

Energy Update

Nov/Dec 2009

Welcome to our final Energy Update for the year. We are open for requests until 4:30pm on Friday 18th Dec and we will reopen on Tues 5th Jan. We hope you have a safe, happy and energetic (☺) holiday season.

The Energy Update is a regular round-up of books, articles, standards, reports and other resources available from the Energy Library collection. This month we feature a special section on [Emissions Trading and Carbon Taxes](#).

Members: To request any resource listed in this newsletter just [email](#) us its title or Ref code.

Non-members: You may be able to access items from your institutional or public library via inter-library loan.

Kat McAra, Current Awareness Advisor



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[Fuel for Thought \(Energy chocolate competition\)](#)

New Items for Loan

10 days to faster reading. Marks-Beale, Abby. New York: Philip Lief Group, 2001
This book is an easily-read aid to faster reading. The author describes methods to increase your comprehension and concentration, to cover more material, and to enjoy reading more.
(To borrow this book email library@energylibrary.org.nz Ref: **1109-Loan1**)

Tracking industrial energy efficiency and CO2 emissions in support of the G8 Plan of Action. Paris: IEA/OECD, 2007
Energy efficiency in the industrial sector has improved in the past 25 years, but more remains to be done. You can access this [online](#) or borrow our print copy.
(To borrow this book email library@energylibrary.org.nz Ref: **1109-Loan2**)

AS/NZS 1891.4: 2009. Industrial fall arrest systems devices. Part 4. Selection, use and maintenance.

2nd ed. Previous ed.: AS/NZS 1891.4 2000

(To borrow this standard email library@energylibrary.org.nz Ref: **1109-Loan3**)

AS/NZS 1891.1: 2007. Industrial fall-arrest systems and devices: Part 1: Harnesses and ancillary equipment.

2nd ed. Includes amendments 1 and 2.

(To borrow this standard email library@energylibrary.org.nz Ref: **1109-Loan4**)

AS/NZS ISO 31000: 2009 Risk management - Principles and guidelines.

Originated as AS/NZS 4360:1995. Third edition 2004. Revised and redesignated as AS/NZS ISO 31000: 2009

(To borrow this standard email library@energylibrary.org.nz Ref: **1109-Loan5**)

IEC 61243-1: 2009. Live working: Voltage detectors. Part 1. Capacitive type to be used for voltages exceeding 1 kV a.c.

2nd ed. Includes amendment 1, 2009

(To borrow this standard email library@energylibrary.org.nz Ref: **1109-Loan6**)

IEEE 762: 2006. IEEE standard definitions for use in reporting electric generating unit reliability, availability and productivity.

Revision of IEEE 762:1987

(To borrow this standard email library@energylibrary.org.nz Ref: **1109-Loan7**)

Special Journal Issues

Carbon in motion: Fuel economy, vehicle use, and other factors affecting CO2 emissions from transport. This special section in the October 2009 issue of *Energy Policy* contains 16 articles covering these topics:

- Transport activity, vehicle use and fuel economy – Methodology
- Country studies - Relating both trends in new and on-road fuel economy and car use, and a particularly interest aspect of the country/regions policies
- Policies to restrain carbon emissions from transport

(To borrow this whole issue email library@energylibrary.org.nz Ref: **1109-Loan8**)

Future skills 2009. This *Energy World* supplement contains 5 articles, including:

- Professional skills for our sustainable future.
- Energy people - well paid, highly motivated, aspirational.
- Retain knowledge, recruit enthusiasm.

(To borrow this whole issue email library@energylibrary.org.nz Ref: **1109-Loan9**)

New Management, Marketing and HR Articles

Embracing uncertainty and anxiety. Rosen, Robert H. *Leader to Leader*; Fall 2008, Vol. 2008 (50), p.34-38

(To request: email library@energylibrary.org.nz Ref: **1109-Anxiety**)

Evolution of leadership development at General Electric. Waters, Robert C. *Engineering Management Journal*; Mar 2009, Vol. 21 (1), p.42-46

(To request: email library@energylibrary.org.nz Ref: **1109-Leader**)

Community relations 2.0. Kane, Gerald C. et al. *Harvard Business Review*; Nov 2009, Vol. 87 (11), p.45-50

Before the internet, organizations had far more time to monitor and respond to community activity, but that luxury is long gone, leaving them in dire need of a coherent outreach strategy, fresh skills, and adaptive tactics. Drawing on the authors' study of more than two dozen firms, this article describes the changes wrought by social media in particular and shows managers how to take advantage of them -- lessons that Kaiser Permanente, Domino's, and others learned the hard way. Social media platforms enhance the power of communities by promoting deep relationships, facilitating rapid organization, improving the creation and synthesis of knowledge, and enabling robust filtering of information. The authors cite examples from the health care industry, where social media participation is vigorous and influential.

(To request: email library@energylibrary.org.nz Ref: **1109-Relations**)

Marketing principles for interactive utilities. Maschoff, D.; Johnson, A. *Electric Perspectives*; Jul/Aug 2009, Vol. 34 (4), p.62-67

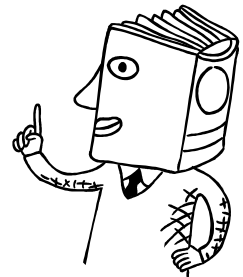
(To request: email library@energylibrary.org.nz Ref: **1109-Marketing**)

Knowledge delivered in any other form is ... perhaps sweeter.

Nancherla, Aparna. *T+D*; May 2009, Vol. 63 (5), p.54-60

An article about social learning (informal learning).

(To request: email library@energylibrary.org.nz Ref: **1109-Knowledge**)



Goals gone wild: The systematic side effects of overprescribing goal setting. Ordenez, L. D. et al. *Academy of Management Perspectives*; Feb 2009, Vol. 23 (1), p.6-16

(To request: email library@energylibrary.org.nz Ref: **1109-Goals**)

Hiring for emotional intelligence. Bielaszka-DuVernay, Christina. *Harvard Management Update*; Nov 2008, Vol. 13 (11), p.3-5

(To request: email library@energylibrary.org.nz Ref: **1109-Hiring**)

The global talent crisis. Gordon, E.; Levit, A. *Futurist*; Sep/Oct 2009, Vol. 43 (5), p.34-39

(To request: email library@energylibrary.org.nz Ref: **1109-Talent**)

How to monitor internal controls. Colbert, Jan. *Journal of Corporate Accounting & Finance*; May/June 2008, Vol. 19 (4), p.41-45

(To request: email library@energylibrary.org.nz Ref: **1109-Controls**)

Risk assessment as an explicit dimension for tender evaluation. Kwok, E. C. S. et al. *Institution of Civil Engineers. Proceedings - Management, Procurement and Law*; Aug 2009 Vol. 162 (3), p.117-120

(To request: email library@energylibrary.org.nz Ref: **1109-Risk**)

New Energy and Environment Articles

Rural town heading towards energy self-sufficiency. *Electrical + Automation Technology (magazine of the New Zealand Electrical Institute)*; Apr/May 2009, p.10-11

The South Island town of Waitati is taking proactive steps to deal with climate change and peak oil.

(To request: email library@energylibrary.org.nz Ref: **1109-Rural**)

New regulations for incentives to install photovoltaic systems. Kaspura, Andre. *Engineers Australia*; Jul 2009, Vol. 81 (7), p.32-33

(To request: email library@energylibrary.org.nz Ref: **1109-PV**)

Quantum solar power. Newman, Keith. *E.NZ magazine: The Magazine of Technical Enterprise (Institution of Professional Engineers New Zealand, IPENZ)*; Jul/Aug 2009, Vol. 10 (4), p.14-16

Keith Newman reports on a senior New Zealand researcher who may be on the verge of a breakthrough that environmentalists have been dreaming of for decades - a more cost effective way to deliver electricity from the sun's rays.

(To request: email library@energylibrary.org.nz Ref: **1109-Solar**)

Eel protection measures within the Manapouri hydro-electric power scheme, South Island, New Zealand. Boubee, Jacques et al. *Hydrobiologia*; Jul 2008, Vol. 609 (1), p.71-82

(To request: email library@energylibrary.org.nz Ref: **1109-Eel**)

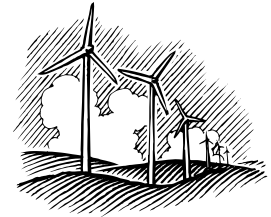
Hydraulic air pumps for low-head hydropower. Howey, D. A.; Pullen, K. R. *Proceedings of the Institution of Mechanical Engineers: Part A: Journal of Power and Energy*; Mar 2009, Vol. 223 (A2), p.115-125

Hydropower is a proven renewable energy resource and future expansion potential exists in smaller-scale, low-head sites. A novel approach to low-head hydropower at run-of-river and tidal estuary sites is to include an intermediate air transmission stage. Water is made to flow through a siphon, rather than a conventional water turbine, and at the top of the siphon the pressure is sub-atmospheric and air is entrained into the water. The siphon forms a novel, hydraulically powered vacuum pump or 'hydraulic air pump' (HAP). Air is pumped by the HAP through a separate air turbine and generator. This arrangement offers dramatic increases in

turbine-generator speed and allows better control and matching of components and lifecycle cost reductions due to reduced maintenance costs and the use of smaller rotating machines. This study builds on previous work on such systems by showing why the pumping process can be treated as isothermal. Also, initial test results with a small siphon are presented and compared to existing models. These show a discrepancy between predicted and measured pressure ratios and therefore an overprediction of efficiency and power output using simple mathematical models.

(To request: email library@energylibrary.org.nz Ref: **1109-Hydro**)

Noise management on modern wind turbines. Romero-Sanz, I.; Matesanz, Á. *Wind Engineering*; Jan 2008, Vol. 32 (1), p.27-44
(To request: email library@energylibrary.org.nz Ref: **1109-Noise**)



China's wind industry: Policy lessons for domestic government interventions and international support. Xiliang Zhang et al. *Climate Policy (Earthscan)*; 2009, Vol. 9 (5), p.553-564
(To request: email library@energylibrary.org.nz Ref: **1109-Wind**)

Modeling of a geothermal standing column well. Abu-Nada, E. et al. *International Journal of Energy Research*; Mar 2008, Vol. 32 (4), p.306-317
(To request: email library@energylibrary.org.nz Ref: **1109-Geothermal**)

The real path to green energy: Hybrid nuclear-renewable power. Forsberg, Charles. *Bulletin of the Atomic Scientists*; Nov 2009, Vol. 65 (6), p.65-71
(To request: email library@energylibrary.org.nz Ref: **1109-Nuclear**)

How to jump-start the clean tech economy. Johnson, Mark W. and Suskewicz, Josh. *Harvard Business Review*; Nov 2009, Vol. 87 (11), p.52-60
Billions of dollars worldwide are pumped into the search for clean technology and renewable energy. So far, however, most investment has been in companies that are using conventional business models to fit new technologies into existing systems. A far better approach, say Johnson and Suskewicz, is to create whole new systems. The authors propose a framework for thinking about clean tech that consists of four interdependent components: an enabling technology, an innovative business model, a careful market-adoption strategy, and a favorable government policy. Two recent experiments show how this framework can be applied: Better Place, founded by the software executive Shai Agassi, has a network of battery-recharging and -switching stations to support its electric cars and a business model based on selling electricity (miles) rather than vehicles. It has a foothold market in Israel, where gas-powered cars are taxed far higher than electric ones. Masdar City, now under construction in Abu Dhabi, will be a carbon-neutral incubator of clean technologies, supported by the investment, manufacturing, strategy, and academic units of a government initiative. The city is itself a foothold market and will benefit from government subsidies, "free zone" status, and favorable regulations. Both enterprises provide hope for supplanting the oil-based economy.
(To request: email library@energylibrary.org.nz Ref: **1109-Clean**)

Investing in green technology. *Wall Street Transcript*; Jan 2009, Vol. 183 (18), p.1-50
An interview with Theodore O'Neill, senior analyst at Kaufman Bros. LP.
(To request: email library@energylibrary.org.nz Ref: **1109-Green**)

Rocky start for Ontario feed-in tariff program. *Energy Design Update*; Nov 2009, Vol. 29 (11), p.7-9
(To request: email library@energylibrary.org.nz Ref: **1109-FIT**)

Converting a coal-fired powerstation to biomass. Restall, Brian. *Engineers Australia: Magazine of the Institution of Engineers Australia*; May 2009, Vol. 81 (5), p.36-37
An article about Drax coal-fired powerstation in Yorkshire, which is being retrofitted so that it can co-fire coal and biomass.
(To request: email library@energylibrary.org.nz Ref: **1109-Biomass**)

Alternative transportation fuels: Distribution infrastructure for hydrogen and ethanol in Iowa. Wakeley, Heather L. et al. *Journal of Infrastructure Systems*; Sep 2008, Vol. 14 (3), p.262-271
(To request: email library@energylibrary.org.nz Ref: **1109-Ethanol**)

Lowering fleet costs and emissions. Barry, Robert. *New Zealand Company Vehicle & Executive Cars*; Oct 2009, p.57-62
(To request: email library@energylibrary.org.nz Ref: **1109-Fleet**)

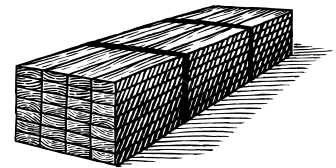
Driving style extremes and potential vehicle emission effects. Felstead, T. et al. *Institution of Civil Engineers. Proceedings - Transport*; Aug 2009, Vol 162 (3), p.141-148
(To request: email library@energylibrary.org.nz Ref: **1109-Driving**)

The challenge of integrated impact assessment: One set of guiding principles -- many methods. Baines, J. and Morgan, B. *Australasian Journal of Environmental Management*; Mar 2009, Vol. 16 (1), p.6-15
Many practitioners are already engaged in integrated impact assessments of some form. At the same time, there are many practitioners and potential clients who are uncertain how integrated impact assessments can be conducted. This article draws on a contemporary review of international 'integration' practice and an historical overview of the evolution of impact assessment in general, and suggests how these two lines of practice could merge, yielding a set of key questions aimed at helping teams of practitioners to develop their own practice of integrated impact assessment. The main messages from the article are practically focussed: integration is not methodologically prescribed; nor does integration happen by accident, rather by design; time and resource constraints are likely to influence the degree of sophistication that is possible; and better documentation of integrative practice will support learning by others and self-improvement.
(To request: email library@energylibrary.org.nz Ref: **1109-Impact**)

Walking the walk: The association between community environmentalism and green travel behavior. Kahn, Matthew E. and Morris, Eric A. *Journal of the American Planning Association*; Autumn 2009, Vol. 75 (4), p.389-405
(To request: email library@energylibrary.org.nz Ref: **1109-Travel**)

Global warming every 1,500 years: Implications for an engineering vision. Avery, Dennis T. *Leadership & Management in Engineering*; Jul 2008, Vol. 8 (3), p.153-159
This paper presents a counterpoint to the claim that CO₂ and other "greenhouse gases" are the cause of warming trends in the global climate. The author presents a summary of the evidence that there are historical, geological, and biological records, as well as other indicators of a natural longer-term cycle in global temperature trends. Despite this, the claim that the effects of global warming are entirely benign is not made; rather, there are aspects of this paper that should inform decisions regarding proposed technological and engineering solution. In particular, the implications for engineering leadership is the concept of choosing adaptive "no-regrets" technologies applied to address the inevitable trends of global climate change. Several of the measures described in this paper are the same as those proposed on the basis of global warming caused by emissions of greenhouse gases. These include reducing dependence on fossil fuels, greater efficiency and transportation, energy-efficient buildings, and planning for changes in rainfall and drought patterns affecting the availability of water supply.
(To request: email library@energylibrary.org.nz Ref: **1109-Global**)

Modeling of thermal energy demand in MDF production. Jinngge Li et al. *Forest Products Journal*; Sep 2007, Vol. 57 (9), p.97-104
This article describes the modeling of thermal energy demand in the manufacture of medium density fiberboard (MDF).
(To request: email library@energylibrary.org.nz Ref: **1109-Demand**)



The performance indicator delusion. Vesma, V. *Energy World*; Sep 2009, (374), p.20-21
A new European standard for energy management is around the corner which advocates the use of energy performance indicators to measure energy savings. However, an over-reliance from energy managers on such indicators will provide inaccurate results.
(To request: email library@energylibrary.org.nz Ref: **1109-Energy**)

Making energy retrofits work. *Sustainable Facility*; Nov 2009, Vol. 34 (5), p.31-33
(To request: email library@energylibrary.org.nz Ref: **1109-Retrofits**)

Energy efficiency in lighting: Considerations and possibilities. D.L. Loe. *Lighting Research and Technology*; Sep 2009, Vol. 41 (3), p.209-218
(To request: email library@energylibrary.org.nz Ref: **1109-Lighting**)

Energy efficiency: Tracking natural gas with flowmeters. Shannon, Wayne. *Chemical Engineering*, Oct 2009, Vol. 116 (10), p.44-48
(To request: email library@energylibrary.org.nz Ref: **1109-Flow**)

Pump up the heat. Whitley, Bill. *Consumer*; Oct 2009, (496), p.34-36
Consumer tested a number of bigger-sized heat pumps, which are ideal for larger open areas.
(To request: email library@energylibrary.org.nz Ref: **1109-Heat**)

Physiochemical and engineering studies of Gas Hydrate: An inflammable ice: A future fuel of NCER. Brahma, Nitosh Kumar. *Chemical Business*; Sep 2009, Vol. 23 (9), p.34-40
An article about gas hydrate as a nonconventional energy resources (NCER).
(To request: email library@energylibrary.org.nz Ref: **1109-Hydrate**)

Combustion characteristics of 24 lignite samples. Sensogut, C. et al. *Energy Sources Part A: Recovery, Utilization & Environmental Effects*; Mar 2008, Vol. 30 (5), p.420-428
(To request: email library@energylibrary.org.nz Ref: **1109-Lignite**)

A cleaner, cheaper, indigenous fuel for combined cycle plants. Fergusson, Kenneth J. *Modern Power Systems*; Aug 2009, Vol. 29 (8), p.24-26
An article about underground coal gasification for combined cycle power plants in the UK.
(To request: email library@energylibrary.org.nz Ref: **1109-Coal**)

Optimization of heat recovery steam generator through exergy analysis for combined cycle gas turbine power plants. Jong Soo In and Sang Yong Lee. *International Journal of Energy Research*; Jul 2008, Vol. 32 (9), p.859-869
(To request: email library@energylibrary.org.nz Ref: **1109-Steam**)

Progress in the development of coatings for protection of new generation steam plant components. Agüero, A. *Energy Materials*; Mar 2008, Vol. 3 (1), p.35-44
(To request: email library@energylibrary.org.nz Ref: **1109-Coatings**)

Root cause failure analysis: The human factor. Ransom, David L. *Turbomachinery International*; May/June 2008, Vol. 49 (3), p.16-18
(To request: email library@energylibrary.org.nz Ref: **1109-Root**)

The major accident risk (MAR) process - Developing the profile of major accident risk for a large multi national oil company. Considine, M. and Hall, S. M. *Process Safety & Environmental Protection: Transactions of the Institution of Chemical Engineers Part B*; Jan 2009, Vol. 87 (1), p.59-63
The paper describes a programme to develop the profile of major accident risk across a large multi national oil company. It describes the concepts, tools and processes for constructing the risk profile and some of the key learnings from the exercise.
(To request: email library@energylibrary.org.nz Ref: **1109-Accident**)

Electricity futures prices: Some evidence on forecast power at Nord Pool. Torrò, Hipòlit. *The Journal of Energy Markets*; Fall 2009, Vol. 2 (3), p.3-26
(To request: email library@energylibrary.org.nz Ref: **1109-Futures**)

Municipal aggregation and retail competition in the Ohio energy sector. Littlechild, Stephen. *Journal of Regulatory Economics*, Oct 2008, Vol. 34 (2), p.164-194
(To request: email library@energylibrary.org.nz Ref: **1109-Retail**)

Hedge contract characterization and risk-constrained electricity procurement. Zhang, Q. and Wang, X. *IEEE Transactions on Power Systems*; 2009, Vol. 24 (3), p.1547-1558
(To request: email library@energylibrary.org.nz Ref: **1109-Hedge**)

Powerful talk [broadband over power lines]. Qiu, Xiangqun. *Power Engineer*; Feb 2007, Vol. 21 (1), p.38-43

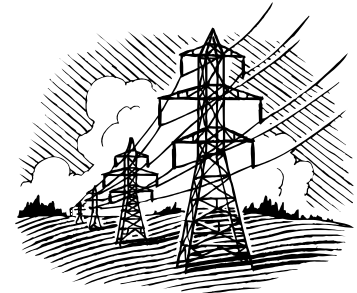
This paper discusses the challenges and benefits of Broadband over Power Lines (BPL) for the utilities and customer. BPL provides utilities with benefits beyond additional revenue. The same system that transmits Internet data can be used to remotely monitor household electricity usage, eliminating the need to send a technician out to inspect the household meter. The system can also provide detailed feedback on electricity usage in real time, which could potentially detect brownouts before they escalate into blackouts. For home and office broadband users, the ubiquity of power lines offer services that were not available to many in remote areas. For broadband users in the urban areas, additional choices mean competitive prices and better services.

(To request: email library@energylibrary.org.nz Ref: **1109-BPL**)

MDMS: Meeting the meter data management challenge.

Louie, Belvin. *Metering International*; 2009, (2), p.34,36-37

(To request: email library@energylibrary.org.nz Ref: **1109-Meter**)



Smart grid success will rely on system solutions.

Davis, Sam. *Power Electronics Technology*; Oct 2009, Vol. 35 (10), p.16-23

(To request: email library@energylibrary.org.nz Ref: **1109-Grid**)

A general equilibrium analysis of potential demand side management programs in the household sector in Thailand. Timilsina, Govinda R. and Shrestha, Ram M. *International Journal of Energy Sector Management*; 2008, Vol. 2 (4) p.570-593

(To request: email library@energylibrary.org.nz Ref: **1109-DSM**)

Inductive reactance component model for high-voltage partial-core resonant transformers. Bell, S. C. and Bodger, P. S. *IET Electric Power Applications*; Sep 2008, Vol. 2 (5), p.288-297

A model for the inductive reactance components of an equivalent circuit for high-voltage partial-core resonant transformers is presented. The self and mutual inductances of the transformer windings are calculated using a two-dimensional linear magneto-static finite-element model. Provisions are made for axial-offset and centre-gap tuning. The model can also predict the secondary voltage at which core saturation occurs under resonant conditions. Its performance was verified against test results of three sample transformers.

(To request: email library@energylibrary.org.nz Ref: **1109-Transformer**)

Improvements in current European network regulation to facilitate the integration of distributed generation. Frías, P. et al. *International Journal of Electrical Power & Energy Systems*; Oct 2009, Vol. 31 (9), p.445-451

This paper analyzes how traditional regulation of distribution system operators (DSO) has to be improved to accommodate higher levels of distributed generation (DG). In addition, new economic signals to be given to DG operators for system efficient integration are proposed. Regulatory improvements at the European level are recommended. Recommendations are centered on schemes for DSO revenue compensation to consider incremental network costs due to DG, distribution network planning integrating DG, and DSO incentives for improving network performance with active integration of DG. Regarding DG economic signals, recommendations are focused on the design of DG connection and use-of-system charges, the revision of current DG support mechanisms based on flat feed-in tariffs, and the provision of ancillary services by DG for network voltage management, power flow controls and islanding. (To request: email library@energylibrary.org.nz Ref: **1109-Network**)

Combined heat and power: Street-level domestic microgrids. Papafragkou, A. et al. *Institution of Civil Engineers. Proceedings - Energy*; Aug 2009, Vol. 162 (3), p.131-141 (To request: email library@energylibrary.org.nz Ref: **1109-CHP**)

High-voltage transmission lines: Proximity, visibility, and encumbrance effects. *Appraisal Journal*, Summer 2009, Vol. 77 (3), p.227-245. This article is available freely [online](#).

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.

Special Topic: Emissions Trading and Carbon Taxes

National's multi-billion dollar gamble. Wishart, Ian. *Investigate*; Jul 2009, Vol. 9 (101), p.26-34 (To request: email library@energylibrary.org.nz Ref: **1109-Topic1**)



Policy interactions, risk and price formation in carbon markets. William Blyth et al. *Energy Policy*; Vol. 37 (12), Dec 2009, p.5192-5207 (To request: email library@energylibrary.org.nz Ref: **1109-Topic2**)

Emission trading schemes: Potential revenue effects, compliance costs and overall tax policy issues. J. Pope; A.D. Owen. *Energy Policy*; Vol. 37 (11), Nov 2009, p.4595-4603 (To request: email library@energylibrary.org.nz Ref: **1109-Topic3**)

Beyond smokestacks. McCabe, Jess. *Environmental Finance*; Sep 2009 Vol. 10 (10), p.18-20 Will the UK's latest cap-and-trade experiment - the Carbon Reduction Commitment - persuade supermarkets and councils to see the light on energy efficiency? (To request: email library@energylibrary.org.nz Ref: **1109-Topic4**)

Reducing greenhouse gas emissions with a tax or a cap: Implications for efficiency and cost effectiveness. Dinan, T. M. *National Tax Journal*; Sep 2009, Vol. 62 (3), p.535-553
(To request: email library@energylibrary.org.nz Ref: **1109-Topic5**)

Capital market response to emission rights returns: Evidence from the European power sector. Stefan Veith et al. *Energy Economics*; Vol. 31 (4), Jul 2009, p.605-613

Prior studies on the distributional effects of the European Union's Emission Trading Scheme (EU ETS) have so far only relied on supply and demand data. Empirical evidence from capital markets has been missing. We address this gap and measure the ETS's economic consequences, using the expectations of investors towards the regulatory impact on firm value. Employing a multifactor model, we show that returns on common stock of the largest affected industry, power generation, are positively correlated with rising prices for emission rights. This implies that the market predicts that firms are not only able to pass on their share of the regulatory burden to customers but even achieve windfall profits by overcompensating for the costs.

(To request: email library@energylibrary.org.nz Ref: **1109-Topic6**)

Australia's emissions trading scheme: Opportunities and obstacles for linking. Jotzo, Frank; Betz, Regina. *Climate Policy (Earthscan)*; 2009, Vol. 9 (4), p.402-414

(To request: email library@energylibrary.org.nz Ref: **1109-Topic7**)

To Copenhagen via Australia. Petersen, A.; Artuso, E. *Energy Risk*;
Jun 2009 Vol. 6 (8), p.18-20,22-23

An article about Australia's proposed Carbon Pollution Reduction Scheme.

(To request: email library@energylibrary.org.nz Ref: **1109-Topic8**)

The design of a carbon tax. Metcalf, Gilbert E.; Weisbach, David.
Harvard Environmental Law Review; 2009, Vol. 33 (2), p.499-556

(To request: email library@energylibrary.org.nz Ref: **1109-Topic9**)



On emissions trading, toxic debt and the Australian power market. Paul Simshauser.
The Electricity Journal; Vol. 22 (2), Mar 2009, p.9-29

Implementation of emissions trading will have profound effects on the financial stability of coal generators. While the impact on equity capital is well understood, the potential fallout in the market for project finance is not. During the current global financial crisis, the form and quantum of transitional assistance to coal generators will be crucial to ensure ongoing participation of domestic and foreign project banks in the power markets.

(To request: email library@energylibrary.org.nz Ref: **1109-Topic10**)

The European Emissions Trading Scheme and International Emissions Trading - A comparative analysis. Lederer, Nicole. *New Zealand Journal of Environmental Law*; 2008 Vol. 12, p.1-37

(To request: email library@energylibrary.org.nz Ref: **1109-Topic11**)

Competitive markets. Cundy, C. *Environmental Finance*; Jun 2009 Vol. 10 (8), p.22-24.
Despite the credit crunch, activity on carbon exchanges is heating up - as is competition between them.

(To request: email library@energylibrary.org.nz Ref: **1109-Topic12**)

Cavaney: Cap-and-trade proposal would hit refiners hard. Nick Snow. *Oil & Gas Journal*; May 4 2009, Vol. 107 (17), p.34-42

Refiners will be hit harder than other US manufacturers under proposed cap-and-trade legislation, a ConocoPhillips official told the US House Energy and Commerce Committee. Red Cavaney, the company's SVP for government, public affairs, and communications, said the estimated \$68 billion the US Energy Information Administration estimated refiners would pay annually under a \$25/ton carbon tax includes collections of end-users' carbon taxes in addition to levies on refiners' greenhouse gases under the measure. Cavaney was part of a panel of witnesses who testified on behalf of the US Climate Action Program, a coalition of businesses, consumers, and environmentalists that produced legislative recommendations for controlling greenhouse gases which the House Energy and Commerce Committee used as it was prepared the current bill. A law to address climate change, according to National Petrochemical & Refiners Association president Charles T. Drevna, should set a realistic carbon reduction target without political preconceptions or punitive provisions.

(To request: email library@energylibrary.org.nz Ref: **1109-Topic13**)

Emissions Trading: References

The above is just a sample of articles we have on this topic. You may receive a longer list of articles by emailing library@energylibrary.org.nz (quote Ref: **1109-Biblio**)

Reports

Utilities Industry Profile: Global. Nov 2009, 38p.

Datamonitor profile. Contents include: Market overview; Market value; Market segmentation; Competitive landscape; Leading companies in the industry; Market forecasts; Demographics; Further reading.

(To request: email library@energylibrary.org.nz Ref: **1109-Report1**)

Utilities Industry Profile: Australia. Nov 2009, 29p.

Datamonitor profile.

(To request: email library@energylibrary.org.nz Ref: **1109-Report2**)

Utilities Industry Profile: United Kingdom. Nov 2009, 28p.

Datamonitor profile.

(To request: email library@energylibrary.org.nz Ref: **1109-Report3**)

Utilities Industry Profile: United States. Nov 2009, 31p.

Datamonitor profile.

(To request: email library@energylibrary.org.nz Ref: **1109-Report4**)

Featured Energy Events

The Journey to Emissions Trading. Energy Federation Lunchtime Seminar with Stuart Frazer (Frazer Lindstrom Ltd) 17 Dec 2009, Wgtn. See [Energy Federation website](#).

Enterprise Geospatial Solutions Summit. 22 Feb 2010, Wgtn. See [Conferenz website](#).

Smart Grids Summit: Delivering Smarter Utilities – Stepping Stones into the Future. 23 Feb 2010, Wgtn. See [Conferenz website](#).

NZ Wind Energy Conference and Exhibition 2010. 29 to 31 Mar 2010, Palmerston North. See [NZWEA website](#).

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

Energy on the Web

What? No web links?

We'd like some feedback on the usefulness of the links we provide to online publications (mostly energy-related reports) so that we know if we should continue including them.

To be entered into this month's draw for a king size bar of energy chocolate choose one of the following:

- I like the links so bring them back (click [here](#) and press send)
- I don't use the links (click [here](#) and press send)
- I have a comment on the links (click [here](#), put your comment in the body of the email and press send)

All responses received by 4pm Thurs 17th Dec will go into the draw.

Fuel for Thought (Energy chocolate competition)

Congratulations to Bronwyn, who won last month's draw.

To enter this month's competition visit the [Energy on the Web](#) section above.



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