

Energy Update

July 2010

Welcome to the latest issue of the Energy Update, a monthly sampling of books, articles, standards, and other resources available from the Energy Library collection. This month our special topic is: [Energy and Buildings](#).

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Kat McAra, Current Awareness Advisor

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New Items for Loan

Electric machinery fundamentals. Chapman, Stephen J. 4th ed. Boston: McGraw-Hill, 2005
An excellent textbook on the subject of electric machinery with well laid out diagrams.
(To borrow this book email library@energylibrary.org.nz Ref: **0710-Loan1**)

Infrastructure as an asset class: Investment strategies, project finance and PPP.
Weber, Barbara; Alfen Hans Wilhelm. Chichester, UK: Wiley, 2010
This book aims to bring together infrastructure investments, project finance, and public private partnerships (PPPs). It also discusses the methodology of project finance.
(To borrow this book email library@energylibrary.org.nz Ref: **0710-Loan2**)

Natural gas market review: 2009. International Energy Agency. Paris: OECD/IEA, 2009
This review looks at the global increase and rise in natural gas prices into early July 2008, then a sharp decline as the recession hit. A main concern is the lack of investment. Sections include: Trading developments in Western Europe; Investments in storage; and An era of global projects begins.
(To borrow this book email library@energylibrary.org.nz Ref: **0710-Loan3**)

AS 60076-1: 2005. Power transformers. Part 1: General.

(To borrow this standard email library@energylibrary.org.nz Ref: **0710-Loan4**)

AS/NZS 1429.2: 2009. Electric cables: polymeric insulated. Part 2: For working voltages above 19/33 (36) kV up to and including 87/150 (170) kV.

(To borrow this standard email library@energylibrary.org.nz Ref: **0710-Loan5**)

IEEE 48: 2009. Standard test procedures and requirements for alternating-current cable terminations used on shielded cables having laminated insulation rated 2.5 kV through 765 kV or extruded insulation rated 2.5 kV through 500 kV.

This standard covers all indoor and outdoor cable terminations used on alternating-current cables having laminated or extruded insulation rated 2.5 kV through 765 kV, except separable insulated connectors, which are covered by IEEE Std 386-1995, IEEE Standard for separable insulated connector systems for power distribution systems above 600 V [B16].

(To borrow this standard email library@energylibrary.org.nz Ref: **0710-Loan6**)

AS/NZS 5050: 2010. Business continuity: Managing disruption related risk.

(To borrow this standard email library@energylibrary.org.nz Ref: **0710-Loan7**)

The seven habits of highly effective people. Covey, Stephen R. New York: Free Press, 2004

In this classic of business literature the author proposes seven habits - based on seven tried-and-true principles - to help you reach your potential in business and in your personal life.

(To borrow this book email library@energylibrary.org.nz Ref: **0710-Loan8**)

Special Journal Issues

Minimising emissions and energy wastage by improved industrial processes and integration of renewable energy. This June 2010 special issue of *Journal of Cleaner Production* contains 7 papers selected from the 12th conference – Process Integration, Modelling and Optimisation for Energy Saving and Pollution Reduction, including:

1. Second generation diesel fuel from renewable sources
2. A graphical representation of carbon footprint reduction for chemical processes
3. Influence of short-term variations on energy-saving opportunities in a pulp mill

(To borrow this journal issue email library@energylibrary.org.nz Ref: **0710-Loan9**)

Retrofit and renovation. This special section in the Feb/Mar 2010 issue of *Build* (BRANZ magazine) contains 12 short articles, including:

1. Sustainable retrofit on a fixed budget
2. Thermal imaging – handle with care
3. Secondary glazing – how well does it work?

(To borrow this journal issue email library@energylibrary.org.nz Ref: **0710-Loan10**)

Credit in energy markets. This special section in *Energy Risk* (May 2010) contains 4 articles:

1. US credit reforms: One size fits all?
2. Q&A: Stanford's Darrell Duffie (an article on modelling credit risk)
3. Credit insurance: How to avoid another credit crisis
4. Deal structures: Re-tooling credit risk management

(To borrow this journal issue email library@energylibrary.org.nz Ref: **0710-Loan11**)

The role of trust in managing uncertainties in the transition to a sustainable energy economy. This special section in *Energy Policy* (June 2010) contains 20 papers, including:

1. Trust between producers, distributors and regulator
2. Consumer engagement in alternative energy--Can the regulators and suppliers be trusted?
3. The institutionalisation of trust in the international climate regime

(To borrow this journal issue email library@energylibrary.org.nz Ref: **0710-Loan12**)

New Management, Marketing and HR Articles

How to stop customers from fixating on price. Bertini, M.; Wathieu, L. *Harvard Business Review*; May 2010, Vol. 88 (5), p.84-91

Paradoxically, as you battle commoditization, your best weapon may be your pricing.

(To request: email library@energylibrary.org.nz Ref: **0710-Price**)

The art of the winback. Taylor, C.; Ueland, J. *Sales & Marketing Management*; Apr 2005, Vol. 157 (4), p.30-34

According to the authors companies have a better chance of winning back old customers than attracting new ones.

(To request: email library@energylibrary.org.nz Ref: **0710-Win**)



Tweeting and blogging to the top. Barnes, N. G. *Marketing Research*; Spring 2010, Vol. 22 (1), p.8-13

(To request: email library@energylibrary.org.nz Ref: **0710-Tweet**)

Understanding the dynamics of information management costs. Tallon, Paul P. *Communications of the ACM*; May 2010, Vol. 53 (5), p.121-125

(To request: email library@energylibrary.org.nz Ref: **0710-IM**)

New lease of life. Barrett, K. *Employment Today*; Jun 2010 (147), p.17-19

An article on the resurgence of executive leasing in New Zealand.

(To request: email library@energylibrary.org.nz Ref: **0710-Leasing**)

Managers' attitudes to teleworking. Scholefield, G.; Peel, S. *New Zealand Journal of Employment Relations*; 01/10/2009, Vol. 34 (3), p.1-13

(To request: email library@energylibrary.org.nz Ref: **0710-Remote**)

Job burnout among construction engineers working within consulting and contracting organizations. Yip, B.; Rowlinson, S. *Journal of Management in Engineering*; Jul 2009, Vol. 25 (3), p.122-130
(To request: email library@energylibrary.org.nz Ref: **0710-Burnout**)

Sending signals: Nonverbal communication can speak volumes. Gentry, William A.; Kuhnert, Karl W. *Leadership in Action*, Nov/Dec 2007, Vol. 27 (5), p.3-7
(To request: email library@energylibrary.org.nz Ref: **0710-Nonverbal**)

Sir John Monash: A legacy of leadership. Adamson, James. *Engineers Australia: Magazine of the Institution of Engineers Australia*; Mar 2010 Vol. 82 (3), p.42-43
An article about Sir John Monash (1865-1931), who was an influential leader in the engineering field in Australia. The author outlines his leadership principles and explains how they are as important as ever for engineers today.
(To request: email library@energylibrary.org.nz Ref: **0710-Leader**)

Producing a programme under the NEC form of contract. Hide, G. *Institution of Civil Engineers. Proceedings - Management, Procurement and Law*; May 2010 Vol. 163 (2), p.59-64
(To request: email library@energylibrary.org.nz Ref: **0710-NEC**)

Project development and cost estimating - a business perspective. Good, Gordon K. *AACE International Transactions*; 2009, p.1-14
(To request: email library@energylibrary.org.nz Ref: **0710-Project**)

Why wash dirty laundry in public? Studying failure is crucial. Hagerty, D. Joseph 'Joe'. *Engineering News Record (ENR)*; 02 Nov 2009, Vol. 263 (14), p.33 (1p.)
This brief article explains the importance of training engineering students in failure analysis.
(To request: email library@energylibrary.org.nz Ref: **0710-Failure**)

New Energy Articles and Environment Articles

Downlight cover-up. Raea, S. *Electrolink*; (78) May - Jun 2010, p.51, 54-56
This article discusses the electrical safety risks resulting from incorrect installation of ceiling insulation in houses with downlights.
(To request: email library@energylibrary.org.nz Ref: **0710-Light**)

Dam didymo. Worrell, Richard. *E.NZ magazine (IPENZ)*; Jul/Aug 2010 Vol. 11 (4), p.44-46
In 2005 didymo - a water-borne algae - was discovered in New Zealand and has quickly taken hold in many of the South Island's high-country rivers. Containment has proven almost impossible because of its ability to thrive in this type of environment. In this article Meridian Energy Strategic Engineer, Malcolm Preston, explains to the author what the company is doing to mitigate the effect of didymo on their hydro-power stations.
(To request: email library@energylibrary.org.nz Ref: **0710-Hydro**)

Application of geographical information system to site selection of small run-of-river hydropower project by considering engineering/economic/environmental criteria and social impact. P. Rojanamon et al. *Renewable and Sustainable Energy Reviews*; Vol. 13 (9), Dec 2009, p.2336-2348

(To request: email library@energylibrary.org.nz Ref: **0710-GIS**)

Changing winds. Buchanan, A. *Planning Quarterly*; Mar 2010 (176), p.5-7
Consideration of alternatives and cost/benefit analysis in an outstanding natural landscape - the Project Hayes decision.

(To request: email library@energylibrary.org.nz Ref: **0710-Hayes**)



Critique of the book 'The Wind Farm Scam - an ecologist's evaluation', (2009), John Etherington, Stacey International, London. Twidell, J. *Wind Engineering*; May 2010, Vol. 34 (3), p.335-350

The book entitled 'The Wind Farm Scam' by John Etherington is being championed as a definitive text by anti-wind groups. This critique considers the content chapter by chapter with a serious analysis. The conclusion is that whilst some of the content is standard knowledge and therefore uncontested, much of the rest stems from an emotional predisposition against the visual impact of wind turbines that leads to prejudice and factual error. The amount of electricity from central generation that is abated by wind power is a key issue, which leads, in an illogical manner, to doubt about climate change. Encouraged by his publisher to state what generation he prefers, Etherington opts for nuclear power.

(To request: email library@energylibrary.org.nz Ref: **0710-Wind**)

Global geothermal energy scenario by 2040. Demirbas, A. H. *Energy Sources Part A: Recovery, Utilization & Environmental Effects*; Dec 2008, Vol. 30 (20), p.1890-1895

(To request: email library@energylibrary.org.nz Ref: **0710-Global**)

A review of methods to evaluate borehole thermal resistances in geothermal heat-pump systems. L. Lamarche et al. *Geothermics*; Vol. 39 (2), June 2010, p.187-200

In the design of a ground-source heat pump (GSHP) system, the heat transfer from the fluid to the ground is influenced by the thermal borehole resistance between the fluid and the borehole surface and also by the interference resistance between the two (or four) pipes inside the borehole. Several authors have proposed empirical and theoretical relations to evaluate these resistances as well as methods to evaluate them experimentally. The paper compares the different approaches and proposes good practice to evaluate the resistances. The impact of the different approaches on the design of heat exchanger is also examined. Two-dimensional and fully three-dimensional numerical simulations are used to evaluate the different methods. A new method is also proposed to evaluate the borehole resistances from in situ tests.

(To request: email library@energylibrary.org.nz Ref: **0710-Thermal**)

Coupled models of brittle-plastic deformation and fluid flow: approaches, methods, and application to Mesoproterozoic mineralisation at Mount Isa, Australia. Klaus Gessner. *Surveys in Geophysics*; Jun 2009, Vol. 30 (3), p.211-232

(To request: email library@energylibrary.org.nz Ref: **0710-Geothermal**)

A linguistic decision support model towards the promotion of renewable energy.

Doukas, H.; Psarras, J. *Energy Sources Part B: Economics, Planning & Policy*; Apr 2009, Vol. 4 (2), p.166-178

In the pursuit of energy market restructure to sustainable forms of development, governments have at their disposal an increasingly diverse mix of renewable energy sources options. Indeed, renewable energy sources can be seen as a way to reduce carbon emissions, decrease fossil fuel imports, and meet other energy policy objectives. However, appraising renewable energy sources options is a really complex task, taking into consideration the imprecision and subjectivity of the related information. The main scope of this article is to present a transparent and flexible multiple criteria decision support model, based on TOPSIS extension, using the 2-tuple representation. This model aims to assist the energy actors for appraising renewable energy sources options in terms of their contribution to the energy policy objectives, using linguistic variables. Moreover, the application of the proposed model's software realization to a number of renewable energy sources options of the Greek energy market is presented and discussed.

(To request: email library@energylibrary.org.nz Ref: **0710-Promotion**)

Solar energy in Europe - the potential for PV and thermal technologies. *Energy World*;

Feb 2010 (379), p.12-14

We read a lot about the potential for wind power to contribute quite large proportions of electricity demand in Europe - figures of 20% and more are often quoted. So what are the corresponding estimates for the main solar technologies: photovoltaics (PV) and solar thermal?

(To request: email library@energylibrary.org.nz Ref: **0710-PV**)

Environmental impacts from the solar energy systems. Gunerhan, H. et al. *Energy*

Sources Part A: Recovery, Utilization & Environmental Effects; Jan 2009, Vol. 31 (2), p.131-138

(To request: email library@energylibrary.org.nz Ref: **0710-Solar**)

Fuel additive effects on soot across a suite of laboratory devices, Part 1: Ethanol.

Litzinger, T. et al. *Combustion Science & Technology*; Feb 2009, Vol. 181 (2), p.310-328

The impact of a variety of non-metallic fuel additives on soot was investigated in a collaborative university, industry and government effort. The main objective of this program was to obtain fundamental understanding of the mechanisms through which blending compounds into a fuel affects soot emissions. The research team used a suite of laboratory devices that included a shock tube, a well-stirred reactor, a premixed flat flame, an opposed-jet diffusion flame, and a high pressure turbulent reactor. The work reported here focuses on the effects of ethanol addition to ethylene on soot. The addition of ethanol led to substantial reductions in soot in all of the devices except for the opposed-jet diffusion flame. Modeling of the premixed flame and opposed-jet diffusion flame was used to obtain insights into the mechanism behind the opposing effects of ethanol addition in these two flames.

(To request: email library@energylibrary.org.nz Ref: **0710-Ethanol**)

Co-combustion of pellets from soma lignite and waste dusts of furniture works.

Deveci, N. Duranay et al. *International Journal of Green Energy*; 2008, Vol. 5 (6), p.456-465

(To request: email library@energylibrary.org.nz Ref: **0710-Lignite**)

Norwegian households' perception of wood pellet stove compared to air-to-air heat pump and electric heating. Bertha Maya Sopha et al. *Energy Policy*; Vol. 38 (7), Jul 2010, p.3744-3754

(To request: email library@energylibrary.org.nz Ref: **0710-Pellet**)

Electrical issues associated with sea-water immersed windings in electrical generators for wave- and tidal current-driven power generation. J. Fletcher. et al. *IET Renewable Power Generation*; Jun 2009, Vol. 3 (2), p.254-264

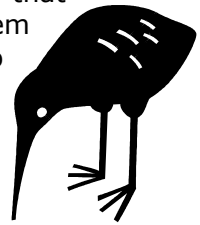
(To request: email library@energylibrary.org.nz Ref: **0710-Wave**)

Profile of active IGCC projects under development or in build. Jaeger, H. *Gas Turbine World*; Jan - Feb 2010, Vol. 40 (1), p.22-25

(To request: email library@energylibrary.org.nz Ref: **0710-IGCC**)

Is there an asymmetry in the response of diesel and petrol prices to crude oil price changes? Evidence from New Zealand. M.-H. Liu et al. *Energy Economics*; Vol. 32 (4), July 2010, p.926-932

This paper examines how pre-tax petrol and diesel prices in New Zealand respond to changes in crude oil prices using an asymmetric error correction model. Our results show that oil companies adjust diesel prices upwards faster than they adjust them downwards, and the difference is statistically significant. However we find no statistical evidence for an asymmetry in the adjustment of petrol prices even though the magnitude of estimated coefficients suggests a faster response to rising prices. As diesel pricing is not as competitive as petrol pricing, calls for further government actions and monitoring of the oil market may be justified. Our findings also have important implications for the conduct of monetary policy as the pass-through of crude oil price changes can affect cost-push inflation.



(To request: email library@energylibrary.org.nz Ref: **0710-Petrol**)

Transportation: meeting the dual challenges of achieving energy security and reducing greenhouse gas emissions. Michael Quanlu Wang; Hong Huo. *Frontiers of Energy and Power Engineering in China*; Jun 2009, Vol. 3 (2), p.212-225

(To request: email library@energylibrary.org.nz Ref: **0710-Transport**)

The new era of climate risk disclosure. Nieland, Kathy et al. *Corporate Board*, May/June 2010, Vol. 31 (182), p.1-6

An article about the U.S. Securities and Exchange Commission (SEC) climate risk rules.

(To request: email library@energylibrary.org.nz Ref: **0710-Climate**)

Playing the long game. Cundy, C. *Environmental Finance*; Apr 2010, Vol. 11 (6), p.20-21

Competition among exchanges for a slice of the carbon trading pie remains fierce, despite pessimism about market growth.

(To request: email library@energylibrary.org.nz Ref: **0710-Carbon**)

Morality and climate change: is leaving your TV on standby a risky behaviour? Butler, C. *Environmental Values*; May 2010, Vol. 19 (2), p.169-192
(To request: email library@energylibrary.org.nz Ref: **0710-TV**)

What's in it for the Chief Financial Officer? The financial dynamics of corporate energy management. Russell, C. *Strategic Planning for Energy & the Environment*; Summer 2009, Vol. 29 (2), p.53-66
(To request: email library@energylibrary.org.nz Ref: **0710-CFO**)

Energy optimization for water systems. W. H. Biehl; J. A. Inman. *American Water Works Association. Journal*; Jun 2010. Vol. 102 (6), p.50 (6p.)
(To request: email library@energylibrary.org.nz Ref: **0710-Water**)

A review of heat pump water heating systems. A. Hepbasli; Y. Kalinci. *Renewable and Sustainable Energy Reviews*; Vol. 13 (6-7), Aug-Sept 2009, p.1211-1229
(To request: email library@energylibrary.org.nz Ref: **0710-Pump**)

Li-Ion batteries. Battaglini, John. *Advanced Materials & Processes*; Jul 2010, Vol. 168 (7), p26-27
An article about advances in Lithium Ion (Li-Ion) battery technology.
(To request: email library@energylibrary.org.nz Ref: **0710-Batteries**)

Probabilistic constrained load flow considering integration of wind power generation and electric vehicles. Vlachogiannis, J. G. *IEEE Transactions on Power Systems*; 24 (4), 2009, p.1808-1817
A new formulation and solution of probabilistic constrained load flow (PCLF) problem suitable for modern power systems with wind power generation and electric vehicles (EV) demand or supply is represented. The developed stochastic model of EV demand/supply and the wind power generation model are incorporated into load flow studies. In the resulted PCLF formulation, discrete and continuous control parameters are engaged. Therefore, a hybrid learning automata system (HLAS) is developed to find the optimal offline control settings over a whole planning period of power system. The process of HLAS is applied to a new introduced 14-busbar test system which comprises two wind turbine (WT) generators, one small power plant, and two EV-plug-in stations connected at two PQ buses. The results demonstrate the excellent performance of the HLAS for PCLF problem. New formulae to facilitate the optimal integration of WT generation in correlation with EV demand/supply into the electricity grids are also introduced, resulting in the first benchmark. Novel conclusions for EV portfolio management are drawn. © 2009 IEEE. Reprinted with permission of the IEEE.
(To request: email library@energylibrary.org.nz Ref: **0710-EV**)

The effect of utility time-varying pricing and load control strategies on residential summer peak electricity use: A review. G. R. Newsham; B. G. Bowker. *Energy Policy*; Vol. 38 (7), July 2010, p.3289-3296
(To request: email library@energylibrary.org.nz Ref: **0710-Load**)

Not a straightforward process. Brinded, L. *Energy Risk*; May 2010 Vol. 7 (7), p.46-48,50
An article about straight-through processing (STP) in energy markets.
(To request: email library@energylibrary.org.nz Ref: **0710-STP**)

A decision support system for generation expansion planning in competitive electricity markets. Pereira, Adelino J.C.; Saraiva, Joao Tome. *Electric Power Systems Research*; Vol. 80 (7), July 2010, p.778-787
(To request: email library@energylibrary.org.nz Ref: **0710-Expansion**)

Smart transmission grid applications and their supporting infrastructure. Bose, A.; *IEEE Transactions on Smart Grid*; Jun 2010, Vol. 1 (1), p.11-19
(To request: email library@energylibrary.org.nz Ref: **0710-Smart**)

Transmission cost allocation based on use of reliability margin under contingency conditions. Monsef, H.; Jaefari, M. *IET Generation, Transmission & Distribution*; Jun 2009, Vol. 3 (6), p.574-585
(To request: email library@energylibrary.org.nz Ref: **0710-Cost**)

Pressure wave propagation induced by short circuits inside power transformers: Development of a simulation tool, comparisons with experiments and applications. Muller, S. et al. *International Journal of Multiphysics*; Dec 2009, Vol. 3 (4), p.361-386
(To request: email library@energylibrary.org.nz Ref: **0710-Transformers**)

Optimal location of shunt FACTS devices in long transmission lines to improve transient stability. Panda, S.; Patel, R. N. *International Journal of Electrical Engineering Education*; Apr 2009, Vol. 46 (2), p.150-163
(To request: email library@energylibrary.org.nz Ref: **0710-Shunt**)

Remaining service life diagnostic technology of insulators for power distribution equipment. Miki, S. et al. *Electrical Engineering in Japan*; Apr 2009, Vol. 167 (2), p.1-9
(To request: email library@energylibrary.org.nz Ref: **0710-Life**)



Special Topic: Energy and Buildings

Optimizing cost effective energy conservation measures for building envelope. Doyoon Kim. *Energy Engineering*; 2010. Vol. 107 (3), p.70-80
(To request: email library@energylibrary.org.nz Ref: **0710-Topic1**)

Optimizing building energy efficiency with modeling and intelligent controls. Robert A. Kramer et al. *Energy Engineering*; 2010. Vol. 107 (2), p.52-80

This article describes the results of a study that was conducted to establish a plan and subsequently perform modifications to the controls and operating strategy of a conference center located in Hammond, Indiana to maximize energy efficiency.

(To request: email library@energylibrary.org.nz Ref: **0710-Topic2**)

Factors influencing energy efficiency investments in existing Swedish residential buildings. Gireesh Nair et al. *Energy Policy*; Vol. 38 (6), Jun 2010, p.2956-2963

(To request: email library@energylibrary.org.nz Ref: **0710-Topic3**)

Simulation study on hydronic balancing to improve individual room control for radiant floor heating system. K. N. Rhee et al. *Building Services Engineering Research & Technology*; Feb 2010. Vol. 31 (1), p.57-73

(To request: email library@energylibrary.org.nz Ref: **0710-Topic4**)

Rethinking design for energy performance. Bors, Douglas A. *Strategic Planning for Energy & the Environment*; Spring 2009, Vol. 29 (1), p.15-22

The term "integrated design" is often used and describes a wide range of activities. The Northwest Energy Efficiency Alliance, through its BetterBricks program, has for several years strengthened the connection between integrated design and improved energy performance in buildings. This article explores integrated design activities and links integrated design to continuing improvements in energy performance in buildings.

(To request: email library@energylibrary.org.nz Ref: **0710-Topic5**)

Decarbonising buildings by indirect use of gas and biomass. Squire, S. et al. *Institution of Civil Engineers. Proceedings - Energy*; Nov 2009 Vol. 162 (4), p.169-181

(To request: email library@energylibrary.org.nz Ref: **0710-Topic6**)

Commercial building retuning: A low-cost way to improve energy performance.

Michael R. Brambley; Srinivas Katipamula. *ASHRAE Journal*; Oct 2009. Vol. 51 (10), p.12-23

(To request: email library@energylibrary.org.nz Ref: **0710-Topic7**)

Building energy research in Hong Kong: A review. Zhenjun Ma; Shengwei Wang. *Renewable and Sustainable Energy Reviews*; Vol. 13 (8), Oct 2009, p.1870-1883

(To request: email library@energylibrary.org.nz Ref: **0710-Topic8**)

How energy efficiency fails in the building industry. Marianne Ryghaug; Knut H. Sorensen. *Energy Policy*; Vol. 37 (3), Mar 2009, p.984-991

This paper examines how energy efficiency fails in the building industry based on many years of research into the integration of energy efficiency in the construction of buildings and sustainable architecture in Norway.

(To request: email library@energylibrary.org.nz Ref: **0710-Topic9**)

Reducing energy use in the buildings sector: Measures, costs, and examples. L. D. Danny Harvey. *Energy Efficiency*; May 2009, Vol. 2 (2), p.139-163
(To request: email library@energylibrary.org.nz Ref: **0710-Topic10**)

Toward the sustainable adaptation of existing facilities. Peter Love; Peter Arthur Bullen. *Facilities*; 2009, Vol. 27 (9/10), p.357-367
(To request: email library@energylibrary.org.nz Ref: **0710-Topic11**)

The impact of multi-level governance on energy performance in the Dutch existing housing stock. Hoppe, Thomas; Lulofs, Kris. *Energy & Environment*; 2008, Vol. 19 (6), p.819-830
(To request: email library@energylibrary.org.nz Ref: **0710-Topic12**)

Featured Energy Events

Wind Integration Workshop. (NZWEA and CIGRE). 11 August 2010, Wellington. For more information visit the NZWEA [website](#).



Dry and Calm Spells: Implications for Economics of Wind. 18 Aug 2010, Wellington Energy Federation Lunchtime Seminar with Brian Bull (Electricity Commission) and Fraser Clark (New Zealand Wind Energy Association). For more information visit the EFNZ [website](#).

The Energy Roundtable Agenda10. 8th Sept 2010, Intercontinental Hotel, Wellington.

With great networking opportunities at this year's Energy Roundtable Agenda10 - share perspectives, collaborate, and engage in strategic dialogue with senior industry leaders and decision makers for one day of insightful exchange. Topics include security of supply, energy storage, energy planning and policy.

This year's international speaker is Karen Ehrhardt-Martinez, Senior Researcher, Renewable and Sustainable Energy Institute (RASEI), University of Colorado at Boulder. Before taking up this position with the Renewable and Sustainable Energy Institute (RASEI) at the University of Colorado at Boulder, Karen was the founder of Human Dimensions Research Associates, an organisation that uses applied social science research to create smart energy initiatives. Prior to that Karen was a Research Associate with the American Council for an Energy-Efficient Economy (ACEEE) where she was the Chair for the Behaviour, Energy and Climate Change Conference. With more than 15 years of experience in academic and applied research, Karen was responsible for leading ACEEE's efforts on the social and behavioural dimensions of energy efficiency and environmental change. Karen has also just written Chapter 16 on Behaviour Change for the next 'Energy Technology Perspectives 2010' for the IEA. Karen is regarded as a global leader in her field and her session is not to be missed.

For more information or to register on-line, visit this Conferenz [website](#) or ph (09) 912 3616.

Energy on the Web

New Zealand



Draft New Zealand energy strategy and Draft New Zealand energy efficiency and conservation strategy – consultation [document](#).

Some biofuels are better than others: Thinking strategically about biofuels – Parliamentary Commissioner for the Environment [report](#).

Energy greenhouse gas emissions 2010 - MED [report](#).

Genesis Energy 2010 Statement of corporate intent – corporate [report](#).

Correlation between wind generation output and hydro inflows – Electricity Commission research [report](#).

Update to "Geothermal Energy: Summary of emerging technologies and barriers to development" - The final updated summary MED [report](#) incorporating feedback.

No land to be removed from Schedule 4 – Ministers' media [release](#).

New Zealand Energy Data File 2010 – MED [publication](#).

Resource Management (Discount on Administrative Charges) Regulations 2010: Implementation guidance – Ministry for the Environment [publication](#).

A principal's guide to contracting to meet the Health and Safety in Employment Act 1992 – OSH [publication](#).

A framework for predicting and managing water quality impacts of mining on streams: A user's guide – this [framework](#) was developed by Landcare Research, CRL Energy Ltd and the Universities of Canterbury and Otago.

Resource consent Processing: Showcasing best practice case studies – Ministry for the Environment [publications](#).

Submissions on the Initial Electricity Industry Participation Code – submissions can be viewed on the MED [website](#).

Transmission Pricing Review: stage 2 consultation paper – Electricity Commission [document](#). Deadline for submissions: 4pm 31 August 2010.

Housing life cycle and sustainability - Part two [SR235] – BRANZ [report](#).

Smart power – This June 12-18 *New Zealand Listener* cover story about security of electricity supply in New Zealand is now available [online](#).

Smart meters: Frequently asked questions - Electricity Commission [publication](#).

International

Google PowerMeter - free energy monitoring [tool](#) that allows you to view your home's energy consumption from anywhere online.



Meet the 'Jetsons' - Australia's first smart home family moving in - NSW government media [release](#).

Australian Electricity Supply Industry Skills Passport - ENA (Australia) [resource](#).

Zero carbon Australia 2020 stationary energy plan - Beyond Zero Emissions [report](#).

Global petroleum survey 2010 - Fraser Institute [report](#).

Building a low-carbon economy: The UK's innovation challenge - Committee on Climate Change (CCC) [report](#).

Unlocking investment to deliver Britain's low carbon future - Green Investment Bank (GIB) Commission [report](#).

Broadband deployment and sharing other utilities' infrastructure - UK government discussion [paper](#).

SAFELEC 2010 Ninth and Final Progress Report - ENA (UK) [report](#).

Understanding consumer preferences in energy efficiency in the utilities industry - Accenture [report](#).

The Independent Climate Change E-mails Review - CCE [report](#).

The cumulative impact of climate change policies on UK energy intensive industries: Are policies effectively focussed? - Waters Wye Associates summary [report](#).

Geothermal essentials - IEA [fact sheet](#).

The 21st century electric utility: Positioning for a low-carbon future - Ceres [report](#).

Customer service measures for reliability and power quality - ENA discussion [paper](#).

Renewables 2010 global status report - REN21 annual [publication](#).

Climate change, water, and risk - Tetra Tech [report](#) for the Natural Resources Defense Council (NRDC)

Global gas and LNG markets & GB's security of supply - Pöyry [report](#) for the UK government.

Security of gas supply: European scenarios, policy drivers and impact on GB - Pöyry [report](#).

Advanced metering initiatives and residential feedback programs: A meta-review for household electricity-saving opportunities - June 2010 ACEEE [report](#).

Frontiers in adaptation science - [video and presentations](#) from the 2010 Climate Adaptation Futures Conference on the Gold Coast.

UK Smart Metering Implementation Programme prospectus – consultation [document](#).

Fuel for Thought (Energy chocolate competition)

To be in to win this month's block of Energy chocolate just [tell us](#) the answer to this question:

What is the title of the *New Zealand Listener* article on security of supply mentioned in the Energy on the Web section of this Energy Update?



Draw closes 4pm Fri 20th August. Congratulations to Sonia, who won last month's draw.

Other Services

IPENZ Engineering Update: View previous issues [here](#). The special topic for July is *Corrosion in the Marine Environment*.

EIANZ Environment Update: View the inaugural issue of this quarterly publication [here](#). The special topic was *Biodiversity*.

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