

Energy Library Update

Jan 2007

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International Trends in Small Scale Renewable Generation

Energy Library is very pleased to have been associated with this presentation which was held at MED, Wellington on 23rd January. The event attracted a great deal of interest and had to be moved from a smaller venue.

Tim Armstrong (East Harbour Management Services) spoke on his recent study trip to England, Scotland, Canada and USA where he investigated policy and incentives in place to assist the uptake of small scale renewable generation and the technology of small wind turbines. Tim travelled as a Churchill Fellow with support from EECA and other organisations. Read about Tim's written [report](#).

Joseph Mayhew (EECA) reported on his visit to California where he investigated recently announced policies and programmes to support the uptake of solar energy technologies in California. You can view Joseph's Power Point slides [here](#).

Featured Energy Library Journals

Insight: Non destructive testing and condition monitoring

Published monthly by the British Institute of Non-Destructive Testing, this journal contains technical and scientific reviews, research and development, case studies, surveys, news, personality and organisation profiles, an International Diary of conferences and more.

(To go on our circulation list or borrow a sample issue for evaluation please email kmcara@energylibrary.org.nz)

Environmental Finance

This monthly publication is concerned with the impact of environmental issues on the lending, insurance, investment and trading decisions affecting industry. It contains developments and analysis over a broad range of environmental issues including weather risk management, emissions markets and "green" investments.

Environmental Finance is available on circulation or via our table of contents service. (For more information or to request a sample copy for evaluation please email kmcara@energylibrary.org.nz).

New Books, Standards, CDs and DVDs

Sleeping Giants (DVD)

In March 2006, Victoria University of Wellington hosted 'Climate Change and Governance'. This DVD includes a series of interviews and records some of the key messages that were discussed at the conference.

(To borrow this DVD email library@energylibrary.org.nz **Ref: 01Giants**)

Maximizing Your Memory: techniques and exercises for remembering just about anything. (2003) Hancock, Jonathan. London: New Burlington Books

Teach yourself techniques for remembering anything, so that you never again need say "I can't rely on my memory." This book is well laid out, and very easy to read.

(To borrow this book email library@energylibrary.org.nz **Ref: 01Hancock**)

The analysis of the use of collaborative procurement systems in New Zealand construction. Partnering, alliancing, joint ventures. (2005) Yana Shestakova

Auckland: University of Auckland

This thesis discusses the principles of partnering, alliances and joint ventures. It also looks at the implementation of them in the New Zealand construction industry.

(To borrow this thesis email library@energylibrary.org.nz **Ref: 01Shestakova**)

AS/NZS 61000.6.1: 2006. Electromagnetic compatibility (EMC) Part 6.1: generic standards: immunity of residential, commercial and light industrial environments

Wellington: Standards New Zealand

Provides designers, manufacturers, and testers of equipment incorporating electrical or electronic operation with methods of test for ascertaining immunity to electromagnetic disturbances. Identical to and reproduced from IEC 61000-6-1:2005.

(To borrow this standard email library@energylibrary.org.nz **Ref: 11-61000**)

2006 World Atlas & Industry Guide (The International Journal on Hydropower & Dams)

This 334 page guide contains comprehensive data on developments in hydropower, dam engineering and water resources.

(To borrow this book email library@energylibrary.org.nz **Ref: 01Atlas**)

IRHACE Industry Directory & Yearbook 2007

(To borrow this book email library@energylibrary.org.nz Ref: **01IRHACE**)

Turning back time: Winning the fight against corrosion (CD-ROM)

c2005. Blackburn: Australasian Corrosion Association

(To borrow this CD email library@energylibrary.org.nz Ref: **01ACA**)

House building guide (2nd edition). (2004) Trevor Pringle. Wellington: Building Research Association of New Zealand (BRANZ).

This is a key book for builders involved in house construction. It follows the steps in house building to the lining out stage. Some, but not all, work by subcontractors is also included. Very clear diagrams are included.

(To borrow this book email library@energylibrary.org.nz Ref: **01Pringle**)

Special Journal Issues

Utilities Policy (June 2005) "Electricity Transmission"

(To borrow this whole special issue email library@energylibrary.org.nz Ref: **01Utilities**)

Power Engineering (July 2006) "Coal Gasification: Players, Projects, Prospects"

(To borrow this whole special issue email library@energylibrary.org.nz Ref: **01Power**)

Reports

The answer, my friend is blowin' in the wind: A report on small scale wind and other renewable energy. (2006) Tim Armstrong. Wellington

Reports on research study tour to England, Scotland and the USA by Tim Armstrong in September and October 2006. The report presents the author's findings on the development of small scale wind and other forms of renewable generation in these countries. The author reports on the policies and legislation applied to the development of renewable energy in these countries along with the financial incentives to drive them.

(This report is on our [website](#) or you can [borrow](#) our print copy Ref: **01Armstrong**)

Evaluation of the first-stage reservoir in the Australian Hot Dry Rock geothermal energy development beneath the Cooper Basin. CRIEPI Report No. N05022

(2006) Hideshi Kaieda and others. Tokyo: Central Research Institute of Electric Power Industry (CRIEPI)

A hot topic that is covered in depth (no puns intended).

(To borrow this report email library@energylibrary.org.nz Ref: **01CRIEPI**)

Energy use in New Zealand households: Report on the year 10 analysis for the household energy end-use project (HEEP) (2006)

Wellington: Building Research Association of New Zealand (BRANZ).

(This report is available [online](#) or you can [borrow](#) our print copy **Ref: 01HEEP**).

Trust Ownership and Vector: A public discussion document sponsored by the Auckland Energy Consumer Trust. September 2006. Wellington: NZIER working paper 2006/04.

The ownership of Vector has been in the limelight of recent times. The Auckland Energy Consumer Trust has sponsored the NZIER to prepare an independent assessment of the Trust's structure for Vector, and suggest possible alternatives.

(This report is available [online](#) or you can [borrow](#) our print copy **Ref: 01Vector**).

Revised New Zealand energy greenhouse gas emissions 1990 - 2005 (2006)

Wellington: Ministry of Economic Development

This revised edition amends the 2005 carbon dioxide (CO₂) emission figure for thermal electricity generation, which was incorrectly reported in the original report released in September 2006. The revised CO₂ emission figure for thermal electricity generation in 2005 is 8.2 million tonnes, which replaces the previously reported figure of 7.1 million tonnes. The amendment affects the 2005 calendar year figures only, was confined to this publication, and has no implications on the projections made of Net Position or on those reported in New Zealand Energy Outlook to 2030 or the New Zealand Energy Data File.

(This report is available [online](#) or you can [borrow](#) our print copy **Ref: 01Revised**).

Powering our future: Towards a sustainable low emissions energy system - Draft New Zealand Energy Strategy to 2050 (Draft) (2006) Wellington: Ministry of

Economic Development

Provides an outline of the government's proposed vision for New Zealand's energy future and the broad directions by which this could be achieved. Also provides details for further action on proposed plans in the areas of low carbon transport, security of supply, low emissions, energy efficiency, sustainable technologies and innovation and affordability and well being.

(This document is available [online](#) or you can [borrow](#) our print copy Ref: **01Draft**).

Journal Articles

Articles on the Stern Report: 3-for-1 article set (3 pages in total).

Stern warning. Bryan Gunderson. *NZ Management*; Dec 2006 p.17 (Opinion piece)

The economics of risk. Nicholas Stern. *Environmental Finance*; Dec 2006 p.20 (Nicholas Stern defends his findings).

The Stern Report. *Energy, Resource, Environmental and Sustainable Management*;

(Outlines some of the report's findings and covers some of the reactions to it).

(For a copy of this **article set** email library@energylibrary.org.nz Ref: **01Stern**)

Managing customer loyalty in liberalized residential energy markets: The impact of energy branding. Patrick Hartmann and Vanessa Apaolaza Ibanez. Energy Policy, Volume 35, Issue 4, April 2007, Pages 2661-2672

In numerous recently deregulated energy markets, utilities previously operating in monopolistic environments are now focusing on customer satisfaction and loyalty. In this study, a conceptual framework is proposed that analyses the effects of brand associations and perceived switching costs on customer satisfaction and loyalty in residential energy markets.

(For a copy of this article email library@energylibrary.org.nz Ref: **01Hartmann**)

Matching the project manager's leadership style to project type.

Pages 21-32. Ralf Müller and J. Rodney Turner. International Journal of Project Management. Volume 25, Issue 1, Pages 1-104 (January 2007)

We look into the interaction of the project manager's leadership style with project type, and their combined impact on project success. We aim to show that different leadership styles are more likely to lead to a successful outcome on different types of project.

(For a copy of this article email library@energylibrary.org.nz Ref: **01Muller**)

A Penny for Your Thoughts: Referral Reward Programs and Referral Likelihood.

Gangseog Ryu and Lawrence Feick. Journal of Marketing; Jan 2007, Vol. 71 (1), p84-94

(For a copy of this article email library@energylibrary.org.nz Ref: **01Ryu**)

Deregulation and industrial change: A comparative study of the electricity sectors of New Zealand and the Gambia. Thomas Hamilton Forster and others.

Journal of Change Management; Sep 2006, Vol. 6 Issue 3, p321-347.

(For a copy of this article email library@energylibrary.org.nz Ref: **01Forster**)

How Leaders Create and Use Networks. Herminia Ibarra and Mark Hunter

Harvard Business Review Vol. 85 Issue 1, Jan 2007. p40-47

Most people acknowledge that networking - creating a fabric of personal contacts to provide support, feedback, insight, and resources is an essential activity for an ambitious manager. But even people who understand that networking is a legitimate and necessary part of their jobs can be discouraged by the payoff because they are doing it in too limited a fashion....

(For a copy of this article email library@energylibrary.org.nz Ref: **01Ibarra**)

What to Ask the Person in the Mirror. Robert S. Kaplan. Harvard Business Review Vol. 85 Issue 1, Jan 2007 p86-95

As leaders rise through the ranks, they have fewer and fewer opportunities for honest and direct feedback. Their bosses are no longer monitoring their actions, and by the time management missteps have a negative impact on business results, it's usually too late to make course corrections that will set things right. Therefore, it is wise to go through a self-assessment, to periodically step back from the bustle of running a business and ask some key questions of yourself.

(For a copy of this article email library@energylibrary.org.nz Ref: **01Kaplan**)

How to Get & Keep the Best Employees. (cover story). HR Focus; Dec 2006, Vol. 83 Issue 12, p1-15, 5p
(For a copy of this article email library@energylibrary.org.nz Ref: **01HRFocus**)

Visual ergonomics: Improving eyecare and vision can enhance productivity. Jeffrey Anshel. Professional Safety; August 2006 p.20-25
(For a copy of this article email library@energylibrary.org.nz Ref: **01Anshel**)

Training future power engineers. Joos, G. IEEE Power and Energy Magazine; Jan-Feb 2005 Volume: 3, Issue:1 p.38- 47
(For a copy of this article email library@energylibrary.org.nz Ref: **01Joos**)

The Impact of California's Global Warming Legislation on the Electric Utility Industry. Seth Hilton. The Electricity Journal. Vol 19 (9) Nov 2006. p10-16
California's greenhouse gas legislation would appear at first glance to be a significant benefit to the development of renewable energy resources both in California and in neighboring states. However, the difficulties that California has experienced in implementing its renewable portfolio standard, as well as its urgent need for additional generation, may limit the state's ability to significantly increase its reliance on renewable generation.
(For a copy of this article email library@energylibrary.org.nz Ref: **01Hilton**)

Techno-economics of micro-hydro projects for decentralized power supply in India. M.R. Nouni and others. Energy Policy, Vol 34 (10), Jul 2006, p1161-1174
Results of a techno-economic feasibility evaluation of few micro-hydropower (MHP) projects being planned and implemented for decentralized power supply for remote locations in India are presented.
(For a copy of this article email library@energylibrary.org.nz Ref: **01Nouni**)

Cost-benefit analysis of remote hybrid wind-diesel power stations: Case study Aegean Sea islands. J.K. Kaldellis and K.A. Kavadias
Energy Policy, Volume 35, Issue 3, March 2007, Pages 1525-1538
Hybrid wind-diesel systems may be the most cost-effective electrification solution for numerous isolated consumers located in suitable (average wind speed higher than 6.0 m/s) wind potential regions.
(For a copy of this article email library@energylibrary.org.nz Ref: **01Kaldellis**)

Comparison of options for distributed generation in India. Rangan Banerjee
Energy Policy, Volume 34, Issue 1, January 2006, Pages 101-111
This paper reviews the different technological options available for DG, their current status and evaluates them based on the cost of generation and future potential in India. The non-renewable options considered are internal combustion engines fuelled by diesel, natural gas and microturbines and fuel cells fired by natural gas. The renewable

technologies considered are wind, solar photovoltaic, biomass gasification and bagasse cogeneration.

(For a copy of this article email library@energylibrary.org.nz Ref: **01Banerjee**)

Alternatives to grid extension for rural electrification: Decentralized renewable energy technologies in Vietnam. Khanh Q. Nguyen

Energy Policy, Volume 35, Issue 4, April 2007, Pages 2579-2589

This paper examines the economic viability of stand-alone, household-sized renewable energy technologies, namely wind generator and solar PV for application in remote and rural areas of Vietnam. Three reference technologies are chosen. These are two solar PV systems of 130 and 100 Wp for solar conditions in the North and the South, respectively, and one 150 W wind turbine.

(For a copy of this article email library@energylibrary.org.nz Ref: **01Nguyen**)

Wind energy planning in England, Wales and Denmark: Factors influencing project success. Joyce McLaren Loring. Energy Policy, Vol 35 (4) Apr 2007, p2648-2660

Land-use planning poses a significant barrier to the further development of on-shore wind energy in many countries. There has been increasing discussion regarding the use of public participation in the planning process in order to address concerns of local residents and ease conflicts. This research explores the dynamics of the planning process for wind energy in England, Wales and Denmark in order to better understand the factors influencing project success.

(For a copy of this article email library@energylibrary.org.nz Ref: **01Loring**)

Efficiency analysis of German electricity distribution utilities – non-parametric and parametric tests.

Christian von Hirschhausen and others. Applied Economics; 11/20/2006, Vol. 38 Issue 21, p2553-2566

(For a copy of this article email library@energylibrary.org.nz Ref: **01Hirschhausen**)

Time for a sea change (cover story). Alistair MacKenzie. E.NZ (Magazine of the Institution of Professional Engineers New Zealand) Nov/Dec 2006. p3-11

Discusses developments in marine power overseas and in New Zealand.

(For a copy of this article email library@energylibrary.org.nz Ref: **01MacKenzie**)

Road to rot [biomass industry]. C. Fry. IET Power Engineer, 20 (3) 2006 p20-23.

Discusses policy and potential in the UK biomass industry.

(For a copy of this article email library@energylibrary.org.nz Ref: **01Fry**)

Greenhouse Gas Emissions from Forestry Operations: A Life Cycle Assessment.

Edie Sonne. Journal of Environmental Quality. Jul/Aug 2006. Vol. 35 (4), p1439-1450

(For a copy of this article email library@energylibrary.org.nz Ref: **01Sonne**)

Portraits in Carbon Todd Neff. World Watch. Jan/Feb 2007. Vol. 20 (1), p 18-23
Discusses climate changes associated with our use of fossil fuels. Also raises concerns about the environmental effects of nanotechnology, which is increasing in popularity.
(For a copy of this article email library@energylibrary.org.nz Ref: **01Neff**)

Becoming ecosynchronous, part 1. The root causes of our unsustainable way of life. Robert Hay. Sustainable Development; Dec2005, Vol. 13 Issue 5, p311-325
(For a copy of this article email library@energylibrary.org.nz Ref: **01Hay**)

An Overall Index of Environmental Quality in Coal Mining Areas and Energy Facilities. Konstantinos I. Vatalis and Demetrios C. Kaliampakos.
Environmental Management; Dec 2006 Volume 38 Number 6 p1031-1045
(For a copy of this article email library@energylibrary.org.nz Ref: **01Vatalis**)

Compatibility of digestion and composting. (cover story). Brinton, William F.
Bio Cycle; Sep 2006, Vol. 47 Issue 9, p42-47
Describes how biogas capture and composting can be managed together.
(For a copy of this article email library@energylibrary.org.nz Ref: **01Brinton**)

Green giants. Claire Symes. International Construction; Sep 2006, Vol. 45 (7), p23-29
Grey water recycling, wind turbines and slag cement have been incorporated into the design of a number of "green" high-rise buildings in major cities worldwide.
(For a copy of this article email library@energylibrary.org.nz Ref: **01Symes**)

Turning promise into reality: ground-breaking needed soon. Christopher Higman.
Modern Power Systems; January 2007 Vol 27 (1) p.12-14
This article reports on the 25th annual US Gasification Technologies Conference.
(For a copy of this article email library@energylibrary.org.nz Ref: **01Higman**)

Egyptian gas plant employs absorbents for Hg removal. Mahmoud Abu El Ela and others. Oil & Gas Journal. Dec 11, 2006. Vol. 104, Iss. 46, p.52-58
(For a copy of this article email library@energylibrary.org.nz Ref: **01Ela**)

Weathering power's demand. Martin Fischer and Michael Grossman
Energy Risk August 2006 Vol 3 (10) p.42-45
While temperature forecasts can be used to predict power demand there are some inherent difficulties. The authors outline ways of overcoming these hurdles in order to get the most from temperature data.
(For a copy of this article email library@energylibrary.org.nz Ref: **01Fischer**)

Experience with a water-lubricated turbine guide bearing. A Canning.
International Journal on Hydropower & Dams; Vol 13 (4) 2006 p.87-90
(For a copy of this article email library@energylibrary.org.nz Ref: **01Canning**)

Identification of network parameter errors. Jun Zhu and Ali Abur.
IEEE Transactions on Power Systems; Vol 21 (2) May 2006 p586-592
(For a copy of this article email library@energylibrary.org.nz Ref: **01Zhu**)

Application of a novel eigenvalue trajectory tracing method to identify both oscillatory stability margin and damping margin. Xiaoyu Wen and , Venkataramana Ajarapu. IEEE Transactions on Power Systems; Vol 21 (2) May 2006 p817-824
(For a copy of this article email library@energylibrary.org.nz Ref: **01Wen**)

New discrete method for particle swarm optimization and its application in transmission network expansion planning. Yi-Xiong Jin and others. Electric Power Systems Research Volume 77 (3-4) Mar 2007. p227-233
A new discrete method for particle swarm optimization (PSO) which can be widely applied in transmission network expansion planning (TNEP) has been discussed in this paper. The author also analyses the parameter selection, convergence judgment, optimization fitness function construction, and their characters, respectively. This paper provides an academic and practical basis of PSO in TNEP for further research.
(For a copy of this article email library@energylibrary.org.nz Ref: **01Jin**)

A new look at component maintenance practices and their effect on customer, station and system reliability. B. Kalinowski and G. Anders.
International Journal of Electrical Power & Energy Systems Vol 28 (10) Dec 2006 p.679-695
This paper introduces a new concept in the analysis of the effect of changes in maintenance policies on component, delivery point and bulk electric system reliability and associated costs.
(For a copy of this article email library@energylibrary.org.nz Ref: **01Kalinowski**)

Optimal Control of Energy Consumption for Heating. Yuri A Tabunschikov, Marianna M Brodatch. ASHRAE Journal. Nov 2006. Vol 48 (11) p.26-28,30-31 (5p)
(For a copy of this article email library@energylibrary.org.nz Ref: **01Brodatch**)

Some guidelines for developing a framework for managing cyber security for an electric power utility. Age Torkilseng and Goran Ericsson. Electra; Oct 2006 No 228 p39-45
This fourth paper on "Security for Information Systems and Intranets in Electric Power Systems" provides guidance when a framework for managing cyber security for a utility is to be developed, regarding: existing standards, "best practices", and guidelines from other areas, and relying on the domain modeling concept. It is stressed that information security must be a natural part of daily operation.
(For a copy of this article email library@energylibrary.org.nz Ref: **01Torkilseng**)

Featured Topic

Transport Emissions: samplings from our collection.

Improving behavioral realism in hybrid energy-economy models using discrete choice studies of personal transportation decisions. Matt Horne and others. Energy Economics, Volume 27, Issue 1, January 2005, Pages 59-77

Hybrid energy-economy models combine top-down and bottom-up approaches to explore behaviorally realistic responses to technology-focused policies. This research uses empirically derived discrete choice models to inform key behavioral parameters in CIMS, a hybrid model.

(For a copy of this article email library@energylibrary.org.nz Ref: **01Horne**)

Comparing energy use and environmental performance of land transport modes.

Bert van Wee and others. Transport Reviews; Jan 2005, Vol. 25 (1), p3-24

(For a copy of this article email library@energylibrary.org.nz Ref: **01vanWee**)

A new method for collecting vehicle behaviour in daily use for energy and environmental analysis. A Alessandrini and others. Proceedings of the Institution of Mechanical Engineers.: Part D Journal of automobile engineering Nov 2006. Vol. 220, Iss. D11, p.1527-1537

(For a copy of this article email library@energylibrary.org.nz Ref: **01Alessandrini**)

Energy conservation from systematic tire pressure regulation

Energy Policy, Vol 35 (4) Apr 2007, p2673-2677 Joshua Pearce and Jason Hanlon

The majority of US drivers do not consistently monitor the tire pressures in their vehicles. A solution is provided here to address under-inflated tires on the current 220 million vehicles and the concomitant wasted energy due to increased rolling resistance in the US automobile fleet.

(For a copy of this article email library@energylibrary.org.nz Ref: **01Pearce**)

Determining Gaseous Emission Factors and Driver's Particle Exposures during Traffic Congestion by Vehicle-Following Measurement Techniques

U Wa Tang and Zhishi Wang. Journal of the Air & Waste Management Association. Nov 2006. Vol. 56, Iss. 11, p.1532-1539

(For a copy of this article email library@energylibrary.org.nz Ref: **01Tang**)

The economic impact of strengthening fuel quality regulation—reducing sulfur content in diesel fuel. H.J. Chang and others. Energy Policy, Volume 34, Issue 16, November 2006, Pages 2572-2585

This paper investigates the impact of strengthening vehicle emission regulation on economic activities. The government attempts to use three regulation measures to protect air quality from transportation emission. The measures include the aggregate limit (bubbles), the vehicle emission standard, and the fuel quality standard.

(For a copy of this article email library@energylibrary.org.nz Ref: **01Chang**)

Development of a vehicle emissions monitoring system. R.J. North and others. Proceedings of the Institution of Civil Engineers: Transport, 158 (3) 2005, p167-177. (For a copy of this article email library@energylibrary.org.nz Ref: **01North**)

Development of an Empirical Model to Estimate Real-World Fine Particulate Matter Emission Factors: The Traffic Air Quality Model. Ahmed Soliman and others. Journal of the Air & Waste Management Association. Nov 2006. Vol 56 (11) p.1540-1549 (For a copy of this article email library@energylibrary.org.nz Ref: **01Soliman**)

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Ask about subscribing to our **Customized Topic Updates** which give regular samplings from the web, our collection and other sources on topics of your choice. (To request details about subscribing to our Customized Topic Updates email library@energylibrary.org.nz and quote **Ref: Topic**)

Oldies and Goodies from the Energy Library Collection

The energy book: A resume of present knowledge and research. (1996)
Hans E.B. Andersson; Asa Kleveland Setterwall (eds). Stockholm: Swedish Council for Building Research
This book aims to summarise all aspects of energy use in Sweden; it is particularly interesting because of features which are not often discussed eg borehole heat stores. The built environment is discussed in detail. It is from the Energy Library EECA collection. (To borrow this book email library@energylibrary.org.nz Ref: **01Andersson**)

Environmentally educated engineer: Focus on fundamentals (1995)
(Proceedings of a Workshop on the Fundamentals of Environmental Engineering Education, Christchurch, 1994). Elms, David; Wilkinson, David. Canterbury: Centre for Advanced Engineering (CAE)
Papers from this workshop are divided into three areas; the first is Keynote addresses, which covers such topics as the Need for environmental engineering education, and Sustainable development and technology. The second area is General papers, which discusses such aspect as course design and the fundamentals, and the third area covers Regional papers, where speakers from China, Japan, and parts of Asia outline their experiences. (To borrow this book email library@energylibrary.org.nz Ref: **01CAE**)

Games trainers play: Experimental learning exercises. 1980. Newstrom, John W; Scannell, Edward E. New York: McGraw Hill
If you have ever faced a room full of people expecting to be trained, many of whom make it clear they'd rather be somewhere else, then you'll know the importance of trying different approaches to engage trainees' attention. These short exercises can be used as icebreakers at the start of the session, or useful activities to make a point clearer. (To borrow this book email library@energylibrary.org.nz Ref: **01Newstrom**)

Coping with numbers: A management guide. (1983) David Targett. Oxford: Blackwell.

A useful summary of statistical methods as used in daily life, particularly in business. (To borrow this book email library@energylibrary.org.nz Ref: **01Targett**)

Conferences

NZ Wind Energy Conference

Carl Weinberg, a wind industry pioneer from California will be the keynote speaker at the 2007 NZ Wind Energy Conference at Te Papa in Wellington on 13th – 14th March.

For more information and the preliminary conference programme visit the [NZWEA website](#). Registration information is available [here](#).

Blue Energy – Taking the Plunge: Aotearoa Wave and Tidal Energy Association Conference. Thursday 15th March, 8:30am – 6:00pm at Te Papa, Wellington.

This conference will present aspects of marine energy technology and issues facing its uptake. It will provide a forum discussing the path to a blue energy future. Featured will be:

- Addresses from Hon David Parker and Jeanette Fitzsimons are planned
- Keynote speakers from Canada and the United Kingdom
- Themes: Marine Energy Resources and Projects
- Marine Energy Policies and Regulations
- Panel Discussion on Marine Energy Strategy

9th Annual National Power New Zealand 2007 Conference

26 - 28 February 2007, SKYCITY Convention Centre, Auckland
Details are on the conference [website](#). You can register [here](#).

Energy on the Web

Get smart, think small: Local energy systems for New Zealand (December 2006)
Wellington: Parliamentary Commissioner for the Environment. This report is available [online](#).

Clean Development through Cogeneration. October 2006: World Alliance for Decentralized Energy (WADE). You can access the PDF [here](#).

The road to a new energy future: energy efficiency and renewable energy technologies for a cleaner more secure energy future ([report](#)).

Biomass to cogeneration for New Zealand dairy farms ([article](#)).

Smart meters and power planning ([article](#)).

From creamery to brewery with geothermal energy: Klamath Basin Brewing Company ([article](#)).

Harvesting the waves ([article](#)).

Platinum may help fuel electric cars ([news](#)).

Economics and impacts of ethanol manufacture ([article](#)).

Effect of glass frit chemistry on the physical and electrical properties of thick-film Ag contacts for silicon solar cells ([article](#)).

Solar integration: Five easy ways to incorporate solar thermal into conventional heating systems ([article](#)).

An even smarter lighting system ([article](#) on hybrid solar lighting).

EWEA aims for 22% of Europe's electricity by 2030 ([article](#) on wind energy).

Chief Executive of EWEA comment on STERN report ([article](#)).

Food for Thought

The Guardian reported last week on the US answer to global warming: [dust and giant mirrors](#).

And finally: To be in to win a **king-size bar of energy chocolate** [email Kat McAra](#) the answer to the following question: Which computerised, self-balancing transport device is used by increasing numbers of electricity meter-readers? (Clue: S _ _ _ _ _).

Draw closes 4pm on Friday 9th February.

If you're not currently receiving the monthly Energy Library Update email and would like to, let us know. If you don't wish to receive future updates just let us know by email or phone.