

Energy Update

October 2011

Welcome to the latest issue of the Energy Update, a monthly sampling of books, articles, standards, reports and other resources available from the Energy Library collection.

This month our special topic is: [District Heating](#). We welcome your input, so if you have a suggestion for a future special topic, please [email](#) it to us.

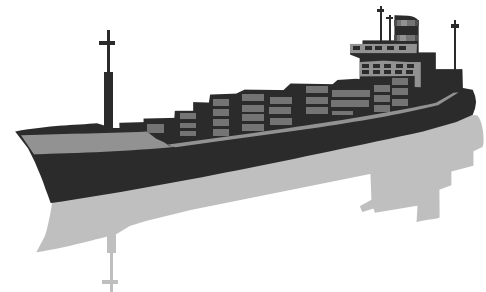
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Kat McAra, Information Advisor

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New Items for Loan

The carbon forest: A New Zealand guide to forest carbon sinks for investors, farmers, foresters and conservationists. Kennett, Paul. Wellington: Kennett Publishers, 2010

This book explains how to set up a carbon forest sink that will earn valuable carbon credits via the Emissions Trading Scheme. It describes in plain language the various carbon trading schemes set up to encourage landowners to plant trees in order to store carbon from the atmosphere.

(To borrow this book email library@energylibrary.org.nz Ref: **1011-Loan1**)

Climate adaptation and flood risk in coastal cities. Aerts, Jeroen (ed). London: Earthscan, 2012

This book explores different aspects of climate adaptation and flood risk in coastal cities, including an independent investigation of comparative adaptation problems and solutions in the coastal or delta cities of Rotterdam, New York and Jakarta.

(To borrow this book email library@energylibrary.org.nz Ref: **1011-Loan2**)

Reconstructing Kobe: The geography of crisis and opportunity. Edgington. David W. Vancouver: University of British Columbia Press, 2011

Japan has much experience of urban disaster recovery and planning. This important book records the first ten years of reconstruction and recovery after the Great Hanshin Earthquake. (To borrow this book email library@energylibrary.org.nz Ref: **1011-Loan3**)

ISO 50001: 2011. Energy management systems: Requirements with guidance for use.

(To borrow this standard email library@energylibrary.org.nz Ref: **1011-Loan4**)

Clever: Leading your smartest, most creative people. Goffe, Rob; Jones, Gareth. Boston, Mass.: Harvard Business Press, 2009

Using this book you can identify who the "clevers" are and how to lead these highly talented individuals successfully and effectively in your organisation.

(To borrow this book email library@energylibrary.org.nz Ref: **1011-Loan5**)

Management bites. Atkins, Angela. Auckland: HarperCollins, 2009

This New Zealand book covers every area of business management. It is full of practical ways to manage yourself and your team with real-life examples of what went right and how to fix what's gone wrong.

(To borrow this book email library@energylibrary.org.nz Ref: **1011-Loan6**)

The high-performance organization. The Jul/Aug 2005 issue of *Harvard Business Review* contains some classic articles on this important management topic:

Designing high-performance jobs; Level 5 leadership; Strategic intent; The balanced scorecard; The discipline of teams; Collaboration rules; What really works; Manage your human sigma; Moments of greatness; Toward a theory of high performance.

(To borrow this whole journal issue email library@energylibrary.org.nz Ref: **1011-Loan7**)

Sediment flux, morphology and river management. The July 2011 issue of *Journal of Hydrology (New Zealand)* contains 13 articles on this topic, including:

- Fluvial sediment-transport processes and morphology.
- Using morphological adjustments to appraise sediment flux.
- Modelling sediment flux: A review of New Zealand catchment-scale approaches.
- Estimates of sediment transport in gravel-bed rivers of North Island, New Zealand.
- Sediment management in the Waikato region, New Zealand.

(To borrow this whole journal issue email library@energylibrary.org.nz Ref: **1011-Loan8**)

Future skills 2011. This *Energy World* supplement contains 12 articles, including:

- Preparing for a job explosion in the renewables industry.
- Delivering the engineers of tomorrow.
- Microgeneration, low carbon systems and skills.
- Energy skills: challenges and opportunities.
- A new approach for graduate training.

(To borrow this whole journal issue email library@energylibrary.org.nz Ref: **1011-Loan9**)

Management, Marketing and HR Articles

Making yourself indispensable. *Harvard Business Review*; Oct 2011, Vol. 89 (10), p.84-92
Peter Drucker and other leadership thinkers have long argued that leaders should focus on strengthening their strengths. How should they do that? Improving on a weakness is pretty easy and straight forward: You can make measurable progress by honing and practicing basic techniques. But developing a strength is a different matter, because simply doing more of what you're good at will yield only incremental improvements. If you are strong technically, becoming even more of a technical expert won't make you a dramatically better leader. If, however, you use what the authors call "nonlinear development"- similar to an athlete's cross-training-you can achieve exponential results. Your technical expertise will become more powerful if, for instance, you build on your communication skills, enabling you to explain technical problems both more broadly and more effectively. The authors, all from the leadership development consultancy Zenger Folkman, present a step-by-step process by which developing leaders can identify their strengths (through either a formal or an informal 360-degree evaluation), select appropriate complementary skills (the article identifies up to a dozen for each core strength), and develop those skills to dramatically improve their strengths-making themselves uniquely valuable to their companies.
(To request: email library@energylibrary.org.nz Ref: **1011-Making**)

Innovators love yoga and you should too. Kudesia, R. S. *Leader to Leader*; Fall 2010, Vol. 2010 (58), p.11-16
How yoga can improve stress management, self-control, and creative thinking.
(To request: email library@energylibrary.org.nz Ref: **1011-Yoga**)

A stitch in time saves nine: Leveraging networks to reduce the costs of turnover. Ballinger, Gary et al. *California Management Review*; Summer 2011, Vol. 53 (4), p.111-133
(To request: email library@energylibrary.org.nz Ref: **1011-Turnover**)

Employer-supported volunteering benefits: Gift exchange among employers, employees, and volunteer organizations. Booth, Jonathan E. et al. *Human Resource Management*; Mar/Apr 2009, Vol. 48 (2), p.227-249
(To request: email library@energylibrary.org.nz Ref: **1011-Volunteer**)

Dealing with rough times: A capabilities development approach to surviving and thriving. Mohrman, S. A.; Worley, C. G. *Human Resource Management*; May 2009, Vol. 48 (3), p.433-445
(To request: email library@energylibrary.org.nz Ref: **1011-Thrive**)



Improving marketing-operations cross-functional relationships. Piercy, N. *Journal of Strategic Marketing*; Jul 2010, Vol. 18 (4), p.337-356
Collaboration between marketing and operational areas is critical to business success. Despite this, in practice most companies suffer hostile and adversarial relationships between these functions. Existing research has not sufficiently addressed methods for improving this situation outside of the large corporation or manufacturing sector. This paper seeks to address this shortcoming, investigating mechanisms to support better cross-functional relationships in the

small-medium enterprise and in the service sector. Five case studies are presented of companies that displayed a-typically good relationships between marketing and operations groups. A cross-comparison is conducted to identify key themes and approaches that provide for and support good cross-functional relationships. Three key methods are presented and proposed as sources of positive marketing-operations relationships: (1) manipulation of pay/reward mechanisms; (2) clear strategy and strategic leadership; and (3) an explicit focus on bringing people together.

(To request: email library@energylibrary.org.nz Ref: **1011-Marketing**)

What are some of the current best practices in telecommuting? *HR Focus*; Jul 2011, Vol. 88 (7), p.S.1-S.4

(To request: email library@energylibrary.org.nz Ref: **1011-Best**)

Optimizing resource utilization during the recovery of civil infrastructure systems.

Orabi, W. et al. *Journal of Management in Engineering*; Oct 2010, Vol. 26 (4), p.237-246

Postdisaster recovery efforts of damaged civil infrastructure systems need to be optimized in order to alleviate the adverse impacts of natural disasters on local societies and economies. This paper presents an innovative framework that integrates two newly developed models for resource utilization and multiobjective optimization that are designed to optimize these recovery efforts. [Abstract shortened].

(To request: email library@energylibrary.org.nz Ref: **1011-Recovery**)

Investigating the impact of project managers' emotional intelligence on their interpersonal competence. Davis, Steven A. *Project Management Journal*; Jul 2011, Vol. 42 (4), p.37-57

(To request: email library@energylibrary.org.nz Ref: **1011-Competence**)

Sustainability edges towards the MBA core. Jeffries, Elisabeth. *Environmental Finance*; Apr 2011 Vol. 12 (6), p.18-19

Change is in the air at many business schools, says Elisabeth Jeffries, with a growing number incorporating sustainability and corporate responsibility issues into the heart of their MBA courses.

(To request: email library@energylibrary.org.nz Ref: **1011-MBA**)

How to establish trustworthiness in initial service encounters. Geigenmüller, A.; Greschuchna, L. *Journal of Marketing Theory & Practice*; Fall 2011, Vol. 19 (4), p.391-406

(To request: email library@energylibrary.org.nz Ref: **1011-Service**)

Meeting the challenges of electrical engineering service courses. Wilson, R. et al. *Australian Journal of Engineering Education*; 2011, Vol. 17 (2), p.91-100

(To request: email library@energylibrary.org.nz Ref: **1011-Education**)

Making training work. *Training Journal*; Jul 2011, p.46-49

(To request: email library@energylibrary.org.nz Ref: **1011-Train**)

How fast and flexible do you want your information, really? Davenport, Thomas H.; Hagemann Snabe, Jim. *MIT Sloan Management Review*; Spring 2011, Vol. 52 (3), p.57-62
Almost all executives want more and faster information, and almost all companies are racing to provide it. What many of them overlook, though, is that the real aim should be not faster information but faster decision making — and those aren't the same things.
(To request: email library@energylibrary.org.nz Ref: **1011-Fast**)



Is your speech filled with um? Bell, R. L. *Supervision*; Oct 2011, Vol. 72 (10), p.10-13
Tips for avoiding filled pauses during formal presentations.
(To request: email library@energylibrary.org.nz Ref: **1011-Speech**)

A behavioral roles approach to assessing and improving the team leadership capabilities of managers. Hobson, C. J. et al. *International Journal of Management*; Apr 2010, Vol. 27 (1), p.3-15
(To request: email library@energylibrary.org.nz Ref: **1011-Leader**)

Outsourcing your HR. Parkes, Clare. *Employment Today*; Mar/Apr 2011 (154), p.36-37
(To request: email library@energylibrary.org.nz Ref: **1011-HR**)

What's so great about Beca? This Sept 2011 *New Zealand Management* article is [online](#).

Energy / Environment Articles

Plug-in hybrid electric vehicles can be clean and economical in dirty power systems. Ramteen Sioshansi; Jacob Miller. *Energy Policy*; Vol. 39 (10), Oct 2011, p.6151-6161
Plug-in hybrid electric vehicles (PHEVs) that are driven and charged in 'dirty' power systems, with high penetrations of coal and other polluting generation fuels, may yield higher net emissions than conventional vehicles (CVs). We examine the implications of imposing a constraint on PHEV recharging that forces emissions from PHEVs to be no greater than those from a comparable CV. We use the Texas power system, which has a mix of coal- and natural gas-fired generation and has been shown to yield higher emissions from PHEVs than CVs, as a case study. Our results show that imposing the emissions constraint results in most of the PHEV charging loads being shifted from coal- to cleaner natural gas-fired generators. There is, however, virtually no increase in generation or PHEV driving costs due to efficiency benefits that are possible through coordination of unit commitment and PHEV charging decisions.
(To request: email library@energylibrary.org.nz Ref: **1011-Hybrid**)

Chasing the wind. Clark, Lindsay. *Energy NZ*; Vol. 5 (5) Sep/Oct 2011, p.32-33
The new chief of the wind association talks to Lindsay Clark about the reliability of New Zealand wind, the emerging 'windsmiths' skill set, his faith in electric vehicles, and a generation target of 20 percent by 2030.
(To request: email library@energylibrary.org.nz Ref: **1011-Wind**)

Setting the operating reserve using probabilistic wind power forecasts. M. A. Matos; R. J. Bessa. *IEEE Transactions on Power Systems*; May 2011 Vol. 26 (2), p.594- 603
(To request: email library@energylibrary.org.nz Ref: **1011-Reserve**)

Analyses and perspectives for Brazilian low carbon technological development in the energy sector. J. Lampreia et al. *Renewable and Sustainable Energy Reviews*; Vol. 15 (7), Sept 2011, p.3432-3444
(To request: email library@energylibrary.org.nz Ref: **1011-Carbon**)

Ontario feed-in-tariffs: System planning implications and impacts on social welfare. Mehrdad Pirnia et al. *The Electricity Journal*; Vol. 24 (8), Oct 2011, p.18-28
An analysis of the policy implications of Ontario's FITs on overall societal welfare suggests that, if unbounded, existing FIT tariffs would have a large negative impact on consumer welfare, with an overall net loss on total social welfare. Negative impacts could be minimized by controlling the quantities.
(To request: email library@energylibrary.org.nz Ref: **1011-FIT**)

Marine energy on a global scale. Cavanagh, J. *Energy World*; Sep 2011 (396), p.14-15
In many ways, the UK leads the world in the development of ocean wave and tidal energy technology. However, there is a surprising amount of activity around the rest of the world.
(To request: email library@energylibrary.org.nz Ref: **1011-Marine**)

Comparison of a modelled and field tested piled ground heat exchanger system for a residential building and the simulated effect of assisted ground heat recharge. Wood, C. J. et al. *International Journal of Low Carbon Technologies*; Sep 2010, Vol. 5 (3), p.137-143
(To request: email library@energylibrary.org.nz Ref: **1011-Ground**)

Theoretical and experimental investigations of solar heating systems at specified output conditions of hot water. Tadros, W. et al. *Journal of Energy & Power Engineering*; Sep 2011, Vol. 5 (9), p.842-847
(To request: email library@energylibrary.org.nz Ref: **1011-Solar**)

Towards cheaper solar cells: A new path to grow silicon ribbons. Augusto, A. et al. *Journal of Environmental Science & Engineering*; Aug 2011, Vol. 5 (8), p.1073-1078
(To request: email library@energylibrary.org.nz Ref: **1011-Cells**)

3D numerical modeling of hydrothermal processes during the lifetime of a deep geothermal reservoir. Blöcher, M. G. et al. *Geofluids*; Aug 2010, Vol. 10 (3), p.406-421
(To request: email library@energylibrary.org.nz Ref: **1011-Geothermal**)

Review: Thermal water resources in carbonate rock aquifers. Nico Goldscheider et al. *Hydrogeology Journal*; Sep 2010, Vol. 18 (6), p.1303-1318
(To request: email library@energylibrary.org.nz Ref: **1011-Rock**)

Data consolidation from hydroelectric plants. Hidalgo, Ieda G. et al. *Journal of Energy Engineering*; Sep 2010, Vol. 136 (3), p.87-94
(To request: email library@energylibrary.org.nz Ref: **1011-Hydro**)

Fuel characterization of pellet chips. Eriksson, Gunnar Lars et al. *Forest Products Journal*; Feb 2011, Vol. 61 (2), p.143-148
(To request: email library@energylibrary.org.nz Ref: **1011-Pellet**)

Domestic energy use, lifestyles and POE: Past lessons for current problems. Vale, Brenda; Vale, Robert. *Building Research & Information*; Sep/Oct2010, Vol. 38 (5), p.578-588
Many research and demonstration projects in the 1970s showed it was not difficult to make houses with a much lower energy use than conventional ones. Some of these projects also included autonomous systems, such as collecting and using rainwater and growing food on site. These projects not only recognized clear limits, but also translated into consumption restraints for occupants which positively affected their behaviour. However, these ideas failed to become mainstream. This resulted in houses in many developed countries becoming more energy efficient, but, paradoxically, the demands for increased floor area and amenity suggested that what users actually want is more rather than fewer resources. Building regulations to save energy have been outweighed, in terms of resources consumed, by other consumer-led moves. Seminal ideas and projects from the 1970s for the design of low-energy, autonomous houses are re-evaluated showing where resource reductions through synergy of lifestyle activities can be made. Post-occupancy evaluation (POE) could have a significant role in the lowering of environmental impacts, but the framing of domestic POE must embrace a rating of the occupants' behaviour. A key challenge is to provide indicators not only on technical performance and usability, but also on user behaviours.
(To request: email library@energylibrary.org.nz Ref: **1011-Domestic**)

Low energy refurbishment strategies for health buildings. Short, C. Alan et al. *Journal of Building Performance Simulation*; Sep 2010, Vol. 3 (3), p.197-216
(To request: email library@energylibrary.org.nz Ref: **1011-Buildings**)



Quantifying changes in building electricity use, with application to demand response. Mathieu, J. L. et al. *IEEE Transactions on Smart Grid*; Sept 2011, Vol. 2 (3), p.507 - 518
(To request: email library@energylibrary.org.nz Ref: **1011-DR**)

Importance of finding and defining energy conservation measures. Vidmar, Kevin. *Strategic Planning for Energy & the Environment*; Fall 2010, Vol. 30 (2), p.45-63
This article explains the difference between energy conservation and efficiency, and how conservation can be managed in an industrial setting.
(To request: email library@energylibrary.org.nz Ref: **1011-Conservation**)

Future fuels for internal combustion engines. Demirbas, A. *Energy Sources Part A: Recovery, Utilization & Environmental Effects*; Sep 2010, Vol. 32 (14), p.1273-1281
(To request: email library@energylibrary.org.nz Ref: **1011-Fuel**)

A new family of oil spill dispersants: Part 1. The effect of structural variation on the oil spill dispersant efficiency. Mahmoud, S. A.; Abd El-Rahman, T. M. *Petroleum Science & Technology*; Sep 2010, Vol. 28 (14), p.1394-1406
(To request: email library@energylibrary.org.nz Ref: **1011-Spill**)

From renewable to alternative: Waste coal, the Pennsylvania alternative energy portfolio standard, and public legitimacy. Glenna, L. L.; Thomas, R. R. *Society & Natural Resources*; Sep 2010, Vol. 23 (9), p.856-871
(To request: email library@energylibrary.org.nz Ref: **1011-Coal**)

Promising outlook for products from gas-to-liquids technology. Rahmim, Iraj Isaac. *Natural Gas & Electricity*; Sep 2010, Vol. 27 (2), p.8-14
(To request: email library@energylibrary.org.nz Ref: **1011-GTL**)

Climate change policy and its effect on market power in the gas market. Newbery, David M. *Journal of the European Economic Association*; Jun 2008, Vol. 6 (4), p.727-751
(To request: email library@energylibrary.org.nz Ref: **1011-Market**)

Reciprocal energy-switching options. Roger Adkins; Dean Paxson. *The Journal of Energy Markets*; Spring 2011, Vol. 4 (1), p.91-VI (31 pages)
(To request: email library@energylibrary.org.nz Ref: **1011-Energy**)

Enhancing the benefits of local content: Integrating social and economic impact assessment into procurement strategies. Esteves, A. M.; Barclay, M.-A. *Impact Assessment & Project Appraisal*; Sep 2011, Vol. 29 (3), p.205-215
One of the most encouraging recent developments in supply chain management has been the concerted effort to incorporate local small-to-medium enterprises (SMEs) into the supply chains of multi-national corporations. However, local SME procurement can lead to adverse social impacts. This paper demonstrates how the integration of social and economic impact assessment (SEIA) into sourcing strategy can be an effective tool to enhance the benefits associated with projects to local communities. Drawing on research into the mining, oil and gas sectors, the contribution of this paper is the application of impact assessment methodologies to local procurement. The paper recommends the development of a local procurement strategy and offers a step-by-step process for applying a Local Procurement Social Risks and Opportunities Assessment to local procurement planning.
(To request: email library@energylibrary.org.nz Ref: **1011-Impact**)

Implementing an integrated asset management system. M. Chandler; John Johnson. *Asset Management and Maintenance Journal (AMMJ)*; Vol. 23 (4), p.46-47
An article about the implementation of an asset management system at Energy Australia.
(To request: email library@energylibrary.org.nz Ref: **1011-Asset**)

Reclamation of transformer oil. *Transmission & Distribution*; Jun/Jul 2011, p.58-60
(To request: email library@energylibrary.org.nz Ref: **1011-Oil**)

Review of corporate environmental indicators. Marta Herva et al. *Journal of Cleaner Production*; Vol. 19 (15), Oct 2011, p.1687-1699

This paper reviews a series of environmental indicators developed in the last years that were found suitable to be applied at corporate level for the evaluation of production processes and products. The indicators reviewed in this paper were classified into four main groups: 1) Indicators of Energy and Material Flows; 2) Indicators with a Territorial Dimension; 3) Indicators of Life-Cycle Assessment; 4) Indicators of Environmental Risk Assessment. Integrative and single index indicators such as the ecological footprint or carbon footprint were found as the most appealing for enterprises, although there is a need to advance in the field to combine the simplicity required at corporate level for tracking and reporting environmental data, and the scientific rigor and transparency necessary to make the scores reliable. Hence, for each of the indicators revised it was stated what they do and do not measure so that misleading information was not used for decision making at corporate level.

(To request: email library@energylibrary.org.nz Ref: **1011-Corporate**)

Improving the reliability of distribution networks based on investment scenarios using reference networks. Kawahara, Koji. *Electrical Engineering in Japan*; Oct 2010, Vol. 173 (1), p.24-31

(To request: email library@energylibrary.org.nz Ref: **1011-Investment**)

A probabilistic protection against thermal overloads of transmission lines. J. S. A. Carneiro; L. Ferrarini. *Electric Power Systems Research*; Vol. 81 (10), Oct 2011, p.1874-1880

(To request: email library@energylibrary.org.nz Ref: **1011-Lines**)

Adaptive scheme for minimal load shedding utilizing synchrophasor measurements to ensure frequency and voltage stability. Seethalekshmi, K. et al. *Electric Power Components & Systems*, Aug 2010, Vol. 38 Issue 11, p1211-1227

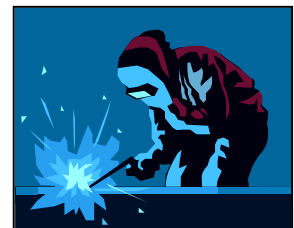
(To request: email library@energylibrary.org.nz Ref: **1011-Load**)

Using the hot brine hardenability test for the qualification of in-service welding procedures for repairing natural gas transmission pipelines. Zecheru, G. et al. *Petroleum - Gas University of Ploiesti Bulletin, Technical Series*; 2010, Vol. 62 (4A), p.47-52

(To request: email library@energylibrary.org.nz Ref: **1011-Pipeline**)

Weld repair procedures of aged components in the refineries and power plants: Kuwait and Australia. Almazrouee, A. et al. *Materials at High Temperatures*; Sep 2010, Vol. 27 (3), p.211-217

(To request: email library@energylibrary.org.nz Ref: **1011-Weld**)



Failure analysis: Unusual occurrence causes leak in high-pressure underground gas pipeline. A. Saatchi et al. *Materials Performance*; Mar 2006, Vol. 45 (3), p.52-55

(To request: email library@energylibrary.org.nz Ref: **1011-Failure**)

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Special Topic: District Heating

Metamorphoses of cogeneration-based district heating in Romania: A case study. F. Iacobescu; V. Badescu. *Energy Policy*; Vol. 39 (1), Jan 2011, p.269-280
(To request: email library@energylibrary.org.nz Ref: **1011-Topic1**)

Techno-economic analysis of renewable energy source options for a district heating project. Ghafghazi, S. et al. *International Journal of Energy Research*; Oct 2010, Vol. 34 (12), p.1109-1120
(To request: email library@energylibrary.org.nz Ref: **1011-Topic2**)

A district heating system based on absorption heat exchange with CHP systems. L. Fu et al. *Frontiers of Energy and Power Engineering in China*; Mar 2010, Vol. 4 (1), p.77-83
(To request: email library@energylibrary.org.nz Ref: **1011-Topic3**)

Utilizing district energy system as a cost-effective measure in meeting UK domestic 'zero carbon' targets. Chow, Yee. *International Journal of Low Carbon Technologies*; Sep 2009, Vol. 4 (3), p.169-174
(To request: email library@energylibrary.org.nz Ref: **1011-Topic4**)

Optimal size and layout planning for district heating and cooling networks with distributed generation options. Damiana Chinese. *International Journal of Energy Sector Management*; 2008, Vol. 2 (3), p.385-419
(To request: email library@energylibrary.org.nz Ref: **1011-Topic5**)

A key review on performance improvement aspects of geothermal district heating systems and applications. Leyla Ozgener et al. *Renewable and Sustainable Energy Reviews*; Vol. 11 (8), Oct 2007, p.1675-1697
(To request: email library@energylibrary.org.nz Ref: **1011-Topic6**)

Internalising external costs of electricity and heat production in a municipal energy system. K. Holmgren; S. Amiri. *Energy Policy*; Vol. 35 (10), Oct 2007, p.5242-5253
(To request: email library@energylibrary.org.nz Ref: **1011-Topic7**)

Life cycle assessment of fuels for district heating: A comparison of waste incineration, biomass- and natural gas combustion. O. Eriksson et al. *Energy Policy*; Vol. 35 (2), Feb 2007, p.1346-1362
(To request: email library@energylibrary.org.nz Ref: **1011-Topic8**)

Thermodynamic analysis of a ground-source heat pump system for district heating. Hepbasli, A. *International Journal of Energy Research*; 6/10/2005, Vol. 29 (7), p.671-687
(To request: email library@energylibrary.org.nz Ref: **1011-Topic9**)

Life cycle assessment of the district heat distribution system - Part 2: Network construction. M. Fröling; M. Svanström. *The International Journal of Life Cycle Assessment*; Nov 2005, Vol. 10 (6), p.425-435
(To request: email library@energylibrary.org.nz Ref: **1011-Topic10**)

Energy and environmental conservation through district heating. N. Hu et al. *Energy Engineering*; 2005, Vol. 102 (1), p.10-20
(To request: email library@energylibrary.org.nz Ref: **1011-Topic11**)

A model for predicting the yearly load in district heating systems. G. R. Jonsson. *Proceedings of the Institution of Mechanical Engineers.: Part A Journal of Power and Energy*; 2002, Vol. 216 (3), p.277 (5 pp.)
(To request: email library@energylibrary.org.nz Ref: **1011-Topic12**)

Report

Fuel retailing industry profile: Asia-Pacific. Jun 2011.
This 45-page report by Datamonitor profiles four companies: BP PLC; Royal Dutch Shell PLC; Nippon Oil Corp.; Exxon Mobil Corp. Contents include: Market overview; Market value; Market segmentation; Competitive landscape; Market forecasts; Demographics; Further reading.
(To request: email library@energylibrary.org.nz Ref: **1011-Report**)

Featured Energy Event

Lunchtime Seminar with Hon. Hekia Parata, Acting Minister of Energy & Resources.
EFNZ lunchtime seminar Mon 7th November, 12.15pm, Wellington. More information and a registration form available on EFNZ [website](#).

Please [email](#) us if you would like your event to be featured in the Energy Update.

Energy on the Web

New Zealand

Maui pipeline Critical Contingency ends - Vector [news](#).

Auditor-General's overview: Transpower New Zealand Limited: Managing risks to transmission assets – Office of the Auditor General [report](#).

Climate Change Atlas for New Zealand – This new Niwa [resource](#) is a world first.

Infrastructure problems in New Zealand – this Sept 2011 NZ Listener article is [online](#).

Electricity distribution business asset management plan rating comparison October 2011 - Commerce Commission [review](#).

NZ ETS Pre-1990 Forestry Allocations – Government [publication](#).

Parliamentary Commissioner for the Environment annual report – PCE [publication](#).



Peoples' perceptions of the state of the New Zealand environment - Lincoln University [survey](#).

The Main Report "Sacred Cows" survey – Pre-election [survey](#) results.

Wellington towards 2040: Smart capital - Wellington City Council [website](#).

Effectiveness of the What's My Number switching campaign – Electricity Authority [survey](#) results.

Forecast uptake and economic evaluation of electric vehicles in Victoria – AECOM [report](#).

Proposed minimum energy performance standards and labelling for computers and monitors – EECA [document](#).

BRANZ Research and Information Agenda 2012 – BRANZ [document](#).

Low enthalpy geothermal energy: Technological economics review - CRL Energy Ltd / East Harbour Energy Ltd [report](#) for GNS Science.

Geothermal energy: It's amazing what you can do directly - presentations from this NZGA seminar held on 12th Oct are now available [online](#).

Proceedings of the 2011 Pacific Conference on Earthquake Engineering (PCEE), held at The University of Auckland from 14 to 16 April. Examples of conference papers now available on the NZSEE [website](#):

- Precis of the new National Seismic Hazard Model for New Zealand.
- Modelling strong ground motions for subduction events in the Wellington Region.
- Comparison of main shock and aftershock fragility curves developed for New Zealand and US buildings.

Royal Commission of Inquiry into Building Failure Caused by the Canterbury Earthquakes - Interim [report](#).

Electricity Act 1992, Electricity (Safety) Regulations 2010, Compliance/Enforcement, and Standards - New [video](#) resource available from Standards New Zealand.

Wiring rules AS/NZS 3000 – New Zealand-only Amendment A – [amendment](#) published by Standards New Zealand.

Restructuring – an over-used lever for change in New Zealand’s state sector? - IPS working [paper](#).

Skills and people capability in the future state: Needs, barriers and opportunities – IPS working [paper](#).

Lemon of the month: Go4Green Energy Smart – Consumer NZ energy safety [news](#).

Commercial building energy programme to focus on Christchurch – EECA [news](#).

International



Empowering customer choice in electricity markets – IEA [paper](#).

CO2 emissions from fuel combustion 2011: Highlights - IEA [report](#).

Energy for all: Finance access for the poor – IEA [report](#).

Low carbon growth plan for Gippsland - ClimateWorks Australia [report](#).

National solar jobs census 2011: A review of the U.S. solar workforce - Solar Foundation [report](#).

The business of innovating: Bringing low-carbon solutions to market – Pew Centre on Global Climate Change [report](#).

Renewable electricity in Australia – outcomes and prospects - Energy Users Association of Australia [report](#).

Energy Cities - Energy Cities is the European Association of local authorities inventing their energy future. The website is [here](#).

Annual updates & trends report - Interstate Renewable Energy Council [report](#).

Long-term trend in global CO2 emissions - PBL Netherlands Environmental Assessment Agency [report](#).

Roadmap 2050 - European Climate Foundation online [resource](#).

Approach for reporting on ecosystem services: Incorporating ecosystem services into an organization’s performance disclosure – Global Reporting Initiative (GRI) [report](#).

Hess Corporation 2010 corporate sustainability report – this [report](#) from the large oil company is featured on the Global Reporting Initiative (GRI) website.

2011 Global Hunger Index: The challenge of hunger: Taming price spikes and excessive food price volatility - International Food Policy Research Institute (IFPRI) [report](#).

Twitter users: To see more web resources we spot throughout the month click [here](#).

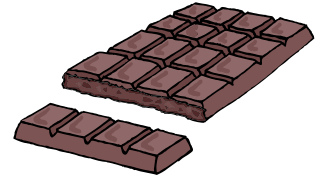
Fuel for Thought (Energy chocolate competition)

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

What are the electricity pylons doing in [this](#) animation?

(If the above link doesn't work then try [this](#) alternative).

Draw closes 4pm Fri 18th November. Congratulations to Malcolm, who won last month's draw.



Take a look at...

The Engineering Update: View previous issues [here](#) and [request](#) to receive it by email (monthly). The special topic for the September issue was Marine Energy.

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