

Energy Update

Nov/Dec 2008

Welcome to our final Energy Update for 2008. We are open for requests until 4:30pm on Friday 19th Dec and we will reopen on Mon 5th Jan. We hope you have a safe and happy holiday season.

There is no charge for us to supply items from the Update to our Open Access library members. To request an item just [email us](#) the title or reference code. Non-members can access items from their institutional or public library via inter-library loan.

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New Items for Loan

Solar power in building design: the engineer's complete design resource. Gevorkian, Peter. New York: McGraw Hill, 2008

This is a complete guide to designing, implementing, and auditing energy-efficient, cost-effective solar power systems for residential, commercial, and industrial buildings. The author provides plenty of case studies and illustrations and also covers new solar technologies; design implementation techniques; energy conservation; the economics of solar power systems and passive solar heating power.

(To borrow this book email library@energylibrary.org.nz Ref: **1108-Loan1**)

Promoting energy efficiency investments: case studies in the residential sector. T'Serclaes, Philippine de and Devernois, Nils. International Energy Agency. Paris : OECD/IEA and AFD, 2008

(To borrow this book email library@energylibrary.org.nz Ref: **1108-Loan3**)

AS/NZS 3080: 1996. Telecommunications installations: Integrated telecommunications cabling for commercial premises.

(To borrow this standard email library@energylibrary.org.nz Ref: **1108-Loan4**)

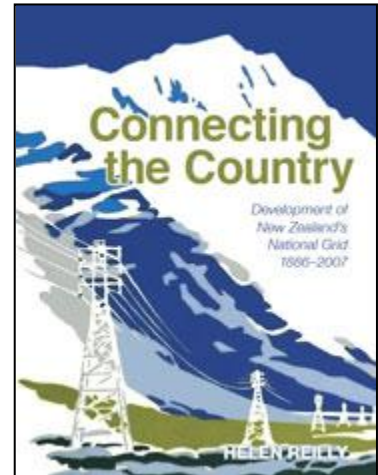
Connecting the country. Helen Reilly. Wellington: Steele Roberts, 2008

Connecting the country: New Zealand's national grid 1886 – 2007 was written by public historian Helen Reilly, and is the culmination of three years' work. It tells the stories of the early engineers, surveyors, linesmen and operators, and describes how their commitment to 'keeping the lights on' is still central to the ethos of those who run the National Grid today.

It will be a must read for new employees starting out in the electricity field and will also bring back memories for those who have spent many years in the industry.

To read more about the book, or order your own copy, go to the book's [website](#). Proceeds from the book sales will go towards restoration of three towers in the Horahora to Waihi transmission line, one of New Zealand's earliest transmission lines.

(To borrow our copy of this book email library@energylibrary.org.nz Ref: **1108-Loan13**)



Electrical power systems quality. Dugan, Roger C. and others. 2nd edition. New York: McGraw-Hill, 2003

A comprehensive reference and textbook on electrical power systems. The authors of this new edition also look at microelectronic devices and the growing stress placed on the power grid.

(To borrow this book email library@energylibrary.org.nz Ref: **1108-Loan2**)

The present: the gift that makes you happy and successful at work and in life.

Johnson, Spencer. Sydney: Doubleday, 2003

An inspirational book by the author of "Who moved my cheese".

(To borrow this book email library@energylibrary.org.nz Ref: **1108-Loan6**)

Special Journal Issues

Capacity mechanisms in imperfect electricity markets. (*Utilities Policy*; Vol 16 No. 3, Sept 2008). There are 8 articles in this special issue, including:

- Electricity and long-term capacity adequacy: The quest for regulatory mechanism compatible with electricity market
- The impact of electricity market design upon investment under uncertainty: The effectiveness of capacity mechanisms

(To borrow this whole issue email library@energylibrary.org.nz Ref: **1108-Loan8**)

Future fuels 2008. (21 page *Energy World* supplement). Articles include:

- Fossil fuel ecolabelling proposal
- Supporting road transport biofuel implementation
- Heralding an era of global fuel-on-fuel competition

(To borrow this whole issue email library@energylibrary.org.nz Ref: **1108-Loan9**)

Standards News

Draft DZ4218 Thermal insulation – Housing and small buildings (Previous title: Energy efficiency – small building envelope) is now [available](#) for you to comment on. Closing date for comment on this draft Standard is 2 Feb 2009.

EL-002, joint Australian/New Zealand committee now have [available](#) for public comment 48 draft Standards, and amendments. Dr 08951 has a closing date for comment of 16 Dec 2008, while the other 47 drafts all have a closing date of 16 Jan 2009.

New Management, Marketing and HR Articles

Promoting sustainability through social marketing: Examples from New Zealand. Frame, Bob; Newton, Bronwyn. *International Journal of Consumer Studies*; Nov 2007, Vol 31 (6), p.571-581
(To request: email library@energylibrary.org.nz Ref **1108-Frame**)



How to protect your job in a recession. Banks, J. and Coutu, D. *Harvard Business Review*; Vol 86 (9) Sept 2008 p.113-116

As the economy softens, corporate downsizing appears almost inevitable. Don't panic yet, though. While layoff decisions might seem beyond your control, there's plenty you can do to make sure you retain your job. In this article, Banks, a former HR executive at Chase Manhattan and FleetBoston Financial, and Coutu, an HBR senior editor and former affiliate scholar at the Boston Psychoanalytic Society and Institute, describe how to improve your chances of survival.

(To request: email library@energylibrary.org.nz Ref **1108-Banks**)

The aligned balanced scorecard: an improved tool for building high performance organizations. K.R. Thompson, N.J. Mathys. *Organizational Dynamics*; Vol 37 (4), Oct-Dec 2008, p.378-393

(To request: email library@energylibrary.org.nz Ref **1108-Thompson**)

Jobs requiring a capacity for engineering systems thinking (CEST): Selection using an interest inventory. Frank, Moti and others. *Project Management Journal*; Sep 2007, Vol 38 (3), p.36-44

(To request: email library@energylibrary.org.nz Ref **1108-Frank**)

The five stages of workplace "Tribes": Two researchers say that your tribe is more important than anything else at work. Here's how to harness the power of that insight. Robison, Jennifer. *Gallup Management Journal Online*; 5/8/2008, p.1-5

(To request: email library@energylibrary.org.nz Ref **1108-Robison**)

Thinking and interacting like a leader: The TILL system for effective interpersonal communication. Downing, Joe. *Journal of Business Communication*; Oct 2008, Vol 45 (4), p.503-507

(To request: email library@energylibrary.org.nz Ref **1108-Downing**)

What makes for CRM system success - or failure? Foss, Bryan and others. *Journal of Database Marketing & Customer Strategy Management*, Mar 2008, Vol 15 (2), p.68-78

The purpose of this study was to uncover the reasons why customer relationship management (CRM) projects so often fail.

(To request: email library@energylibrary.org.nz Ref **1108-Foss**)

Working with gas cylinders. Constable, Ian. *Occupational Safety and Health (RoSPA)*; Aug 2008 Vol 38 (8), p.39-41

(To request: email library@energylibrary.org.nz Ref **1108-Constable**)

New Energy and Environment Articles

She is electric, can I be electric too? Hein, Treena. *Engineering World (Institution of Engineers Australia)*; Jun/Jul 2008 Vol 18 (3), p.26-31

Canadian motor company ZENN has been making the most of new power storage technologies in its development of a promising low-speed electric vehicle.

(To request: email library@energylibrary.org.nz Ref **1108-Hein**)



Plug-in hybrids on the horizon: building a business case – This Spring 2008 *EPRI Journal* Article is available [online](#).

Government failings on energy efficiency and fuel poverty. Warren, Andrew. *Energy World (Energy Institute)*; Sep 2008 363, p.20-22

Director of the Association for the Conservation of Energy, Andrew Warren, delivered this year's Melchett Lecture, as part of the Energy Institute's Energy in Transition event in July, having been awarded the 72nd Melchett Award. Here's what he had to say about organising for energy efficiency and the Government's currently failing fuel poverty strategy.

(To request: email library@energylibrary.org.nz Ref **1108-Warren**)

Review and analysis of an energy efficiency incentive program for commercial buildings. James Mathias and others. *Energy Engineering*; Vol 105 (6) 2008, p.58-66,69-80

(To request: email library@energylibrary.org.nz Ref **1108-Mathias**)

Integration and communication as central issues in Dutch negotiated agreements on industrial energy efficiency. Bressers, Hans and others. *European Environment: The Journal of European Environmental Policy*; Jul 2007, Vol 17 (4), p.215-230

(To request: email library@energylibrary.org.nz Ref **1108-Hans**)

Deliberate futures: precaution and progress in social choice of sustainable technology. Stirling, Andy. *Sustainable Development*; Sep/Oct 2007, Vol 15 (5), p.286-295
(To request: email library@energylibrary.org.nz Ref **1108-Stirling**)

A real options evaluation model for the diffusion prospects of new renewable power generation technologies. Gürkan Kumbaroglu and others. *Energy Economics*; July 2008 Vol 30 (4), p.1882-1908

This study presents a policy planning model that integrates learning curve information on renewable power generation technologies into a dynamic programming formulation featuring real options analysis.

(To request: email library@energylibrary.org.nz Ref **1108-Gurkan**)

Renewable energy activities in the Gulf Co-operation Countries (GCC). Alnaser, W. E. In *Renewable energy 2007 / 2008* (p.81-86,89), London: Sovereign

This article describes renewable energy developments in Bahrain, Kuwait, Oman, the United Arab Emirates, Qatar and Saudi Arabia.

(To request: email library@energylibrary.org.nz Ref **1108-Gulf**)

Thermomechanical exergy and thermoeconomic analysis of geothermal district heating systems. L. Ozgener, O. Ozgener. *Proceedings of the Institution of Mechanical Engineers: Part A: Journal of Power and Energy*; Mar 2008 Vol 222 (A2), p.167-177

The current paper presents the thermomechanical exergy and thermoeconomic analysis of geothermal district heating systems (GDHSs) in Turkey. The case studies cover the actual system data taken from the systems in Afyon, Gonen, and Salihli GDHSs, Turkey. General energy and exergy analysis of the GDHSs are introduced. Then the analysis applied to these GDHSs using actual thermodynamic data for their performance evaluations in terms of energy and exergy efficiencies are presented. Besides, thermoeconomic evaluations of GDHSs are given in tables.

(To request: email library@energylibrary.org.nz Ref **1108-Oz**)

Phasing in wind-power in Norway: Network congestion and crowding-out of hydropower. Finn R. Førsund and others. *Energy Policy*; Vol 36 (9), Sept 2008, p.3514-3520

The objective of this paper is to investigate the effects on utilisation of existing hydropower in a region of investing in significant wind-power in the region within the present network.

(To request: email library@energylibrary.org.nz Ref **1108-Finn**)

The Emerald Lakes: large offshore storage basins for renewable energy. Lemperiere, F. *International Journal on Hydropower & Dams*; Vol 15 (1) 2008, p.97-101

(To request: email library@energylibrary.org.nz Ref **1108-Lemp**)

Pellet trading goes international. Hilgers, Claudia. *Sun & Wind Energy*; 3/2008, p.220-223

This article describes the latest developments in the compressed wood waste market.

(To request: email library@energylibrary.org.nz Ref **1108-Hilgers**)

Realising the coal seam dream. Jahanshahi, Maryam. *Engineering World (Institution of Engineers Australia)*; Oct/Nov 2008 Vol 18 (5), p.13-20
(To request: email library@energylibrary.org.nz Ref **1108-Maryam**)

Competition in electricity distribution. R. Saplacan. *Utilities Policy*; Vol 16 (4), Dec 2008, p.231-237

The traditional view of electricity distribution is that it is a natural monopoly. Few authors have explored the question as to whether electricity distributors truly are natural monopolies or not, while observation of the current industrial practice tends to suggest that a "market" for distribution activities does actually exist. This is a paradox for a natural monopoly. Our explanation is that monopoly characteristics well characterise the network infrastructure, but not the network operation service.

(To request: email library@energylibrary.org.nz Ref **1108-Saplacan**)

Learning contested lessons: Participation equity and electric utility regulation. Laird, Frank N. *Review of Policy Research*; Sep 2008, Vol 25 (5), p.429-448
(To request: email library@energylibrary.org.nz Ref **1108-Laird**)

Societal benefits of smart metering investments. Bernard Neenan; Ross C. Hemphill. *The Electricity Journal*; Vol 21 (8), Oct 2008, p.32-45

Implementing smart metering involves complex interactions that may generate many new sources of benefits. It is a potentially powerful enabler, one with considerable – but still speculative – potential that is highly dependent on how the technology is utilized by utilities and supported by their regulators.

(To request: email library@energylibrary.org.nz Ref **1108-Ross**)

Power transmission investment analysis: a new financial evaluation framework for South Africa. Silky Ntombifuthi Maboke; Michael Ogembo Kachienga. *The Electricity Journal*; Vol 21 (4), May 2008, p.58-70

A proposed framework for power transmission expansion projects in South Africa incorporates the modeling of project options and uncertainties, Monte Carlo simulations, real option analysis, and decision analysis, based on a foundation of strategic analysis.

(To request: email library@energylibrary.org.nz Ref **1108-Silky**)

Managing carbon data accounting and reporting. Patel, Hitesh. *Chartered Accountants Journal*; Oct 2008, Vol 87 (9), p.33-34

(To request: email library@energylibrary.org.nz Ref **1108-Patel**)



Impacts of market-based environmental and generation policy on scrubber electricity usage. Allen Bellas and Ian Lange. *The Energy Journal*; 2008. Vol 29 (2), p.151-164

(To request: email library@energylibrary.org.nz Ref **1108-Bellas**)

Comparative energy, environmental, and economic analysis of traditional and e-commerce DVD Rental Networks. Sivaraman, Deepak and others. *Journal of Industrial Ecology*; Summer 2007, Vol 11 (3), p.77-91

(To request: email library@energylibrary.org.nz Ref **1108-Deepak**)

Resource flow analysis for sustainable construction: metrics for an integrated supply chain approach. Ravetz, J. *Institution of Civil Engineers. Proceedings - Waste and Resource Management*; May 2008, Vol 161 (WR2), p.51-66

(To request: email library@energylibrary.org.nz Ref **1108-Ravetz**)

Energy security and climate change protection: Complementarity or tradeoff? Stephen P.A. Brown, Hillard G. Huntington. *Energy Policy*; Vol 36 (9), Sept 2008, p.3510-3513

(To request: email library@energylibrary.org.nz Ref **1108-Hillard**)

Beating boiler failure. Reid, Chris. *Plant Engineer*; Nov/Dec 2007, p.28-29

Discusses the causes of steam boiler failures.

(To request: email library@energylibrary.org.nz Ref **1108-Reid**)

Regenerating a powerhouse. Morris, Ray; Dowling, Peter. *E.NZ magazine*; Mar/Apr 2008 Vol 9 (2). p.14-16,18

Despite high demand for new generation sources such as wind, wave and solar power, there is plenty of potential for refurbishing and expanding existing hydro schemes. The authors describe how Monowai Power Station's generating plant and control system were upgraded for the 21st century.

(To request: email library@energylibrary.org.nz Ref **1108-Ray**)

An exact piecewise method for fault studies in interconnected networks. Amir Kalantari and Shahram Montaser Kouhsari. *International Journal of Electrical Power & Energy Systems*; Vol 30 (3), Mar 2008, p.216-225

Ever-increasing size and complexity of electrical networks call for new computational tools to cope with serious challenges such as information handling and security, massive data processing, real-time analysis and control, etc. In particular, this paper tries to deal with these challenges in the field of fault studies.

(To request: email library@energylibrary.org.nz Ref **1108-Amir**)

Optical strain monitoring techniques for life assessment of components in power generation plants. A. Morris and others. *Proceedings of the Institution of Mechanical Engineers: Part A: Journal of Power and Energy*; Dec 2007, Vol 221 (A8); p.1141-1152

This paper presents the ongoing development of a combination of two methods for monitoring creep strain in mechanical components of electrical power generation plants.

(To request: email library@energylibrary.org.nz Ref **1108-Morris**)

An ultrasonic on-line test method for detecting remotely and automatically energised porcelain post insulators in high-voltage substations. Yang, E. and others. *Insight: Non-Destructive Testing and Condition Monitoring*; 50 (4) 2008, p.209-215
(To request: email library@energylibrary.org.nz Ref **1108-Yang**)

Forecasting dissolved gases content in power transformer oil based on support vector machine with genetic algorithm. Sheng-Wei Fei and Yu Sun. *Electric Power Systems Research*; Vol 78, (3), Mar 2008, p.507-514
Forecasting of dissolved gases content in power transformer oil is very significant to detect incipient failures of transformer early and ensure hassle free operation of entire power system. Forecasting of dissolved gases content in power transformer oil is a complicated problem due to its nonlinearity and the small quantity of training data. Support vector machine (SVM) has been successfully employed to solve regression problem of nonlinearity and small sample. However, SVM has rarely been applied to forecast dissolved gases content in power transformer oil. In this study, support vector machine with genetic algorithm (SVMG) is proposed to forecast dissolved gases content in power transformer oil, among which genetic algorithm (GA) is used to determine free parameters of support vector machine.
(To request: email library@energylibrary.org.nz Ref **1108-Fei**)

Security-constrained resource planning in electricity markets. Jae Hyung Roh and others. *IEEE Transactions on Power Systems*; May 2007 Vol 22 (2), p.812-820
(To request: email library@energylibrary.org.nz Ref **1108-Jae**)

Discussion on measures against lightning breakage of covered conductors on distribution lines. Jinliang He and others. *IEEE Transactions on Power Delivery*; April 2008 Vol 23 (2), p.693-702
(To request: email library@energylibrary.org.nz Ref **1108-He**)

A step ahead of run-to-failure - This Oct 2008 *Transmission & Distribution World* article is [online](#).

Right-of-way acquisition – This Oct 2008 *Transmission & Distribution World* article is [online](#).

Feed-in tariffs for micro-cogeneration: How to maximize carbon benefits – This *Cogeneration & On-Site Power Production*; Sep/Oct 2008 article is [online](#).

The coalbed methane transport model and its application in the presence of matrix shrinkage – This Jul 2008 *Science in China Series E: Technological Sciences* article is [online](#).

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Special Topic: Emissions Trading / Carbon Taxes

There are so many interesting articles on this topic that we've created a separate document for it. You can view this [here](#) or via the [newsletter page](#) on our website.

Special topics from 2007 and 2008 Energy Updates and our IPENZ Engineering Updates.

Clicking on the topic will open the PDF of the Update containing that topic. You can access all the back issues of our updates (Energy, Engineering and Bioenergy) on the [newsletter page](#) of our website.

Energy Updates 2008:

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[E-waste/Electronic Waste](#)
[Green building](#)
[Fuel cells](#)
[Tidal and ocean power](#)

Reports

Fuel Retailing Industry Profile: Asia-Pacific. Aug 2008. This 29-page Datamonitor report presents a profile of the Fuel Retailing industry in Asia-Pacific.
(To request: email library@energylibrary.org.nz Ref **1108-Profile1**)

Fuel Retailing Industry Profile: Global. Aug 2008. This 30-page Datamonitor report presents a profile of the Fuel Retailing industry in the World.
(To request: email library@energylibrary.org.nz Ref **1108-Profile2**)

Energy Equipment & Services Industry Profile: Global. Apr 2008. This 26-page Datamonitor report presents a profile of the Energy Equipment & Services industry.
(To request: email library@energylibrary.org.nz Ref **1108-Profile3**)

Methane from animal waste management systems - Oct 2008 MWH [report](#) commissioned by the Ministry of Agriculture and Forestry (MAF).

Smart metering in New Zealand - Jun 2008 Concept Consulting [report](#) commissioned by the Parliamentary Commissioner for the Environment.

Reforming energy subsidies: Opportunities to contribute to the climate change agenda - 2008 UN Environment Programme (UNEP) [report](#).

Oil market report - International Energy Agency [website](#).

The true cost of coal - 2008 Greenpeace [report](#).

Global trends 2025: A transformed world - Nov 2008 National Intelligence Council [report](#).

Special report on the future of energy. This June 2008 *Economist* report is [online](#).

UK will face peak oil crisis within five years, report warns - Oct Guardian [news](#). You can read the report [here](#).

Energy on the Web

New Zealand

Advanced Metering Solutions conference presentations - Available on the Electricity Commission [website](#).

Consultant suggests lines firms for fibre - 3 Nov 2008 [news](#).

Electricity lines businesses: Information disclosure - Commerce Commission [website](#).

EMS launches NZ electricity market information website - [website](#).

Competition policy versus regulation in electricity systems - determining the boundary - ISCR presentation [slides](#).

David Blume: running on ethanol - 11 Oct Radio New Zealand National [audio file](#).

Should we pay more for clean energy? 10 Dec 2008 TV3 ASB Business [video](#) of an interview with Benjamin Sovacool, alternative energy expert, who is in New Zealand for the Sustainable Electricity Association's conference (11 and 12 Dec).

Designing energy efficiency projects for real impacts - [video](#) from 9 Oct SEF seminar.

Wairakei celebrates 50 years of geothermal power generation - 30 Nov Radio New Zealand National [audio](#) file.

Commercial forestry and LULUCF for a 'carbon neutral New Zealand' - the 'leaky bucket - 2008 Institute of Policy Studies [note](#) by Peter Read.



International

The **IEA World Energy Outlook 2008** has now been released. We don't yet have a copy in the library but you can glean a lot of information about it from the following 2 links:

- IEA Chief Economist Fatih Birol's [speech](#) at the launch
- World Energy Outlook 2008 [fact sheet](#): Global energy trends

Arrangements for responding in the event that a network company experiences deteriorating financial health – Ofgem decision [document](#).

Barack Obama and Joe Biden: New energy for America - [factsheet](#).

Scientists say a rock can soak up carbon dioxide – 6 Nov 2008 [news](#).

Peak energy body releases discussion paper on embedded generation, national electricity grid and climate change issues – 18 Nov 2008 Energy Networks Association (ENA) [media release](#).

New lithium-ion battery recharges to 90% capacity in 5 minutes - 24 Nov [blog posting](#).

Bolivia holds key to electric car future – 9 Nov BBC [news](#) about the problem of increased demand for lithium for electric cars.

A 'Green New Deal' can save the world's economy, says UN - 12 Oct 2008 [news](#).

Boulder, Colo.: America's first 'smart grid city' - 15 Nov 2008 [news](#).

Coating helps solar panels soak up more sun - Nov 4 [news](#).

After the credit crunch, the oil crunch - Nov 12 *Guardian* [news](#).

Carbon Offset Watch – new Australian [website](#).

Conferences and Events

Evaluating Tax Rebates for Hybrid Vehicles in Canada. Wellington, 17 Dec 2008. More details [here](#).

The Roles of the Electricity Commission (Energy Federation Lunchtime Seminar), Wellington, 17 Dec 2008. More details [here](#).

Australasian Oil and Gas 2009 Conference and Exhibition. Perth, 17-19 Feb 2009. More details [here](#).

11th Annual National Power New Zealand conference. Auckland, 23-27 Feb 2009. More details [here](#).

Commerce Amendment Bill 2008 Impact on Electricity Lines Businesses. Wellington, 27 Feb 2009. More details [here](#).

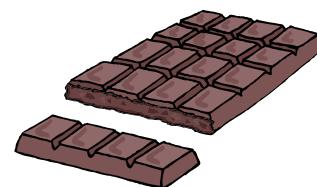
Reviewing Emissions Trading & Climate Change Policy Summit. Wellington, 25-26 Mar 2009. More details [here](#).

Fuel for Thought

Heartbeats may power future pacemakers. (Reuters, 11 Nov 2008). Researchers have successfully tested a generator that helps the heart produce more than enough energy with each beat to pump blood to power pacemakers. Read the news article [here](#).

To really get your heart pumping enter **this month's competition to win a King-size block of Cadbury Energy chocolate:**

As we approach the end of 2008, we'd love to hear how you found our services this year. So, to automatically go into the draw, just send us a brief comment or suggestion about our services via our [feedback](#) form before 4pm Fri 19th Dec 2008.



Other Services

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