

Energy Library Update

September 2008

Welcome to the September issue of the Energy Library Update. 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 an item just email us the title or its reference code. Loan items listed in the Update may be issued for a shorter period of 2 weeks due to high demand.

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

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New Items for Loan

Rising powers, shrinking planet: The new geopolitics of energy. Klare, Michael T. (2008). New York: Metropolitan Books

If you read the article "A world order according to who has energy" in the 5th Sept *National Business Review* you will already have been introduced to this book. Klare spells out the importance of cooperation over competition. The last chapter "Averting catastrophe" offers possible solutions for the increasingly volatile situation. See also this [article](#) by the same author in the 19th May issue of *Nation*.

(To borrow this book email library@energylibrary.org.nz Ref: **0908-Loan1**)

New Zealand energy information handbook. 3rd edition (2008). Gary Eng, Ian Bywater and Charles Hendtlass. Christchurch: New Zealand Centre for Advanced Engineering (CAENZ)

The authors of this book aim "to encourage the widespread and consistent use of a data set, relevant to NZ, and to familiarise users who do not have a technical background with the important factors that affect the appropriateness and accuracy of energy data" (from preface).

(To borrow this book email library@energylibrary.org.nz Ref: **0908-Loan2**)

A brief introduction to climate change and peak oil for New Zealanders (2008)

This 32 page booklet is available [online](#) or you can borrow our copy.

(To borrow this book email library@energylibrary.org.nz Ref: **0908-Loan3**)

William H. Pickering: America's deep space pioneer. (2007). Mudgway, Douglas J. Washington, DC: National Aeronautics and Space Administration.

Sir William Pickering, rocket scientist, team leader and motivator and New Zealander was also Director of the company responsible for sending the first US satellites into space. He was a major contributor to space exploration during the early years of the Space Age.
(To borrow this book email library@energylibrary.org.nz Ref: **0908-Loan4**)

Successful business planning: energizing your company's potential. (2004) Paley, Norton. London: Thorogood, 2004

Paley is a well known author and lecturer in marketing and management. He says that although we know the value of planning in theory we still fail to spend the time required to go through the thinking and planning process properly or we fail to use the business plan effectively. Case studies are used to illustrate the use of successful business strategies.
(To borrow this book email library@energylibrary.org.nz Ref: **0908-Loan5**)

Leading with kindness: How good people consistently get superior results. (2008). Baker, William F.; O'Malley, Michael O. New York: AMACOM

(To borrow this book email library@energylibrary.org.nz Ref: **0908-Loan6**)

Safety, culture and risk: the organisational causes of disasters. (2005) Hopkins, Andrew. Sydney: CCH Australia

This book has been written by one of Australia's foremost thinkers on workplace safety and draws attention to failures by organisations, as distinct from failures by individuals as major causes of accidents. It will be of interest to readers who want to learn from investigations of major accidents as well as learning about the concepts of managing safety risk.
(To borrow this book email library@energylibrary.org.nz Ref: **0908-Loan7**)

Alignment: Using the balanced scorecard to create corporate synergies. (2006). Kaplan, Robert S.; Norton, David P. Boston: Harvard Business School

(To borrow this book email library@energylibrary.org.nz Ref: **0908-Loan8**)

AS/NZS 3016: 2002 Electrical installations - electric security fences

Reissued incorporating Amdt no.1 (March 2006)

(To borrow this standard email library@energylibrary.org.nz Ref: **0908-Loan9**)

Special Journal Issue

Transmission planning (*IEEE Power & Energy magazine*; Vol 5 No. 5, Sept/Oct 2007). This issue contains 6 articles on transmission planning, including:

- Probabilistic transmission planning
- Planning to expand?
- Planning big things for Brazil: Planning and building large-scale transmission networks in competitive hydrothermal systems.

(To borrow this whole issue email library@energylibrary.org.nz Ref: **0908-IEEE**)

New Management, Marketing and HR Articles

Getting smart on sponsorship. *NZ Business*; Jul 2008, Vol. 22 (6), p.54-55
This article discusses the use of sponsorship as a marketing tool in New Zealand.
(To request: email library@energylibrary.org.nz Ref **0908-Sponsorship**)

Human resources & the black dog. Harvey, Warwick. *Human Resources Magazine*; Jun/Jul 2008, Vol 13 (2), p.8-10
According to the New Zealand Mental Health Survey published in 2006, 16 percent of New Zealanders will experience depression in their lifetime. How can you tell if an employee is depressed and what can you do to help?
(To request: email library@energylibrary.org.nz Ref **0908-Harvey**)

As safe as necessary? Bibbings, Roger. *Occupational Safety and Health (RoSPA)*; May 2008 Vol 38 (5), p.62-63
An article about finding the balance between being obstructive and being too lax when it comes to health and safety.
(To request: email library@energylibrary.org.nz Ref **0908-Bibbings**)



The competitive imperative of learning. Edmondson, Amy C. *Harvard Business Review*; Jul-Aug 2008, Vol. 86 Issue 7/8, p.60-67
Most executives believe that relentless execution -- efficient, timely, consistent production and delivery of goods or services -- is the surefire path to customer satisfaction and positive financial results. But this is a myth in the knowledge economy, argues the author. She points to General Motors, which for years has remained wedded to a well-developed competency in centralized controls and efficient execution but has steadily lost ground, posting a record \$38.7 billion loss in 2007. Such an execution-as-efficiency model results in employees who are exceedingly reluctant to offer ideas or voice questions and concerns. Placing value only on getting things right the first time, organizations are unable to take the risks necessary to improve and evolve. By contrast, firms that put a premium on what Edmondson calls execution-as-learning focus not so much on how a process should be carried out as on how it should evolve. Since 1980 General Electric, for instance, has continued to reinvent itself in every field from wind energy to medical diagnostics; and it enjoyed a \$22.5 billion profit in 2007. Organizations that foster execution-as-learning provide employees with psychological safety. No one is penalized for asking for help or making a mistake.
(To request: email library@energylibrary.org.nz Ref **0908-Amy**)

Toward an interactive virtual classroom for power system distance education. J Hou. *International Journal of Power & Energy Systems*; Vol 27 (2) 2007, p.180-185
(To request: email library@energylibrary.org.nz Ref **0908-Hou**)

Magic words utility customer service representatives should use with customers. This June 2008 *Utility Automation & Engineering T&D* article is [online](#).

New Energy and Environment Articles

Performance of commercially available solar and heat pump water heaters. C.R. Lloyd and A.S.D. Kerr. *Energy Policy*; Vol 36 (10), Oct 2008, p.3807-3813

Many countries are using policy incentives to encourage the adoption of energy-efficient hot water heating as a means of reducing greenhouse gas emissions. Such policies rely heavily on assumed performance factors for such systems. In-situ performance data for solar and heat pump hot water systems, however, are not copious in the literature. Otago University has been testing some systems available in New Zealand for a number of years. The results obtained are compared to international studies of in-situ performance of solar hot water systems and heat pump hot water systems, by converting the results from the international studies into a single index suitable for both solar and heat pump systems (COP). Variability in the international data is investigated as well as comparisons to model results. The conclusions suggest that there is not too much difference in performance between solar systems that have a permanently connected electric boost backup and heat pump systems over a wide range of environmental temperatures. The energy payback time was also calculated for electric boost solar flat plate systems as a function of both COP and hot water usage for a given value of embodied energy. The calculations generally bode well for solar systems but ensuring adequate system performance is paramount. In addition, such systems generally favour high usage rates to obtain good energy payback times.

(To request: email library@energylibrary.org.nz Ref **0908-Lloyd**)

The power of one. White, Mike. *North & South*; 01/09/2008 Issue 270, p.50-59

There are bound to be tensions between industry and the government when there are electricity shortages. Here, the author discusses the case of Rio Tinto's Tiwai Pt aluminium smelter, which requires huge amounts of energy for its operation.

(To request: email library@energylibrary.org.nz Ref **0908-White**)

International perspective on electricity's future. Kaspura, Andre. *Engineers Australia*; Vol 80 (8) Aug 2008, p.38-39

An article about energy output from various sources of energy, comparing the year 2005 with the year 2050 under three different scenarios for GHG emissions reduction.

(To request: email library@energylibrary.org.nz Ref **0908-Kaspura**)

Climate change: The next ten years. Pearce, Fred; Le Page, Michael. *New Scientist*; 8/16/2008, Vol 199 Issue 2669, p.26-30

Many people have a vested interest in how climate change will affect the weather in their region. This article describes the challenges faced by climate scientists and meteorologists trying to provide forecasts to tourism industry operators, farmers etc.

(To request: email library@energylibrary.org.nz Ref **0908-Pearce**)

Grid connection issues for small renewable projects. Hodges, Rachel. *Energy World*; Jul/Aug 2008 362, p.18-19

One of the main obstacles to the success of small renewable projects can be expensive grid connection costs faced by the developer. These costs are not always understood or quantified at an early enough stage. The author explains how a suitable grid connection can be obtained.

(To request: email library@energylibrary.org.nz Ref **0908-Hodges**)

Hot rocks tapped to produce green power. Nowak, Rachel. *New Scientist*; 7/19/2008, Vol 199 (2665), p.24-25
(To request: email library@energylibrary.org.nz Ref **0908-Nowak**)

Geothermal energy facts and expectations. Sigfusson, Thorsteinn. In *Renewable energy 2007 / 2008* (p.79-80), London: Sovereign
The author is Professor of Physics at the University of Iceland. This article is divided into the following sections: Exergy determines the quality; A world resource; The division of sources by enthalpy; Three major types of plants; How about aiming deeper into the earth's crust?; Environmental impacts; Hot dry rock; Future challenges; The growth of geothermal worldwide; Future of Geothermal
(To request: email library@energylibrary.org.nz Ref **0908-Thor**)

A wind-powered house aims for net-zero. *Energy Design Update*; Jul 2008, p.1-5
Offers information on the effectiveness and efficiency of wind power in several U.S. houses.
(To request: email library@energylibrary.org.nz Ref **0908-EDU**)

Opportunities for tidal current and in-stream energy conversion technologies. Nielsen, N.M. *International Journal on Hydropower & Dams*; Vol 15 (1) 2008, p.91-96
(To request: email library@energylibrary.org.nz Ref **0908-Nielsen**)

Upgrading turbines at Manapouri. Pott, Joachim H. *HRW: Hydro Review Worldwide*; Vol 16 (3) Jul 2008, p.18,20-22,24-25
(To request: email library@energylibrary.org.nz Ref **0908-Pott**)

Bioenergy potentials from forestry in 2050: An assessment of the drivers that determine the potentials. Smeets, Edward M.W.; Faaij, André P.C. *Climatic Change*; Vol 81 (3-4) Apr 2007, p.353-390
(To request: email library@energylibrary.org.nz Ref **0908-Smeets**)



The US ethanol and biofuels boom: Its origins, current status, and future prospects. Tyner, Wallace E. *Bioscience*; 01/07/2008, Vol 58 (7), p.646-653
(To request: email library@energylibrary.org.nz Ref **0908-Tyner**)

Are national greenhouse gas emissions reports scientifically valid? Swart, R. and others. *Climate Policy*; Vol 7 (6) 2007, p.535-538
(To request: email library@energylibrary.org.nz Ref **0908-Swart**)

The short list: The most effective actions U.S. households can take to curb climate change. This Sept 2008 *Environment* [online](#) article lists actions that should have the biggest impact on energy use.

Taking the pulse of the carbon market. *Environmental Finance*; Jun 2008 Vol 9 (8), p.33-34

Five leading participants give their views on prospects for EU and US carbon markets and what the successor to the Kyoto Protocol will look like.

(To request: email library@energylibrary.org.nz Ref **0908-Finance**)

Will energy efficiency slow the growth in power demand? Wynne, Hugh and others. *Black Book - US Utilities: Diverging Returns on Regulated & Unregulated Stocks*; May 2008, p.109-116

(To request: email library@energylibrary.org.nz Ref **0908-Wynne**)

Energy conservation, expectations and uncertainty. Franz Wirl. *Energy Economics*; Jul 2008 Vol 30 (4), p.1957-1972

This paper investigates consumers' decisions about a (single and lumpy) conservation project accounting for uncertainty and expectations (rational versus myopic). Rational expectations take into account that the profitability of individual conservation measures will affect fuel prices (here set by cartelized supply). Ignorance of this interdependence between conservation and price leads to premature investments. The interplay between demand and supply creates an incentive for a consumer cartel to initiate conservation strategically, which advances conservation compared with rational consumers but not always ahead of individually myopic decisions.

(To request: email library@energylibrary.org.nz Ref **0908-Wirl**)

Degree days for building energy management - presentation of a new data set. Layberry, R. L. *Building Services Engineering Research & Technology*; Aug 2008, Vol 29 (3), p.273-282

(To request: email library@energylibrary.org.nz Ref **0908-Layberry**)

Innovate Green Office: a new standard for sustainable buildings. King, D. *Institution of Civil Engineers. Proceedings - Energy*; Aug 2007 Vol 160 (3), p.105-111

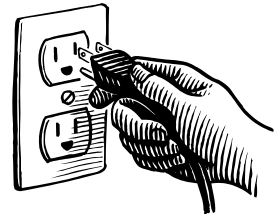
The Innovate Green Office in Leeds, UK was awarded the highest ever Building Research Establishment environmental assessment method (Breeam) score of 87.55%. While previous exemplar sustainable buildings have been constructed for owner occupiers, this project is a demonstration of a sustainable commercial office built speculatively by a developer. The £5.5 million, 4350 m² building demonstrates a wide range of novel techniques for reducing resource consumption and carbon dioxide (CO₂) emissions both in construction and use. Featuring passive environmental design, the building eschews bolt-on sustainable technologies in favour of good insulation, thermal mass and daylight to reduce emissions of CO₂ to 20% of a conventional office building. Importantly, savings in energy and water consumption at a time of increasing volatility in energy costs also provide savings in operating cost, making the building commercially attractive. Abstract reprinted with the permission of Thomas Telford Limited: http://www.ice.org.uk/services/services_journals.asp

(To request: email library@energylibrary.org.nz Ref **0908-King**)

The impacts of different bidding segment numbers on bidding strategies of generation companies. L. Wang and others. *Electric Power Systems Research*; Vol 78 (3) Mar 2008, p.458-463
(To request: email library@energylibrary.org.nz Ref **0908-Wang**)

Deployment of demand response as a real-time resource in organized markets. Audrey Zibelman, Edward N. Krapels. *The Electricity Journal*; Vol 21 (5) Jun 2008, p.51-56
The use of DR as a dispatchable resource in the real-time energy markets should be encouraged, not discouraged. We are fortunate that the smart-grid technology now exists to fully exploit this valuable resource.
(To request: email library@energylibrary.org.nz Ref **0908-Audrey**)

Market design for generation adequacy: Healing causes rather than symptoms. Fabien A. Roques. *Utilities Policy*; Vol 16 (3), Sept 2008 p.171-183
This paper argues that electricity market reform – particularly the need for complementary mechanisms to remunerate capacity – need to be analysed in the light of the local regulatory and institutional environment. If there is a lack of investment, the priority should be to identify the roots of the problem. The lack of demand-side response, short-term reliability management procedures and non-market ancillary services provision often undermine market reflective scarcity pricing and distort long-term investment incentives. The introduction of a capacity mechanism should come as an optional supplement to wholesale and ancillary markets improvements. Priority reforms should focus on encouraging demand-side responsiveness and reducing scarcity price distortions introduced by balancing and congestion management through better dialog between network engineers and market operators.
(To request: email library@energylibrary.org.nz Ref **0908-Fabien**)



Lignite industry in Greece within a world context: Mining, energy supply and environment. Konstantinos Kavouridis. *Energy Policy*; Vol 36 (4), Apr 2008, p.1257-1272
(To request: email library@energylibrary.org.nz Ref **0908-Lignite**)

Building for the future. McMahon, R. *Energy Risk*; May 2008 Vol 5 (7), p.35-37
Examines the situation for utilities in the United States, who face the challenge of meeting conflicting goals: keeping up with rising demand and reducing greenhouse gas emissions.
(To request: email library@energylibrary.org.nz Ref **0908-McMahon**)

Fossil fuel development requires long-term sulfur strategies. Paul Davis and others. *Oil & Gas Journal*; Vol 106 (29) Aug 4 2008, p.45 (7p.)
(To request: email library@energylibrary.org.nz Ref **0908-Davis**)

Split-estate negotiations: The case of coal-bed methane. Chouinard, Hayley H. and Steinhoff, Christina. *Review of Law & Economics*; 2008, Vol 4 (1), p.1-26
(To request: email library@energylibrary.org.nz Ref **0908-Hayley**)

A comparison between conventional recuperative gas turbine and hybrid solid oxide fuel cell-gas turbine systems with direct/indirect integration. D. Sánchez. *Institution of Mechanical Engineers Proceedings Part A: Journal of Power and Energy*; Vol 222 (A2) Mar 2008, p.149-159

(To request: email library@energylibrary.org.nz Ref **0908-Sanchez**)

Boosting boilers. Holdship, P. *IET Power Engineer*; Aug/Sep 2007 Vol 21 (4), p.38-41

In today's competitive and ever-growing world, power companies have four major goals for their facilities: improved availability, increased efficiency, maximised output and reduced emission.

(To request: email library@energylibrary.org.nz Ref **0908-Holdship**)

Development of a fibre optic impulse current sensor for high voltage equipment tests. Slobodan Petricevic and others. *International Journal of Electrical Engineering Education*; Vol 45 (1) Jan 2008, p.1-6,8,10-11,13-16

(To request: email library@energylibrary.org.nz Ref **0908-Slobodan**)

Impacts of repair state residence time distributions in an electric power generating capacity adequacy assessment. Huang, D.; Billinton, R. *Institution of Mechanical Engineers Proceedings Part O: Journal of Risk and Reliability*; Dec 2007 Vol 221 (O4), p.297-305

The primary function of an electric power system is to satisfy the load requirement as economically as possible with an acceptable assurance of continuity and quality. A generating capacity adequacy evaluation involves the determination of the total system generation required to satisfy the load requirement. In these studies, a generating unit is usually represented by a two-state model in which the unit is either available or unavailable for service. These models are valid representations for base load units but do not adequately represent intermittent operating units used to meet peak load conditions. The two-state model for a base load unit has been extended to a four-state peaking unit model that is widely used in practice. The generating unit state residence time distributions in these models are assumed to be exponential in form in virtually all practical system studies. This may not be a valid assumption for the repair state in some situations. A sequential Monte Carlo simulation technique is utilized to incorporate Weibull distributed generating unit state residence times in the two-state and four-state models. The effects on the adequacy indices and the adequacy index distributions are illustrated by application to two practical test systems.

(To request: email library@energylibrary.org.nz Ref **0908-Huang**)

Dynamic adaptation policies to improve quality of service of real-time multimedia applications in IEEE 802.11e WLAN Networks. Naomi Ramos and others. *Wireless Networks*; Aug 2007 Vol 13 (4), p.511-535

(To request: email library@energylibrary.org.nz Ref **0908-Ramos**)

The competitive effects of ownership of financial transmission rights in a deregulated electricity industry. Manho Joung et al. *The Energy Journal*; Vol 29 (2) 2008, p.165-184

(To request: email library@energylibrary.org.nz Ref **0908-Manho**)

A sensitivity-based approach for studying stability impact of distributed generation.

T.B. Nguyen, M.A. Pai. *International Journal of Electrical Power & Energy Systems*; Vol 30 (8) Oct 2008, p.442-446

In this paper we investigate the impact of distributed generation (DG) on system stability using the trajectory sensitivity approach and identify the machines that are vulnerable to the addition of DG. We also vary the penetration level of DG and evaluate the influence of the DG modeling. Sensitivity formulation for the differential-algebraic equation model is presented through a single-machine infinite-bus (SMIB) example. The methodology can be extended to study the influence of parameters other than the clearing time, such as series line reactance. (To request: email library@energylibrary.org.nz Ref **0908-Pai**)

The island in the wind - July 2008 *New Yorker* [article](#) about the Danish island of Samsø.

The impact of DG on European electricity grids - May 2008 *Cogeneration & On-Site Power Production* [article](#).

Green strategies for aging coal plants: alternatives, risks & benefits - July 2008 *Power Engineering* [article](#).

Coal gasification, a promising technology - Jul/Aug 2008 *Electric Light and Power* [article](#).

Exploring greener frontiers – June 2008 *NZ Business* [article](#) on Seeby Woodhouse.

The living culture whose time has come – ECOS (CSIRO) [article](#) on permaculture.

Environmental Risk – The publisher of *Energy Risk* magazine is currently allowing free online access to *Environmental Risk*. Take a look at the first two issues [here](#).

Special Topic 1: Electric Vehicles

The 2008 Pickering Lecture organised by IPENZ and held various New Zealand centres was "Plug in New Zealand Switch to Electric Cars". Below are a few items you may be interested in on electric vehicles. For a longer list of articles from our collection see the Special Focus on Electric Vehicles in our [Aug 2008 IPENZ Engineering Update](#).

Lithium batteries take to the road. Voelcker, John. *IEEE Spectrum*; Sep 2007 Vol 44 (9). p.18-23.

Lithium-ion cells are poised to take an increasing share of the auto battery market, just as electric drive seems set to begin a long, slow climb to become, at last, a serious power-train option. But what's rarely understood is how much that second revolution depends on the first. (To request: email library@energylibrary.org.nz Ref **0908-EV1**)

Steady-state and idle optimization of internal combustion engine control strategies for hybrid electric vehicles. Wang, F. and others. *Chinese Journal of Mechanical Engineering (English edition)*; Apr 2008 Vol 21 (2), p.58-64

(To request: email library@energylibrary.org.nz Ref **0908-EV2**)

DOE announces funding for plug in hybrid electric vehicles – 17th Jun DOE [news](#).

Electric cars' 'time has come' – 13th Sept *Dominion Post* online [article](#).

Electric ute a real beaut for commute – [news](#) 29th Sept

GEM introduces Peapod neighborhood electric vehicle - Sept 23rd [media release](#).

The coming energy shift (update) – Aug 21st [article](#) posted 21st Aug on the Celsias website.

Special Topic 2: Advanced Metering

Smart metering: two cautionary tales. G. Hughes. *Energy NZ*; Winter 2008 (5), p.36-37

Meter markets now include smart technology, opening up a growing area of differentiation and competitive conduct between energy firms, which can involve competition law issues, says Gary Hughes of Chapman Tripp.

(To request: email library@energylibrary.org.nz Ref **0908-Hughes**)



Now that California has AMI, what can the state do with it? C.K. Woo and others. *Energy Policy*; Vol 36 (4), April 2008, p.1366-1374

Recognizing the lack of retail-demand response, a state regulator, such as the California Public Utilities Commission (CPUC), seeks tariff proposals that transmit wholesale price signals to a local distribution company's (LDC) retail customers. To enable these proposals, the CPUC has authorized funding for advanced metering infrastructure (AMI) for two investor-owned LDCs. Assuming regulatory approval of the third LDC's application, the state's US\$4.28 billion AMI investment will aid new rate designs for 11.3 million electricity customers. Now that California has AMI, what can the state do with it? With AMI in hand, an LDC can implement service options that can further the state's energy initiatives, ranging from resource adequacy requirement (RAR) to greenhouse gas (GHG) emissions reduction. These options can efficiently allocate limited capacity based on each customer's willingness to pay, without the unnecessary distinction between price rationing and reliability differentiation. They can be Pareto superior, welfare dominating the default tariffs that apply to these customers. A case in point is the generalized demand subscription service (GDSS) option proposed in this paper. However, it is unclear whether the option will find wide customer acceptance, without an LDC's intensive customer education and marketing efforts.

(To request: email library@energylibrary.org.nz Ref **0908-Woo**)

Why installing smart meters may not be all that smart. *The Electricity Journal*; Vol 21 (1), Jan-Feb 2008, p.6-7

(To request: email library@energylibrary.org.nz Ref **0908-Smart**)

Femtocells and their role in metering. A. Pocock. *Metering International*; (1) 2008, p.44,46

(To request: email library@energylibrary.org.nz Ref **0908-Pocock**)

Make a smart decision on intelligent energy metering. J. Elmer. *Energy World*; Nov 2007 (354), p.16-17

The author describes the financial case for smart meters and how their introduction will bring innovation to the UK energy sector.

(To request: email library@energylibrary.org.nz Ref **0908-Elmer**)

Energy efficiency: Super savers: Meters to manage the future. Butler, Declan. *Nature*; 2/8/2007, Vol 445 (7128), p.586-588

(To request: email library@energylibrary.org.nz Ref **0908-Butler**)

World electricity meter report. (2007). 6th edition. ABS Research. (186p.)

Describes the worldwide electricity meter market. Includes information on Automatic Meter Reading (AMR) and Advanced Metering Infrastructure (AMI).

(To request: email library@energylibrary.org.nz Ref **0908-Electricity**)

World gas meter report. (2006), 5th edition. ABS Research. (129p.)

Describes the worldwide gas meter market. Includes information on Automatic Meter Reading (AMR), Advanced Metering Infrastructure (AMI) and Advanced Meter Management (AMM).

(To request: email library@energylibrary.org.nz Ref **0908-Gas**)

Using AMR data for load estimation for distribution system analysis. H. Wang, N. Schulz. *Electric Power Systems Research*; Vol 76 (5), Mar 2006, p.336-342

(To request: email library@energylibrary.org.nz Ref **0908-Schulz**)

Advanced Metering Policy - May 2008 Electricity Commission [policy document](#).

It's so much more than a smart meter. Apr 2008 *Transmission & Distribution World* [article](#).

Advanced metering: Lessons learned from California – 2007 *Currents* [podcast](#)

Load Management and Advanced Metering 2007 – These conference presentations are available on the Electricity Commission's [website](#).

For more articles see also our [Oct 2007 Energy Update](#) (special topic: Modern Metering).

Energy on the Web

New Zealand

Let's hear it for New Zealand – Aug 31 *New York Times* [editorial](#).

Renewable generation gets boost from law changes - 5th Sept [press release](#).

Proposed National Policy Statement on Renewable Electricity Generation – submissions on this [document](#) close 5pm on 31st Oct.

Biofuel Bill - this [bill](#) was passed by Parliament in early September.

Proposed changes to the H1 Compliance Document for hot water and HVAC systems - submissions close on this [document](#) on 8th Oct.

International

'Urgent action' needed to boost renewables, IEA warns – 29th Sept AFP [news](#)
The methane time bomb - Arctic scientists discover new global warming threat as melting permafrost releases millions of tons of a gas 20 times more damaging than carbon dioxide - 23rd Sept *Independent* [news](#).

Google and GE allies in quest for clean energy – 17th Sept AFP [news](#).

DOE to Invest up to \$4.4 Million in Six Innovative Biofuels Projects at U.S. Universities - Sept 10th [media release](#).

WWF targets oilsands after court rules Shell ad is misleading – Aug 13th [news](#).

StopOilSpeculationNow.com – U.S. [website](#).

Can communities generate their own power? – 6th Aug AlterNet [post](#).

CO2 Science. A weekly review and repository of scientific research findings pertaining to carbon dioxide and global change - [website](#).

Conferences and Events

Making Household Energy More Sustainable. Wellington. V.U.W., Law School, LT2 Lambton Quay 12-2pm, 9 Oct 2008. Email timjones@actrix.co.nz (Sustainable Energy Forum)

"The State of the National Grid" A presentation by Dr. Patrick Strange (CEO, Transpower). Wellington, 9 Oct 2008. More details on the Energy Federation [website](#).

Metering & Billing/CRM Australia & New Zealand. Melbourne, 18 – 20 Nov 2008. More details [here](#).

Load Management and Advanced Metering Conference. Wellington, 25 Nov 2008. To register your interest [email](#) your name and details, with 'AMI conference' in the subject line.

2nd Annual Advanced Metering Summit Auckland 26 Nov 2008. More details [here](#).

Reports

New Zealand energy greenhouse gas emissions 1990 - 2007 (2008). Wellington: Ministry of Economic Development.

This report is available [online](#) or you can borrow our copy.

(To borrow this book email library@energylibrary.org.nz Ref: **0908-Emissions**)

First (interim) progress report on the New Zealand Energy Strategy (NZES) including the New Zealand Energy Efficiency and Conservation Strategy (NZECS) - 24 Sept 2008 Government [report](#).

New Zealand skills strategy action plan 2008 – July 2008 Dept of Labour [document](#).

NZ ETS Opportunities [report](#) (released 18 Aug 2008).

Fuel for Thought

Now that the spring grass is growing you might be interested in making yourself a [solar charged lawnmower](#).

Did you know that in some parts of the world [solar panels are becoming the new hot property for thieves](#). Cell-fish perhaps?

To enter into the draw for this month's king size block of Energy chocolate just [email](#) us a better pun about the theft of solar panels than the painful one I made above by 4pm Fri 17th Oct 2008. If you can't think of a pun then tell us who developed the solar lawnmower.

Last month we asked you which country's Red Cross was running a raffle where blood donors could win a year's supply of fuel. The answer was the United States and the chocolate went to Debbie, who was one of the people who answered correctly.



Other Services

Engineering Update and Bioenergy Update: Read the previous ones on the [newsletter page](#) of our website. [Let us know](#) if you would like to go on the mailing list for either of them.

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