/2007, p1, 5p

An interview with a social psychologist about the effects of chronic workplace stress and what can be done to manage it.

(For a copy of this article email library@energylibrary.org.nz Ref: **1107-Robison**)

Business without boundaries: Collaboration across organizations. Mankin, Don and Cohen, Susan G. *Journal of Organizational Excellence*; Spring 2006, Vol. 25 Issue 2, p.63-78

This case study describes the combined efforts of Deere & Company, several of its dealers and two technical colleges to design and implement programs for training service technicians. Together they achieve more than what one organisation could accomplish alone.

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Don**)

Seeing sooner. (cover story) Day, George S; Schoemaker, Paul J. H. *Marketing Management*; Nov 2007, Vol. 16 Issue 6, p20-27

Managers are exposed to a wealth of marketing data that they may scan only passively. As this material is often from familiar or traditional sources, their approach may give them a sense that they are in tune with the periphery, whereas they may only notice the data that reinforces their own beliefs (a well-known human tendency). A more vigilant approach is proposed.

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Day**)

Flying solo. Cook, Nick. *Occupational Safety and Health*; Sep 2007 Vol 37 (9) p.18-22

Working alone has become more common. The author explains that the health and safety risks of working alone need to be assessed and mitigated. He outlines how this can be done.

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Cook**)

Risk management and value management in project appraisal. Afila, D. and Smith, N.J. *Institution of Civil Engineers. Proceedings - Management, Procurement and Law*; May 2007 Volume 160 Issue MP2, p.63-67

The appraisal phase of the project life cycle commences with the inception of the project and ends with the sanction of the project for implementation. During the appraisal phase the key decisions on the viability of the project and the most feasible project option are made in sequence. To enable good ideas and realistic projects to be recognised, both risk management and value management techniques are used, among others. This paper examines current industrial practice in project appraisal and indicates why some practitioners expressed a preference for one of these techniques and some for the other... [Abstract excerpt supplied with permission from Thomas Telford: http://www.ice.org.uk/services/services_journals.asp]

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Afila**)

Writing tips to avoid career disaster. Miller, Julie. *Reliable Plant Magazine*; Issue 11, 2007.

This article is available [online](#)

New Energy and Environment Articles

Rising energy prices and New Zealand agriculture. *Future Times*; 2007, Vol. 4, p6-7.

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Future**)

Green heat. Whitley, Bill. *Consumer*; March 2007 Number 467 p.17-19

Discusses the pros and cons of wood pellets for heating.

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Bill**)

Power in waiting. Walding, Carl. *IET Power Engineer*; Oct/Nov 2006 Vol. 20 Iss. 5, p.38-41

Reducing the power that electronic products consume in standby mode is becoming ever more important in the face of new regulations.

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Walding**)

Reducing oil use through energy efficiency: Opportunities in the industrial sector. Elliott, R. Neal and others. *Environmental Quality Management*; Summer 2006 Vol 15(4), p.81-91

The authors outline opportunities for the reduction of industrial oil use in the U.S.
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Neal**)

Energy efficiency is a reliable investment. Latif, Dawood. *IRHACE Journal: Refrigeration, Heating and Air Conditioning*; Sep/Oct 2007 volume 19, number 5. p.8-10

Revisits a 1994 article by the same author and discusses how far we have come in HVAC energy efficiency in New Zealand since then.

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Latif**)

The CFL myth. Donald A. Peifer. *Lighting Design + Application*. Oct 2007. Vol. 37(10) p.87 (4p.)

Public education on the correct use of compact fluorescent lamps is imperative if they are to have any environmental impact.

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Donald**)

Sustainability and sustainable buildings. Burnett, John. *Hong Kong Institution of Engineers, Transactions*; Sep 2007 Volume 14 Number 3, p.1-9.

An in-depth article about the facets of design and construction that make a building more sustainable than the norm.

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Burnett**)

Ethical guidelines for compiling corporate social reports. Kaptein, Muel. *Journal of Corporate Citizenship*; Autumn 2007 Issue 27, p.71-90

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Muel**)

Profiting from socially beneficial green investment in an era of global warming. Peter Navarro and Tom Brunetto. *The Electricity Journal*; Vol. 20, Iss. 7, (Aug-Sept 2007) p.17-25

Monetizing the value of socially beneficial green investment is complex and will play an important role in the transformation currently sweeping through the industry. A common or agreed-to approach has yet to be developed, and options under consideration have numerous barriers, the most difficult being political ones.

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Tom**)

Banking on higher cost of carbon. Lewis, Mark. *Environmental Finance*; Nov 2007 Vol 9 (2) p.S16, S18, S20.

For all the concerns about what happens after Kyoto, the carbon market is beginning to take shape out to 2020. Mark Lewis explores how carbon prices might evolve.

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Lewis**)

Life cycle assessment of fuel selection for power generation in Taiwan. Ying-Hsien Yang and others. *Journal of the Air & Waste Management Association*; Nov 2007. Vol. 57 (11) p.1387 (9 p.)
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Yang**)

Tourists' perception of international air travel's impact on the global climate and potential climate change policies. Becken, Susanne. *Journal of Sustainable Tourism*; 2007, Vol. 15 Issue 4, p351-368
For this paper the author interviewed international tourists leaving New Zealand and used the knowledge gained to design the focus group section of the study. Results are discussed.
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Becken**)

International visits create climate conundrum – If you were interested in the article above you may also be interested in this [online](#) news from the University of Otago.

The impact of increased efficiency in the industrial use of energy: A computable general equilibrium analysis for the United Kingdom. Grant Allan and others. *Energy Economics*; Volume 29, Issue 4, (July 2007) Pages 779-798
The conventional wisdom is that improving energy efficiency will lower energy use. However, there is an extensive debate in the energy economics/policy literature concerning “rebound” effects. These occur because an improvement in energy efficiency produces a fall in the effective price of energy services. In this paper we measure the impact of a 5% across the board improvement in the efficiency of energy use in all production sectors.
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Grant**)

Ground source heat pumps in schools. Jim MacMillan. *ASHRAE Journal*; Sep 2007. Vol. 49, Iss. 9; p.34 (5 p.)
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Jim**)

Simulation and optimisation of renewable energy systems. K. Mitchell and others. *International Journal of Electrical Power & Energy Systems*; Vol. 27 (3), Mar 2005, p.177-188
This paper discusses the experience obtained through the use of a simulator of a renewable energy system, in both grid-connect and stand-alone modes. A system containing wind, solar, energy storage and stand-by plant is modelled. The simulator calculates energy flows on an hourly basis, using actual typical daily loading, wind and solar distributions.
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Mitchell**)

Storing energy from the wind in compressed-air reservoirs. Pendick, Daniel. *New Scientist*; 29/09/2007, Vol. 195 Issue 2623, 44-47. (Note: our version is text-only)
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Pendick**)

Photovoltaics research and development in Australia. Watt, Muriel and others. *International Journal of Environmental Studies*; Dec 2006, Vol. 63 Issue 6, p777-790
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Watt**)

Designing a program to reduce GHG emissions and generate renewable energy from landfill sites. Keith Quach; Gordon Robb. *Energy Engineering*; 2007. Vol.104 (6) p.39 (12p.)
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Keith**)

Thinking small. Mackenzie, Alistair. *E.NZ magazine*; Sep/Oct 2007 Volume 8/5, p.35-38
The rise of the fight against global warming coupled with fears about energy security and moves to put a price on carbon dioxide emissions means there are new opportunities, new markets and new money in clean energy. The author explains how Christchurch hydro engineer Rik Hothersall plans to capitalise on this hot engineering area.
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Alistair**)

New approach to evaluating dams for seismic safety: Application in New Zealand. Mejia, Lelio H.; Walker, James W.; Gillon, Murray D. *HRW: Hydro Review Worldwide*; Dec 2006 Volume 14, Number 6. p.32,34-38
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Mejia**)

Hydropower and environmental regulation – A Scottish perspective. Paul Copestake. *Ibis*; 148 (s1) 2006, p.169–179.
This paper, presented at the Wind, Fire and Water: Birds and Renewable Energy Conference was subsequently published in *Ibis*. It is available [online](#).

Energy system limits future ethanol growth. Kumins, Larry. *Oil & Gas Journal*; 26 Nov 2007 Volume 105.44. p.18-20, 22
Gasoline replacement by ethanol is constrained by two factors: The gasoline-ethanol distribution infrastructure does not deliver ethanol for gasoline blending everywhere in the US, and there are physical limitations on existing vehicles as to how much ethanol they can use in combination with gasoline.
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Kumins**)

Burn it? Gasify it? Ferment it? Doing the right thing with biomass. Simpson-Holley, Martha; Evans, Geraint. *Energy World*; Jun 2007 350, p16-19
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Evans**)

European key issues concerning natural gas: Dependence and vulnerability. Mathias Reymond. *Energy Policy*; Volume 35, Issue 8, (August 2007) Pages 4169-4176
The author examines the geopolitical key issues related to natural gas as well as the uneven distribution of natural gas resources on a worldwide scale. He proposes to define the significance of liquefied natural gas in gas exchanges and analyses the problem of European gas vulnerability using several indicators.
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Reymond**)

Role of coal in sustainable energy development. Balat, Havva. *Energy Exploration and Exploitation*; Volume 25 Number 3 2007 p.151-174
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Havva**)

Canada's oil sands - the world's next major petroleum reserve? Cope, Gordon
Energy World; Jul/Aug 2007 351. p.10-11
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Cope**)

Integrating interruptible IPP contracts in the probabilistic production simulation of power market systems. C.W. Yu and others. *International Journal of Electrical Power & Energy Systems*; Volume 29, Issue 7, (September 2007) p.557-564
Assuring appropriate levels of reliability at the minimum possible cost using market-based approaches is a contemporary issue that is attracting much attention in deregulated power market systems. Introducing interruptible electricity contracts could provide a possible solution to such a problem. However, theoretical frameworks for examining the impact of these contractual arrangements on system operations have not been maturely developed. This paper presents a framework for modeling and evaluating an interruptible power supply contract for flexible independent power producers based on probabilistic production simulation...
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Yu**)

Benchmarking of electricity networks: Practical problems with its use for regulation. Graham Shuttleworth. *Utilities Policy*; Vol. 13 (4), Dec. 2005 p.310-317
Benchmarking is a technique derived for management purposes, intended to identify outliers in any population as possible problems for resolution. Several regulatory agencies have tried to use benchmarking to define the degree of inefficiency of regulated companies, by reference to some target or frontier. This paper identifies the main problem inherent in trying to adapt a management technique to a regulatory purpose – namely that it requires the exercise of subjective judgements. The paper concludes with recommendations as to how benchmarking should support further and more objective investigations into the costs of regulated utilities.
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Graham**)

A quantitative analysis of the relationship between congestion and reliability in electric power networks. Blumsack, Seth and others. *Energy Journal*; Vol. 28, Iss. 4 (2007) p.73-100
Restructuring efforts in the U.S. electric power sector have tried to encourage transmission investment by independent (non-utility) transmission companies, and have promoted various levels of market-based transmission investment. Underlying this shift to "merchant" transmission investment is an assumption that new transmission infrastructure can be classified as providing a congestion-relief benefit or a reliability benefit. In this paper, we demonstrate that this assumption is largely incorrect for meshed interconnections such as electric power networks. The full version of this abstract is available at: <https://www.iaee.org/en/publications/ejsearch.aspx?user=guest>
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Seth**)

Norwegians push subsea XLPE cables to new voltage levels. Varley, James. *Modern Power Systems*; Vol. 27 Issue 9 Sep 2007 p.29-33, 3p
(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Varley**)

Optimal controllability of wind generators in a delegated dispatch. Edgardo D. Castronuovo and others. *Electric Power Systems Research*; Volume 77, Issue 10, (August 2007) p.1442-1448

A delegated dispatch is a control centre that transmits the requirements of the system operator in critical situations to distributed generation resources, by monitoring and controlling the wind generation producers in a region....In the present paper, some functions of a delegated dispatch are analysed, when applied to a real network. An optimization method is proposed, aiming to reach the regional constraints imposed by the system operator.

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Castro**)

Security-constrained resource planning in electricity markets. Roh, J. H. and others. *IEEE Transactions on Power Systems*; Vol. 22 Iss. 2 May 2007 p.812-820

We propose a security-based competitive generation resource planning model in electricity markets. The objective of the model is to introduce the impact of transmission security in a multi-GENCO generation resource planning. The proposed approach is based on effective decomposition and coordination strategies. ©2007 IEEE. Abstract excerpt reprinted with permission of the IEEE

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Roh**)

Variable compression ratio engine: a future power plant for automobiles - an overview. Amjad Shaik and others. *Proceedings of the Institution of Mechanical Engineers.: Part D Journal of automobile engineering*; Sep 2007. Vol. 221, Iss. D9, p.1159-1168

Increasingly stringent emissions and fuel economy standards have long remained a source of challenges for research in automobile engine technology development towards the more thermally efficient and less polluting engine. Spark ignition (SI) engines have lower part-load efficiency when compared with the diesel engines. The greatest opportunity for improving SI engine efficiency is by way of higher compression ratio, variable valve timing, low friction, reducing throttling losses, boosting, and down-sizing.....

(For a copy of this article email library@energylibrary.org.nz Ref: **0108-Shaik**)

Featured Topic

International Energy Agency publications available from our collection.

These are just some of the IEA publications that we hold - we will feature more in future updates. We would like to thank the Knowledge Management Unit at MED for their recent donations of IEA material, which have supplemented our existing collection.

Energy policies of IEA countries: The United Kingdom. 2006 review. (2007) Paris: IEA/OECD

The UK faces declining energy production from its main sources and increasing dependence on imported energy. Climate change and rising energy prices pose further challenges. Most coal-fired and nuclear power capacity in the UK will be shut down in the foreseeable future. Market forces will deliver the required investment and security of supply but government must play an active role in setting the framework.

(To borrow this book email library@energylibrary.org.nz Ref: **0108-UK**)

World energy outlook 2007: China and India insights. (2007) Paris: OECD/IEA
(To borrow this book email library@energylibrary.org.nz Ref: **0108-China**)

Energy technology perspectives 2006: Scenarios & strategies to 2050. (2006) Paris: IEA/OECD.

Provides a comprehensive and detailed analysis of emerging key energy technologies. It also looks at scenarios and strategies to 2050 and reviews the status and prospects of the key technologies in electricity generation, buildings, industry and transport.

(To borrow this book email library@energylibrary.org.nz Ref: **0108-2050**)

Light's labour's lost: Policies for energy-efficient lighting. (2006) Waide, Paul. Paris: OECD/IEA

Read the [press release](#) about this book.

(To borrow this book email library@energylibrary.org.nz Ref: **0108-Waide**)

World energy investment outlook: 2003 insights. (2003) Paris: IEA/OECD

This book aims to quantify global energy investment needs, fuel by fuel and region by region.

(To borrow this book email library@energylibrary.org.nz Ref: **0108-Investment**)

Reports

Economic overview. (2008) *New Zealand Country Review*; p.67, 25p.

This report is an overview of the recent economic conditions in New Zealand, including production and consumption of primary energy and electric power. The majority of the report is in graph or table format and the statistics range anywhere in date from 1997 to 2006.

(For a copy of this report email library@energylibrary.org.nz Ref: **0108-Economic**)

Environmental overview. *New Zealand Country Review*; 2008, p135, 39p.

This report starts with a brief overview of the environmental conditions in New Zealand. This is followed by a section which outlines the environmental challenges faced by different regions of the world. The history, science and policies relating to various global environmental concepts are examined and current topics such as climate change, deforestation and water scarcity are investigated. The report concludes with a list of information resources.

(For a copy of this report email library@energylibrary.org.nz Ref: **0108-Environmental**)

Seminars and Conferences

Renewable Electricity in New Zealand: A Victoria University Master Class. Sponsored by the National Energy Research Institute (NERI) and the Energy Federation of New Zealand 9am-5pm Fri 22 February 2008, Rutherford House Lecture Theatre 3, Pipitea Campus, Wellington. *Note: registration closes 8th Feb.* Read the [information flyer](#).

10th Annual National Power New Zealand 2008 Conference. 25-29 February 2008, SKYCITY Convention Centre, Auckland. For information visit the [conference website](#)

New Zealand Petroleum Conference 2008. 9-12 March 2008, SKYCITY Convention Centre, Auckland. For information visit the [conference website](#)

Emissions Trading & Policy Summit: 26 & 27 March 2008, Duxton, Wellington. For information visit the [Conferenz website](#)

Understanding electricity markets: Executive and management training course 3 & 4 March 2008, Wellington Convention Centre. For information visit the [M-Co website](#)

Energy on the Web

New Zealand

New solution seeker and caring consumer market research unveiled - Oct 2007 [news](#)

Methane-eating bug in geothermal areas - Nov 2007 [news](#)

New tool in energy efficiency toolkit now available – Dec 2007 EECA [media release](#)

MED to take over the dissemination of energy statistics – [media release](#)

ShapeNZ - New Zealanders' views on issues like climate change - [website](#)

Cityhop - Auckland car share company [website](#)

The Sustainability Trust – [website](#)

International

HBR Green: A discussion about leadership and the environment - [online discussion](#)

Pathfinder on power and energy – IEEE [online resource](#)

Smart meters may increase energy use - Oct 2007 [news](#)

Review of suppliers' voluntary initiatives to help vulnerable customers – Ofgem [report](#)

The future of geothermal energy – MIT [report](#)

Local energy: Turning consumers into producers – UK Parliament [report](#)

Global swarming – thought provoking [article](#) on population growth and climate change

Hot rocks, cool technology. May/Jun2007 - [article](#)

Reduce generating costs and eliminate brownouts - Jun 2007 [article](#)

Blowing in the wind: How a two-tiered national renewable portfolio standard, a system benefits fund, and other programs will reshape American energy investment and reduce fossil fuel externalities - 2007 [article](#)

Ethanol schmethanol – Sept 2007 Economist [article](#)

Resources: Not in our backyard - Oct 2007 [article](#) on transmission line opposition in Alberta.

Fuel for Thought (Energy chocolate competition)

Kicking Ash

Check out these [eco-friendlier bricks](#) made from fly-ash, which is a waste product from coal-fired power plants. Less energy is used to make them because they're produced at room temperature. A study has even shown that the bricks remove mercury from the air near them.

To be in to **win a king-size bar of energy chocolate** [email Kat McAra](#) the answer to the following question:

What is the name of the man who developed these bricks?

(Draw closes 4pm Friday 15th 2008).



Other Services

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