

Energy Update

May 2010

Welcome to the latest issue of the Energy Update.

This month we are pleased to announce the publication of the inaugural **EIANZ Environment Update**, a new service resulting from a partnership with the New Zealand chapter of the Environment Institute of Australia and New Zealand (EIANZ).

The EIANZ Environment Update is compiled by Energy Library and is designed to help support the work of environmental practitioners. It will highlight recent articles on environmental issues, developments, best practice, research studies, etc. All the articles are in our collection. Read more [here](#) (includes a link to the Update).



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Kat McAra, Current Awareness Advisor

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New Items for Loan

Competitive electricity markets: Design, implementation, performance. Sioshansi, Fereidoon P. Amsterdam: Elsevier, 2008

This is a very useful follow up to "Electricity Market Reform: An International Perspective" by the same authoritative editor.

(To borrow this book email library@energylibrary.org.nz Ref: **0510-Loan1**)

Towers and lines. Grid Heritage. Wellington: Transpower, 2009

This 3-DVD volume contains various videos covering transmission lines and towers between 1970 and 2003.

(To borrow this item email library@energylibrary.org.nz Ref: **0510-Loan2**)

Power stations. Grid Heritage. Wellington: Transpower, 2009

This 2-DVD volume covers power stations set up from 1950 to 1995: Mangakino; Whakamaru; Ohaaki; Pure Brilliance; Waitaki-Aviemore-Benmore Spilling; Waitaki 220kV Interconnection Project

(To borrow this item email library@energylibrary.org.nz Ref: **0510-Loan3**)

Project Enterprise. Grid Heritage. Wellington: Transpower, 2009

Project Enterprise was initiated to develop the processes required for Grid Operating Services to use with the introduction of the Wholesale Electricity Market from 1 October 1996. This 2-DVD volume contains presentations made to the Project Enterprise Steering Committee (PEST) by four of the Process re-engineering Teams: RTGP - Real Time Grid Processes; STGP - Study Time Grid Processes; DET - Dispatch Enterprise Team; SET - Security Enterprise Team

(To borrow this item email library@energylibrary.org.nz Ref: **0510-Loan4**)

When things go wrong. Grid Heritage. Wellington: Transpower, 2009

This 1-DVD volume contains 2 videos. The first is a home-made video showing the effects of fault current. The second shows the damage to Edgumbe substation after the 1998 earthquake.

(To borrow this item email library@energylibrary.org.nz Ref: **0510-Loan5**)

Marketing. Grid Heritage. Wellington: Transpower, 2010

This 2-DVD volume contains various videos covering promotions or marketing. These were produced from 1982-2002: Islington Substation Open Day; Switched on; ECNZ Video News Link 1; ECNZ Video News Link 2

(To borrow this item email library@energylibrary.org.nz Ref: **0510-Loan6**)

News. Grid Heritage. Wellington: Transpower, 2009

2 DVDs containing the following news clips: ECNZ Tunnel Borer TV1 and TV3 News + raw footage; Close Up - Global warming; Close up - EMF Health issues; TV One - 400kv 20/10/04; TV One - 400kv 8/11/04; TV One 400kv 9/11/04; Close Up - 400kv 25/02/05; Holmes - EMF 10/03/05; Holmes - 400kv 15/03/05; TV One News 15/03/05

(To borrow this item email library@energylibrary.org.nz Ref: **0510-Loan7**)

The Speed reading book: Read more, learn more, achieve more. Buzan, Tony. Harlow, Essex: BBC, 2010

(To borrow this book email library@energylibrary.org.nz Ref: **0510-Loan8**)

The Memory book: How to remember anything you want. Buzan, Tony. Harlow. Essex: BBC, 2010

This book dismisses the theory that our memory diminishes with age and reveals techniques for improving our memory in order to remember names, dates, numbers, speeches and anything else we want.

(To borrow this book email library@energylibrary.org.nz Ref: **0510-Loan9**)

New Management, Marketing and HR Articles

The sustainability imperative. *Harvard Business Review*; May 2010, Vol. 88 (5), p.42-50
Sustainability is a business "megatrend." By understanding how firms won in prior megatrends, executives can craft the strategies and systems they'll need to gain advantage in this one. Topics in this article include venture investment in clean technology and sustainability programs, externalities that can affect a business' competitiveness, and the shift in consumers' preferences toward efficiency. The five areas where companies must excel in sustainability such as leadership, management integration, and communication are discussed.
(To request: email library@energylibrary.org.nz Ref: **0510-Harvard**)

Building value through sustainable project management offices. Hurt, Mimi; Thomas, Janice L. *Project Management Journal*; Mar 2009, Vol. 40 (1), p.55-72
(To request: email library@energylibrary.org.nz Ref: **0510-Project**)

An approach to the valuation and decision of ERP investment projects based on real options. Wu, F. et al. *Annals of Operations Research*; Apr 2009, Vol. 168 (1), p.181-203
This paper outlines an approach to the valuation and decision of enterprise resources planning (ERP) investment projects based on real options. A case study is included.
(To request: email library@energylibrary.org.nz Ref: **0510-ERP**)

Improve your sales by communicating technology better. *IRHACE Journal: Refrigeration, Heating and Air Conditioning*; Jul/Aug 2009 Vol. 21 (4), p.30-31
How to get your website generating more business.
(To request: email library@energylibrary.org.nz Ref: **0510-Web**)



Lending an ear: Why leaders must learn to listen actively. Hoppe, Michael H. *Leadership in Action*; Sep/Oct 2007, Vol. 27 (4), p.11-14
(To request: email library@energylibrary.org.nz Ref: **0510-Listen**)

Designing email messages for corporate readers: A case study of effective and ineffective rhetorical strategies at a Fortune 100 company. DeKay, Sam H. *Business Communication Quarterly*; Mar 2010, Vol. 73 (1), p.109-119
(To request: email library@energylibrary.org.nz Ref: **0510-Email**)

A model for reprimanding unproductive workplace behaviors. Bell, Reginald L.; Ramdass, Randy. *Supervision*; Mar 2010, Vol. 71 (3), p.3-6
(To request: email library@energylibrary.org.nz Ref: **0510-Model**)

Electric power engineers. Wollenberg, B. *IEEE Power and Energy Magazine*; 7 (4), 2009, p.80,76-78
In this opinion piece the author explains why power engineering has disappeared from many campuses and what should be done about it.
(To request: email library@energylibrary.org.nz Ref: **0510-Education**)

Consulting engineers: Myers-Briggs type and temperament preferences. Culp, Gordon; Smith, Anne. *Leadership & Management in Engineering*; Apr 2009, Vol. 9 (2), p.65-70
Myers-Briggs Type Indicator results from 740 professional employees of consulting engineering firms show that a greater percentage of consulting engineers have a Type preference for Introversion over Extraversion, Intuition over Sensing, Thinking over Feeling, and Judging over Perceiving than the national U.S. population. Substantially more consulting engineers have a Intuition-Thinking temperament than the national U.S. population. The differences in Type and temperament between consulting engineers, their clients, and the public can create communication challenges. The full range of Type and temperament preferences are of value in the diverse mix of work and related interactions with clients and the public inherent in the consulting engineering field. However 96 percent of individuals with Extraversion and Feeling preferences who enroll in engineering transfer to other fields in the first two years of college. Adjusting the first-year curricula so that individuals can see the value of their Feeling and Extraversion preferences in the world of consulting could lead to a more balanced mix of Types and temperaments within the pool of graduate engineers that can be drawn upon by consulting engineering firms.

(To request: email library@energylibrary.org.nz Ref: **0510-Type**)

Business networking can be taught. Byham, W. C. *T+D*; May 2010, Vol. 64 (5), p.64-68
(To request: email library@energylibrary.org.nz Ref: **0510-Train**)

A sinister accident? Parkin, Robyn. *Safeguard*; Jan/Feb 2010 (119), p.16-17
About ten percent of employees are left-handed. What are the health and safety implications of handedness? This article discusses the mismatch when equipment designed for right-handed people is used by left-handed workers.

(To request: email library@energylibrary.org.nz Ref: **0510-Hand**)

ISO 31000 and the Icelandic volcano crisis. In this *Touchstone* [article](#) from Standards New Zealand the standard "Risk Management – Principles and guidelines" is used to analyse the air traffic crisis resulting from the Icelandic volcano eruption. Note that Energy Library holds the 2009 edition of this standard. If you wish to borrow the standard please [email](#) us.

New Energy Articles and Environment Articles

Carbon capture and storage law for New Zealand: A comparative study. Barton, Barry. *New Zealand Journal of Environmental Law*; 2009 Vol. 13, p.1-36

Carbon capture and storage, or geosequestration, is an emerging technique to address climate change by reducing emissions of carbon dioxide. New Zealand law does not presently provide for carbon capture and storage. The Crown Minerals Act 1991 and the Resource Management Act 1991 do not make it possible. Canada and Australia offer useful comparisons, as, to a lesser extent, do the European Union and the United States. The comparisons assist in an analysis of the main issues involved in creating a legal regime for New Zealand: rights to real property, title or permits, relationship with oil and gas operations, regulation, liability, and relationships with other legislation.

(To request: email library@energylibrary.org.nz Ref: **0510-CCS**)

A man on a mission. Palmer, David. *Energy NZ*; Vol. 4 (2), Mar/Apr 2010, p.38-39
The author talks to the CEO of EECA, Mike Underhill. He's a man with a passion for renewable energy - and who's well placed to push its development in New Zealand.
(To request: email library@energylibrary.org.nz Ref: **0510-EECA**)

In defence of cap and trade. Sikorski, T. *Environmental Finance*; Mar 2010 Vol. 11 (5), p.24-25
As the climate change debate intensifies, proponents of cap and trade are on the defensive. But many of the arguments against emissions trading are based on fallacies.
(To request: email library@energylibrary.org.nz Ref: **0510-Cap**)

Learning the hard way? European climate policy after Copenhagen. Haug, Constanze; Berkhout, Frans. *Environment*; May/June 2010, Vol. 52 (3), p.20-27
(To request: email library@energylibrary.org.nz Ref: **0510-Climate**)

The carbon footprint of dairy production systems through partial life cycle assessment. Rotz, C. A. et al. *Journal of Dairy Science*; Mar 2010, Vol. 93 (3), p.1266-1282
(To request: email library@energylibrary.org.nz Ref: **0510-Dairy**)

Energy efficiency technologies for road vehicles. Shigeki Kobayashi et al. *Energy Efficiency*; May 2009, Vol. 2 (2), p.125-137
(To request: email library@energylibrary.org.nz Ref: **0510-Vehicles**)



Energy budgeting and control: A new approach for an industrial plant. V. Cesarotti et al. *International Journal of Energy Sector Management*; 2009, Vol. 3 (2), p.131-156
(To request: email library@energylibrary.org.nz Ref: **0510-Plant**)

Ideal task lighting becomes reality. Wulfinghoff, Donald R. *Energy Engineering*; 2010, Vol. 107 (1), p.51-80
(To request: email library@energylibrary.org.nz Ref: **0510-Light**)

Comparison of energy efficiency incentive programs: Rebates and white certificates. Morghan Transue; Frank A. Felder. *Utilities Policy*; Vol. 18 (2), June 2010, p.103-111
With increased interest in energy efficiency in recent years, energy efficiency portfolio standards (EEPS) have gained popularity in state policymaking. This analysis employed New Jersey specific data to compare two incentive based approaches to EEPS implementation: rebates and white certificates. Quantitative modeling suggests that white certificate approaches that depend on market-clearing prices generate much larger upfront incentive outlays than rebate programs. They do not however increase societal burden. Both programs overcome high upfront efficiency measure costs and both recoup the expenses over the long run. Administration costs and participation rates can affect this dynamic however and require additional research to determine which approaches are most cost effective for various energy efficiency measures.
(To request: email library@energylibrary.org.nz Ref: **0510-Rebates**)

New Zealand HVAC hygiene: A need for best practice guidelines. Summerville, *IRHACE Journal: Refrigeration, Heating and Air Conditioning*; Mar/Apr 2010, Vol. 22 (2), p.22-25,28-29
(To request: email library@energylibrary.org.nz Ref: **0510-HVAC**)

Implication of global warming on air-conditioned office buildings in Australia. Guan, Lisa. *Building Research & Information*; Jan 2009, Vol. 37 (1), p.43-54
(To request: email library@energylibrary.org.nz Ref: **0510-Air**)

Thermoeconomical optimization of number of panes for windows. Söylemez, M. S. *Journal of Energy Engineering*, Mar 2009, Vol. 135 (1), p.21-24
(To request: email library@energylibrary.org.nz Ref: **0510-Windows**)

Clean power in water supply systems as a sustainable solution: From planning to practical implementation. Ramos, H. M. et al. *Water Science & Technology: Water Supply*; 2010, Vol. 10 (1), p.39-49
(To request: email library@energylibrary.org.nz Ref: **0510-Water**)

An alternative hybrid concept combining seawater desalination, solar energy and reverse electro dialysis for a sustainable production of sweet water and electrical energy. Brauns, E. *Desalination & Water Treatment*; Jan 2010, Vol. 13 (1-3), p.53-62
(To request: email library@energylibrary.org.nz Ref: **0510-Solar**)

Warming up? Large-scale solar water heating in North America - May/June 2010
Renewable Energy World magazine online [article](#).

Techno-economic review of existing and new pumped hydro energy storage plant. J.P. Deane et al. *Renewable and Sustainable Energy Reviews*; Volume 14 (4), May 2010, p.293-1302
(To request: email library@energylibrary.org.nz Ref: **0510-Pumped**)

Market offering strategies for hydroelectric generators. Pritchard, G.; Zakeri, G. *Operations Research*; Jul/Aug 2003, Vol. 51 (4), p.602-612
(To request: email library@energylibrary.org.nz Ref: **0510-Hydro**)

Prospects for worldwide biodiesel market development. Balat, M. *Energy Sources Part B: Economics, Planning & Policy*; Jan 2009, Vol. 4 (1), p.48-58
(To request: email library@energylibrary.org.nz Ref: **0510-Biodiesel**)

Progress and recent trends in biogas processing. Demirbas, M. Fatih; Balat, Mehmet. *International Journal of Green Energy*; Mar/Apr 2009, Vol. 6 (2), p.117-142
(To request: email library@energylibrary.org.nz Ref: **0510-Biogas**)

Open-loop groundwater heat pumps development for large buildings: A case study.

Stefano Lo Russo; Massimo Vincenzo Civita. *Geothermics*; Vol. 38 (3), Sept 2009, p.335-345
A study of the feasibility of providing the heating and cooling needs of the new, large commercial building near Turin, Italy, by means of an open-loop indirect groundwater heat pump (GWHP) system is described.

(To request: email library@energylibrary.org.nz Ref: **0510-GWHP**)

Numerical modelling of Alpine deep flow systems: A management and prediction tool for an exploited geothermal reservoir (Lavey-les-Bains, Switzerland).

Romain Sonney; François-David Vuataz. *Hydrogeology Journal*; May 2009. Vol. 17 (3), p.601- 616

(To request: email library@energylibrary.org.nz Ref: **0510-Geothermal**)

Comparison of the effectiveness of geothermal energy utilisation in the case of a power plant with organic Rankine cycle and a hybrid binary plant.

Nowak, Władysław et al. *Archives of Thermodynamics*; 2008, Vol. 29 (4), p.133-140

(To request: email library@energylibrary.org.nz Ref: **0510-Rankine**)

Seeking basic concepts: The sui generis of Joe Aidlin.

Fox Hodgson, Susan. *Geothermal Resources Council Bulletin*; Jan-Feb 2010, Vol. 39 (1), p.3-10

This interesting article about a geothermal pioneer who is now 100 years old is [online](#).

Fundamental surfactant properties of foamers for increasing gas production.

Nguyen, D. T. *Petroleum Science & Technology*; May 2009, Vol. 27 (7), p.733-745

(To request: email library@energylibrary.org.nz Ref: **0510-Gas**)

Using liquefied natural gas cold energy for power generation: Case study for Marmara Ereğlisi receiving terminal.

Ersoy, H. K.; Demirpolat, S. O. *Journal of the Energy Institute*; Mar 2009, Vol. 82 (1), p.11-18

(To request: email library@energylibrary.org.nz Ref: **0510-LNG**)

Smart generation.

D. Robb. *Turbomachinery International*; Jan/Feb 2010, Vol. 51 (1), p.14
Gas turbines will be key players in the grid of the future, which will feature more renewable power and use of information technology.

(To request: email library@energylibrary.org.nz Ref: **0510-Turbines**)

Ghana 130MW combined cycle station to burn light crude oil.

Farmer, Robert. *Gas Turbine World*; Nov - Dec 2009, Vol. 39 (6), p.22-25

(To request: email library@energylibrary.org.nz Ref: **0510-Crude**)



Determination of the local parameters of heat- and mass transfer in deep cooling in a tube bundle of fuel combustion products of thermal power plants.

Baikov, V. et al. *Journal of Engineering Physics & Thermophysics*; Mar 2009, Vol. 82 (2), p.283-290

(To request: email library@energylibrary.org.nz Ref: **0510-Thermal**)

Performance analysis of open cycle gas turbines. Kurt, Hüseyin et al. *International Journal of Energy Research*, Mar 2009, Vol. 33 (3), p.285-294
(To request: email library@energylibrary.org.nz Ref: **0510-Open**)

Introduction of cleaner production in the tank farm of the Pancevo Oil Refinery, Serbia. Jovan Jovanovic et al. *Journal of Cleaner Production*; Vol. 18 (8), May 2010, p.791-798

This work studies the introduction of cleaner production (CP) in the tank farm of the Pancevo Oil Refinery. From 2003 to 2008, substantial investments in storage technology and equipment were made in order to minimize the emissions of volatile organic compounds (VOCs). This article analyzes the effects of the CP activities using a model of tank farm emissions before and after reconstruction. US EPA TANKS software was used in order to develop a comprehensive model of the tank farm emissions. The year 2006 was accepted as representative for the analyses and related technical and production data as well as meteorological information were employed in the development of the model. The results show that the total VOC emissions were 37.6% lower after reconstruction and that the emissions of the major pollutant benzene were decreased by 62.7%. The effects of the CP activities were analyzed through the reduction of ecological damage, elements related to the operating costs, liability issues and the company's image. Future tank farm reconstruction activities in the Oil Refinery, Pancevo were proposed and their environmental effects predicted. An indicator of the expected decrease in VOC pollution was developed and quantified, with the aim of its use for quick calculations in similar cases.

(To request: email library@energylibrary.org.nz Ref: **0510-Oil**)

Coal gasification and IGCC technology: A brief primer. Weil, K. S. *Institution of Civil Engineers. Proceedings - Energy*; Feb 2010 Vol. 163 (1), p.7-16
(To request: email library@energylibrary.org.nz Ref: **0510-Coal**)

Practical risk management. Roman, J.; Tejero, S. *Energy Risk*; Apr 2010 Vol. 7 (6). p.46-50
An article about risk management for vertically integrated energy companies.
(To request: email library@energylibrary.org.nz Ref: **0510-Risk**)

A new car, a new grid: The electric car is back (with help from new batteries, a smarter grid, and Uncle Sam). Dickerman, L.; Harrison, J. *IEEE Power & Energy Magazine*; Mar/Apr 2010 Vol. 8 (2), p.55-61

Why electrified transportation? Why now? For decades, inventors, manufacturers, and consumers have tinkered with the idea of electrifying transportation. To date, however, the global transportation fleet remains fossil fuel based. Other technologies such as hydrogen fuel cells and biofuels have also been "on the near horizon" for years. So what makes electrified transportation feasible now, and how likely is it that it will transform the transportation sector?

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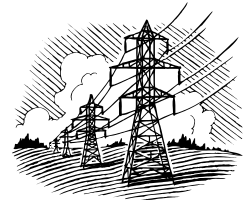
(To request: email library@energylibrary.org.nz Ref: **0510-EV**)

Increase of static electrification in an aged oil-immersed transformer. Kobayashi, Takayuki et al. *Electrical Engineering in Japan*; May 2009, Vol. 167 (3), p.10-1951
(To request: email library@energylibrary.org.nz Ref: **0510-Transformer**)

Social cost-efficient service quality--Integrating customer valuation in incentive regulation: Evidence from the case of Norway. Christian Growitsch et al. *Energy Policy*; Vol. 38 (5), May 2010, p.2536-2544
(To request: email library@energylibrary.org.nz Ref: **0510-Networks**)

Resource allocation for reliability of a complex system with aging components. Anderson-Cook, Christine M. et al. *Quality & Reliability Engineering International*; Jun 2009, Vol. 25 (4), p.481-494
(To request: email library@energylibrary.org.nz Ref: **0510-Aging**)

Study of a microgrid with vehicle-to-grid sources during network contingencies. Jayawarna, N.; Barnes, M. *Intelligent Automation & Soft Computing*; Jun 2010, Vol. 16 (2), p.289-302
(To request: email library@energylibrary.org.nz Ref: **0510-Microgrid**)



Differential evolution algorithm for static and multistage transmission expansion planning. Sum-Im, T. et al. *IET Generation, Transmission & Distribution*; Apr 2009, Vol. 3 (4), p.365-384
A novel differential evolution algorithm (DEA) is applied directly to the DC power flow-based model in order to efficiently solve the problems of static and multistage transmission expansion planning (TEP). The purpose of TEP is to minimise the transmission investment cost associated with the technical operation and economical constraints. Mathematically, long-term TEP using the DC model is a mixed integer nonlinear programming problem that is difficult to solve for large-scale real-world transmission networks. In addition, the static TEP problem is considered both with and without the resizing of power generation in this research. The efficiency of the proposed method is initially demonstrated via the analysis of low, medium and high complexity transmission network test cases. The analysis is performed within the mathematical programming environment of MATLAB using both DEA and conventional genetic algorithm and a detailed comparative study is presented.
(To request: email library@energylibrary.org.nz Ref: **0510-Expansion**)

An electroscope system based on electric field measurement method for UHV transmission lines. Fan Yang et al. *International Journal of Emerging Electric Power Systems*; 2009, Vol. 10 (2), Special section p.1-8
(To request: email library@energylibrary.org.nz Ref: **0510-Field**)

Analytical modeling of a square-wave-controlled cascaded multilevel STATCOM. Sternberger, R.; Jovcic, D. *IEEE Transactions on Power Delivery*; 24 (4), 2009, p.2261-2269
(To request: email library@energylibrary.org.nz Ref: **0510-STATCOM**)

Reliability-based optimal design of electrical transmission towers using multi-objective genetic algorithms. Mathakari, Sachin et al. *Computer-Aided Civil & Infrastructure Engineering*; May 2007, Vol. 22 (4), p.282-292
(To request: email library@energylibrary.org.nz Ref: **0510-Towers**)

Overhead lines insulation distance reduction due to stay wire's expansion from ground fires. Psarros, E. G. et al. *IET Generation, Transmission & Distribution*; Mar 2009, Vol. 3 (3), p.237-241
(To request: email library@energylibrary.org.nz Ref: **0510-Fire**)

Want to see more articles? New articles are added to our members' online catalogue every week. Please [contact us](#) if you have forgotten your login details.

Reports

The geothermal energy report: Direct use and power generation. (5th edition) 2009.
This 191-page ABS Energy Research market research report covers many countries, including New Zealand. Sections include: Introduction to geothermal energy; Overview of geothermal energy capacity & utilisation; Geothermal power industry – Overview; Geothermal revenue & costs – generation, construction & equipment sales; Country use and development of geothermal energy.
(To request: email library@energylibrary.org.nz Ref: **0510-Report1**)

Alstom. SWOT Analysis. By Datamonitor. Apr 2010 (10 pages)
Company profile of ALSTOM. Includes a strengths, weaknesses, opportunities and threats (SWOT) analysis.
(To request: email library@energylibrary.org.nz Ref: **0510-Report2**)

Contact Energy Limited. SWOT Analysis. By Datamonitor. Apr 2010 (9 pages)
Company profile of Contact Energy Ltd. Includes a SWOT analysis.
(To request: email library@energylibrary.org.nz Ref: **0510-Report3**)

Ergon Energy. SWOT Analysis. By Datamonitor. Apr 2010 (8 pages)
Company profile of Ergon Energy. Includes a SWOT analysis.
(To request: email library@energylibrary.org.nz Ref: **0510-Report4**)

Genesis Energy. SWOT Analysis. By Datamonitor. Apr 2010 (8 pages)
Company profile of Genesis Energy. Includes a SWOT analysis.
(To request: email library@energylibrary.org.nz Ref: **0510-Report5**)

Origin Energy Limited. SWOT Analysis. By Datamonitor. Apr 2010 (9 pages)
Company profile of Origin Energy Ltd. Includes a SWOT analysis.
(To request: email library@energylibrary.org.nz Ref: **0510-Report6**)

Oil & Gas Industry Profile: Australia. By Datamonitor. May 2010 (44 pages)
(To request: email library@energylibrary.org.nz Ref: **0510-Report7**)

EIANZ Environment Update

In June last year we published a pilot Environment Update. We have now partnered with the New Zealand chapter of the Environment Institute of Australia and New Zealand (EIANZ) to produce a quarterly Environment Update.

The special topic in the [May 2010 issue](#) is Biodiversity. Other topics covered include: Public environmental reporting; Public participation in environmental decision making; Sustainability; Water; Climate change; Environmental management systems; Environmental education and environmental practice; Business and management.

All articles listed in the Environment Update are available from the Energy Library collection.

The EIANZ Environment Update is on our [newsletter](#) page. We will advise Energy Library members via the Energy Update each time a new issue is published.

Energy on the Web

New Zealand

Wind Energy Conference 2010 – [presentations](#) are now available online.

Initial Electricity Industry Participation Code. The [Code](#) will replace the Electricity Governance Rules 2003 (EGRs) – the industry's current rule book.

Analysis of generator offers Jan – March 2010 – Energy Link [report](#) for Major Electricity Users' Group (MEUG).

Impact on Australian futures prices of ETS delay announcement - NZIER [report](#) for the Major Electricity Users' Group (MEUG).

Transfer of Tekapo A and B Power Stations to Genesis Energy - Regulatory impact [statement](#).

Minister praises EECA award success - Beehive press [release](#).

New oversight arrangements for gas retail contracts - Beehive press [release](#).

Submissions on the Initial Gas Default Price-Quality Path Issues Paper – viewable on the Commerce Commission [website](#).

Positive, but misses the boat - NZIER [response](#) to the 2010 Budget.

Transpower's 2010 Asset Management Plan – viewable on the Transpower [website](#).

Tidal energy potential in Cook Strait – Radio NZ [audio](#) file.

Gas hydrates or 'burning ice' - Radio NZ [audio](#) file.



A few recent updates from the Electricity Commission (titles are hyperlinked):

[Dispatchable Demand Regime consultation paper](#)
[Distributed generation statistics for 2009](#)
[Lower South Island Renewables Investment Proposal conference](#)
[Presentations from the Market Development Programme conference held on 25-26 May 2010.](#)
[Submissions received on Wind forecast and market integration: options](#)
[Submissions received on the Amendments to the advanced metering infrastructure guidelines](#)
[Tool for understanding scarcity pricing and locational price risk management impacts](#)
[Upper North Island Dynamic Reactive Support Investment Proposal](#)

World Geothermal Congress 2010 conference (Bali, 25-29 April 2010). Papers available via a searchable [website](#) and include this one: [2005 – 2010 New Zealand Country Update](#).

International

Gulf of Mexico response – BP [updates](#), press releases etc on the spill.

EPA response to BP spill in the Gulf of Mexico – EPA [website](#).

Deepwater Horizon oil rig disaster – Greenpeace [photos](#) and live feed of the plume.

The American Power Act - This energy and climate [bill](#) was released in May by US Senators John Kerry (D-Mass) and Joe Lieberman.

American Power Act contains little direct support for renewables - Renewable Energy World [article](#).

Prime Minister's Task Group on Energy Efficiency issues paper - ENA (Australia) [response](#).

Summary of the Feed In Tariff Scheme – Energy Business Review (UK) white [paper](#).

IEA response system for oil supply emergencies - 2010 IEA [brochure](#).

Communicating on climate policy engagement: A guide to sustainability reporting - March 2010 BSR [report](#).

EIA Annual Energy Outlook 2010 – this [publication](#) provides projection and analysis of US energy supply, demand, and prices through 2035.

International Energy Outlook 2010: Highlights - presents an [assessment](#) by the Energy Information Administration (EIA) of the outlook for international energy markets through 2035.

Towards a new Energy Strategy for Europe 2011-2020 - European Commission public consultation [document](#).

Action amid uncertainty: The business response to climate change - Ernst & Young [report](#).



The U. S. Marine Hydrokinetic Renewable Energy Technology Roadmap – view [here](#).

Wind energy and electricity prices - European Wind Energy Association (EWEA) [report](#).

The potential health impact of wind turbines - Chief Medical Officer of Health of Ontario May 2010 [report](#).

Geothermal energy: International market update – GEA [report](#).

Measuring the green economy - U.S. Commerce Department, Economics and Statistics Administration [report](#).

U.S. carbon dioxide emissions and intensities over time: A detailed accounting of industries, government and households - U.S. Commerce Department, Economics and Statistics Administration [report](#).

Green Footstep: Assessment [tool](#) for reducing carbon emissions from building construction.

Solar for the energy revolution: IEA launches the PV and CSP roadmaps - [presentation](#).

Biodiversity threat will eclipse climate change economic impacts but still misses CEO and valuations radar – PricewaterhouseCoopers [news release](#).

Global biodiversity outlook 3 - Secretariat of the Convention on Biological Diversity [report](#).

Hybrid Scorecard - Union of Concerned Scientists' web [resource](#).

Visualizing the U.S. electric grid – interesting NPR [graphical](#) representation.

Fuel for Thought (Energy chocolate competition)

Fuel without fear

Rocky Mountain Institute (RMI) is building a detailed roadmap, called Reinventing Fire™ to move the U.S. off fossil fuels by 2050, led by business for profit. Watch a video about their vision [here](#).



To be in to win this month's block of Energy chocolate just [tell us](#) who founded the Rocky Mountain Institute. Answer: _____ and _____ Lovins. (Clue: see the RMI [website](#)).

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

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