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Samplings from this Issue

- How to manage your negotiating team.
- Best before forty: The shelf life of an engineer.
- Piloting the smart grid.
- Predicting the degradability of waste activated sludge.
- Making cycling irresistible: Lessons from The Netherlands, Denmark and Germany.
- Achieving durable repaired concrete structures: A performance-based approach.

► Special Focus : Solar Energy

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Management/Leadership/Strategic Planning/Recruitment/Training and Development/Project Management/Corporate Responsibility

√IPENZ 28/01 Why sustainability is now the key driver of innovation.

Nidumolu, R., Prahalad, C and Rangaswami, M. Harvard Business Review, Volume 87 Issue 9 (September 2009) Pages 56-64.

When companies pursue sustainability, it's usually to demonstrate that they are socially responsible. They expect that the endeavor will add to their costs, deliver no immediate financial benefits, and quite possibly erode their competitiveness. Meanwhile, policy makers and activists argue that it will take tougher regulations and educated, organized consumers to force businesses to adopt sustainable practices. But, say the authors, the quest for sustainability can unearth a mother lode of organizational and technological innovations that yield both top-line and bottom-line returns. That quest has already begun to transform the competitive landscape, as companies redesign products, technologies, processes, and business models. By equating sustainability with innovation today, enterprises can lay the groundwork that will put them in the lead when the recession ends. Nidumolu, Prahalad, and Rangaswami have found that companies on the journey to sustainability go through five distinct stages of change.

√IPENZ 28/02 Creating a complete business management system

Pojasek, R. Environmental Quality Management, Volume 17 Issue 4 (Summer 2008) Pages 87-95.

It is important to incorporate environmental management and occupational health and safety management systems into a company's overall management system. The article outlines the steps in transitioning to an integrated system. In addition the business principles for integrating key performance and operational requirements as part of a results-oriented business excellence framework are discussed. Good governance is analysed, especially in view of ameliorating the organisation's guiding principles and objectives to improve business management systems.

√IPENZ 28/03 Sharing leadership on corporate boards: A critical requirement for teamwork at the top. Conger, J and Lawler, E. Organizational Dynamics, Volume 38 Issue 3 (2009) Pages 183-191.

√IPENZ 28/04 Managing risks of large scale construction projects

Dey, P. Cost Engineering, Volume 51 Issue 6 (June 2009) Pages 23-27

√IPENZ 28/05 Considering risk within net present value: Calculations for government projects.

Gradl, P et al. Engineering Economist, Volume 54 Issue 2 (2009) Pages 152-174

While Shuttle retirement by 2010 and development of new launch vehicles is envisaged for space, there are no projected budget increases. Better understanding of cost factors early in the system life cycle is thus needed to control costs. A new launch vehicle upper-stage engine trade study is presented in this article. By utilising net present value and applying a set of risk factors, insight into costs were gained. Risk levels are assessed by means of a matrix.

√IPENZ 28/06 Impact of corporate strengths/weaknesses on project management competencies.

Isik, Z et al. International Journal of Project Management, Volume 27 Issue 6 (August 2009) Pages 629-637.

The project is at the core of the construction business. Project management can be used as a tool to maximize the success of projects and ultimately the success of construction companies. It is therefore worthwhile to explore the factors that can enhance project management competencies. In this study, it was hypothesized that “project management competencies” are influenced by “corporate strengths/weaknesses”. “Corporate strengths/weaknesses” was defined as a second-order construct composed of three latent variables including the company’s resources and capabilities, its strategic decisions, and the strength of its relationships with other parties. The data obtained from a questionnaire survey administered to 73 contractors were analyzed using structural equation modeling (SEM). The results of the study verified the hypothesis suggested.

√IPENZ 28/07 A macroeconomic perspective on skill shortages and the skill premium in New Zealand.

Razzak, W and Timmins, J. Australian Economic Papers Volume 47 Issue 1 (March 2008) Pages 74-91.

√IPENZ 28/08 Managing joint ventures.

Beamish, P and Lupton, N. Academy of Management Perspectives, Volume 223 Issue 2 (May 2009) Pages 75-94.

**√IPENZ 28/09 How to manage your negotiating team.**

Brett, J., Friedman, R and Behfar, K. Harvard Business Review, Volume 87 Issue (September 2009) Pages 105-109.

You are leading a negotiating team for your company. When you sit down with the other party, someone on your side of the table blurts out: "Just tell us -- what do we need to do to get more of your business?" And in that moment, you know you've lost the upper hand. Gaffes like this are more common than most businesspeople would care to admit, management professors Brett, Friedman, and Behfar have found in their research. Even though team members are all technically on the same side, they often have different priorities and imagine different ideal outcomes: Business development just wants to close the deal. Finance is most concerned about costs. Legal is focused on patents and intellectual property. The authors recommend taking four steps, either singly or in tandem, to align those goals.

√IPENZ 28/10 Learning to speak.

Swan, L. Employment Today (July 2008) Pages 34-35.
Nine criteria for effective presentations.

√IPENZ 28/11 Site specific method for determining the most financially feasible project size.

Lavender, S and Donnelly, R. HRW: Hydro Review Worldwide, Volume 15 Issue 1 (March 2007) Pages 34, 36-40.

√IPENZ 28/12 A "better" work force?

Schrage, M. Conference Board Review, Volume 46 Issue 4 (Summer 2009) Pages 37-45.

The article focuses on the applicability of coaching and technology for gaining success in the workplace. It notes the demand of the global nature of economic competition for a coordinated worldwide approach making regulating improvements become complicated. It mentions the aim of the best-performing people in the best-performing organizations which is to improve by having in their thoughts the true value of winning.

√IPENZ 28/13 Success factors for a lessons-learned system in a construction organization.

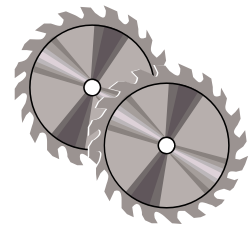
Jeon, J. Cost Engineering, Volume 51 Issue 5 (May 2009) Pages 13-10.

As the construction industry is a knowledge-sensitive industry, it requires knowledge to be appropriately managed. For successful planning and execution of dynamic projects that are intermittent in nature, lessons-learned (LL) need to be exploited. Intranet technologies are one possible enabler to facilitate knowledge management (KM). However, unless an intranet-based LL system is well designed from the beginning, it can only serve to speed up the exchanges of data and information rather than knowledge. This article outlines critical success factors for an LL management system..

√IPENZ 28/14 Technological breakthroughs and asset replacement

Yatsenko, Y and Hritonenko, N. Engineering Economist, 2009, Volume 54 Issue 2 (2009) Pages 81-100.

Optimal replacement of a single asset under continuous and discontinuous technological change is analysed in this paper. The authors study an infinite-horizon replacement problem with a variable asset lifetime. The asset deteriorates as it becomes older and so maintenance costs rise. Due to technological change, both maintenance and new capital costs fall in time for a fixed asset age. Analytical and numerical studies of the dynamics of the optimal asset lifetime are studied. Breakthroughs result in irregularities in the asset lifetime.

**√IPENZ 28/15 Using humor and improve skills to thrive**

Gesell, I. Journal for Quality & Participation, Volume 32 Issue 2 (July 2009) Pages 7-10.

Humour and improving skills can help to overcome problems. When feeling anxious, the way to advance is to move from anxiety to fear as fear is objective. The author holds that body tension and anxiety level can be lowered by thinking of something humorous, looking at a cartoon or simply beginning to laugh.

√IPENZ 28/16 Limits to effective leadership style and tactics in critical incident investigations.

Thomas, D and Bendoly, E. Project Management Journal, Volume 40 Issue 2 (June 2009) Pages 70-80.

Leadership has a critical impact on performance, but does operate nor can it be evaluated in isolation. This paper examines how project performance is affected by multiple leadership styles and shows that moderate mixes of leadership styles are beneficial.

√IPENZ 28/17 Leading parallel global virtual teams: Lessons from Alcoa.

Cordery et al. *Organizational Dynamics*, Volume 38 Issue 3 (2009) Pages 204-216, Collaborative structures, such as work and project teams, are a feature of contemporary organisational life. Nowadays the global virtual team (GVT) is on the rise and permeates all levels of organisational life. Different forms of GVTs are emerging, for instance the parallel GVT (pGVT), which is influenced by the growth of communities of practice and supported by internet-based communication technology. This paper focuses on Alcoa's experience of pGVTs –the advantages as well as the challenges as seen by the leaders who participated in the study.

√IPENZ 28/18 Personality testing: identify your top performers before you reduce your workforce.

Goldman, R. *Industrial Engineer*, Volume 41 Issue 9 (September 2009) Pages 41-

√IPENZ 28/19 Best before forty: The shelf life of an engineer

Kennedy, D. *Engineering Management Journal*, Volume 21 Issue 1; (March 2009) Pages 19-26

Once engineers reach their mid-40s, they exit the profession in large numbers. Managers should be concerned by this tacit knowledge that is leaving the company. Mature engineering graduates, both in and out of the profession, participated in semi-structured interviews. Factors that possibly explain the high attrition rate were identified, including lack of leadership for effective guidance. This information could be used by managers to help them to better retain mature engineers.

**√IPENZ 28/20 Can we lead and follow?**

Dixon, G. *Engineering Management Journal*, Volume 21 Issue 1 (March 2009) Pages 34-41

While the idea of leaders has been much covered in the literature, this paper seeks to explore the role of followers within the leadership development process. Research comparing attributes of leaders and followers are compared so as to provide recommendations for ameliorating the process of leadership development in engineering organisations.

Technical Aspects of Engineering

√IPENZ 28/21 Modelling of bonded post-tension concrete slabs in fire.

Ellobody, E. A. M. and Bailey, C. G. *Proceedings of the Institution of Civil Engineers : Structures and Buildings*, Volume 161, Issue SB6 (December 2008) Pages 311-323.

√IPENZ 28/22 Assessing MSW degradation by BMP and fibre analysis.

Zheng, B. et al. *Proceedings of the Institution of Civil Engineers : Waste and Resource Management*, Volume 160, Issue WR4 (November 2007) Pages 133-139.

√IPENZ 28/23 **Achieving durable repaired concrete structures: A performance-based approach.**

Matthews, S and Morlidge, J. Proceedings of the Institution of Civil Engineers : Structures and Buildings, Volume 161, Issue SB1 (February 2008) Pages 17-28.

√IPENZ 28/24 **Simplified fire design for composite hollow-section columns.**

Aribert, J. M. et al. Proceedings of the Institution of Civil Engineers : Structures and Buildings, Volume 161, Issue SB6 (December 2008) Pages 325-336.

√IPENZ 28/25 **Piloting the smart grid.**

Ahmad Faruqui, Ryan Hledik, Sanem Sergici. The Electricity Journal, Volume 22 Issue 7 (August-September 2009) Pages 55-69.

√IPENZ 28/26 **Impacts of the German Support for Renewable Energy on Electricity Prices, Emissions, and Firms.**

Thure Traber, Claudia Kemfert. The Energy Journal, Volume 30 Issue 3 (2009) Pages 155-178.

√IPENZ 28/27 **Wireless remote monitoring of cathodic protection systems.**

Stephensen, L et al. Materials Performance, Volume 48 Issue 6 (June 2009) Pages 36-41.

√IPENZ 28/28 **Building multimodal transit facilities : One clear step towards new transportation paradigm.**

White-Kjoss, A. Mass Transit, Volume 35 Issue 5 (July/August 2009) Pages 36-43.

√IPENZ 28/29 **Making cycling irresistible: Lessons from The Netherlands, Denmark and Germany.**

Pucher, J and Buehler, R. Transport Reviews, Volume 28 Issue 4 (July 2008) Pages 495-528.

√IPENZ 28/30 **Economic impact/forecast model of intelligent transportation systems in Michigan: An input output analysis.**

Farooq, U. Journal of Intelligent Transportation Systems, Volume 12 Issue 2 (April-June 2008) Pages 86-95.

√IPENZ 28/31 **Predicting the degradability of waste activated sludge.**

Jones, R et al. Water Environment Research, Volume 81 Issue 8 (August 2009) Pages 765-771.

√IPENZ 28/32 **Techno-economic evaluation of PHB production from activated sludge.**

Mudliar, S et al. Clean Technologies and Environmental Policy, Volume 10 Issue 3 (August 2008) Pages 255-262.

√IPENZ 28/33 The South Shropshire biowaste digester, UK.

Cheshire, M. Proceedings of the Institution of Civil Engineers : Waste and Resource Management, Volume 160, Issue WR1 (February 2007) Pages 19-26

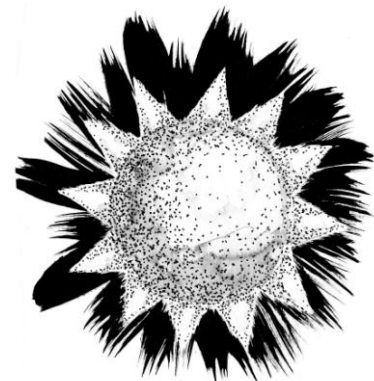
√IPENZ 28/34 Using the WCM for transient modeling of water distribution networks.

Dhandayudhapani Ramalingam, Srinivasa Lingireddy, Don J Wood..American Water Works Association Journal, Volume 101 Issue 2 (2009) Pages 75-

Special focus topic Solar Energy

√IPENZ 28/35 Advanced solar R&D: Combining economic analysis with expert elicitations to inform climate policy.

Baker, Haewon Chon, Jeffrey Keisler..Energy Economics, Volume 31, Supplement 1, (2009) Pages S37-S49.



design by Kat McAra

√IPENZ 28/36 Assessment of the future costs and performance of solar photovoltaic technologies in New Zealand.

April 2009. IT Power.Australia Ltd and Southern Perspectives Ltd. Published Ministry of Economic Development.

[Link to report online](#)

√IPENZ 28/37 An assessment of the Greek incentives scheme for photovoltaics.

Papadopoulos, A.and Karteris, M. Energy Policy, Volume 37 Issue 5 (May 2009) Pages 1945-1952.

√IPENZ 28/38 Auxiliary heating is on its way.

Trojek, S. Sun & Wind Energy, Issue 4 (2009) Pages 76-81.

An article about combining solar thermal energy systems with heat pumps.

√IPENZ 28/39 Boundless possibilities.

Ernst, W. Sun & Wind Energy, Issue 1 (2009) Pages 94-100.

An article about the advantages of building-integrated photovoltaics.

√IPENZ 28/40 Economic efficiency of solar hot water policy in New Zealand.

Gillingham, K. Energy Policy, Volume 37, Issue 9, (September 2009) Pages 3336-3347.

√IPENZ 28/41 Energy efficient, cost effective, passive solar house.

Mathias, J and Mathias, D. ASHRAE Transactions, Volume 115 Issue 1 (2009) Pages 419-426.

√IPENZ 28/42 Everything in a box.

Meyer, J. Sun & Wind Energy, Issue 4 (2009) Pages 50-56, 58-60, 62-63.

An article about trends and developments in solar circulation unit technology.

√IPENZ 28/43 An experimental solar home revisited.

Energy Design Update, Volume 29 Issue 2 (February 2009) Pages 1-4.

The article reports on a home in southern Vermont that uses an innovative system for storing summertime solar energy for winter heating.

√IPENZ 28/44 An innovation management approach for renewable energy deployment—the case of solar photovoltaic (PV) technology.

Kwok L. Shum, Chihiro Watanabe. Energy Policy, Volume 37, Issue 9 (September 2009) Pages 3535-3544.

**√IPENZ 28/45 The intermittency of wind, solar, and renewable electricity generators: Technical barrier or rhetorical excuse?**

Sovacool, B. Utilities Policy, Volume 17, Issues 3-4, September-December 2009, Pages 288-296.

√IPENZ 28/46 International policy issues regarding solar water heating, with a focus on New Zealand.

Rouleau, T. and Lloyd, C. R. Energy Policy, Volume 37, Issue 9 (September 2009) Pages 3336-3347.

√IPENZ 28/47 Megawatts of solar.

Nelsen, D. Transmission & Distribution World, Volume 61 Issue 6 (June 2009) Pages 24-32.

Initial megawatt-scale rooftop systems will lead to a massive addition of photovoltaic to the distribution grid in Southern Carolina.

√IPENZ 28/48 A new chapter in an old story.

Berner, J. Sun & Wind Energy, Issue 4 (2009) Pages 82-86.

This article describes the history of the solar thermal energy industry in Australia and future outlook.

√IPENZ 28/49 Penetration of solar power without storage.

Nathan Stodola, Vijay Modi. Energy Policy, In Press, Corrected Proof (2009)

√IPENZ 28/50 Profits or preferences? Assessing the adoption of residential solar thermal technologies.

Mills, B and Schleich, J. Energy Policy, Volume 37, Issue 10 (October 2009) Pages 4145-4154

√IPENZ 28/51 **Public demonstration projects and field trials: Accelerating commercialisation of sustainable technology in solar photovoltaics.**

Brown, J and Hendry, C. Energy Policy, Volume 37 Issue 7 (July 2009) Pages 2560-2573.

√IPENZ 28/52 **Solar grid parity.**

Lewis, D. Engineering & Technology, Volume 4 Issue 9 (23 September 2009) Pages 50-53.

√IPENZ 28/53 **Solar hot-water heating system.**

Atkinson, G and Colvin, T. ASHRAE Journal, Volume 51 Issue 9 (September 2009) Pages 44-53.

√IPENZ 28/54 **Solar power generation using SPS and wireless power transmission.**

Mohammed, S and Ramasamy, K. Proceedings of World Academy of Science: Engineering & Technology, Volume 39 (March 2009) Pages 413-418.



√IPENZ 28/55 **Assessing the long-term system value of intermittent electric generation technologies.**

Lamont, A. Energy Economics, Volume 30 Issue 3 (May 2008) Pages 1208-1231.

√IPENZ 28/56 **Beyond technology-push and demand-pull: Lessons from California's solar policy.**

Taylor, M. Energy Economics, Volume 30, Issue 6 (November 2008) Pages 2829-2854

√IPENZ 28/57 **Corrosion of materials used in the solar energy industry.**

Anti-Corrosion Methods and Materials, Volume 55 Issue 3 (2008) Pages 150-155.

√IPENZ 28/58 **Indoor illumination by solar light collectors.**

Sansoni, P. et al. Lighting Research and Technology, Volume 40 Issue 4 (December 2008) Pages 323-332.

√IPENZ 28/59 **Exploring new models of solar energy development.**

Asmus, P. The Electricity Journal, Volume 21 Issue 3 (April 2008) Pages 61-70.

The era of the highly centralized systems such as our current electricity grid may be coming to an end. It's time for citizens to get familiar with new concepts like "community solar" and "solar safety net."

√IPENZ 28/60 **Greening local energy: Explaining the geographic distribution of household solar energy use in the United States.**

Zahran, S. Journal of the American Planning Association, Volume 74 Issue 4 (Autumn 2008) Pages 419-434.

√IPENZ 28/61 **Modelling bulk water temperature in integrated collector storage systems.**
Currie, J et al. Building Services Engineering Research & Technology, Volume 29 Issue 3 (August 2008) Pages 203-218.

Describes a low cost integrated collector storage solar water heater (ICS-SWH).

√IPENZ 28/62 **Models for determination of solar energy potential.**

Bakirci, Kadir. Energy Exploration & Exploitation, Volume 26 Issue 5 (October 2008) Pages 281-292.

√IPENZ 28/63 **Models for the estimation of building integrated photovoltaic systems in urban environments.**

Clarke, P. et al. Proceedings of the Institution of Mechanical Engineers: Part A Journal of Power and Energy, Volume 222 Issue A1 (February 2008) Pages 61-67.



√IPENZ 28/64 **Performance of commercially available solar and heat pump water heaters.**

Lloyd, C. R. and Kerr, A. S. D. Energy Policy, Volume 36 Issue 10 (October 2008) Pages 3807-3813.

√IPENZ 28/65 **Performance of two photovoltaic arrays in the UK.**

Tovey, K. and Turner, C. Institution of Civil Engineers. Proceedings – Energy, Vol 161 Issue EN1 (February 2008) Pages 11-21.

√IPENZ 28/66 **Power grid balancing of energy systems with high renewable energy penetration by demand response.**

Stadler, I. Utilities Policy, Volume 16 Issue 2 (June 2008) Pages 90-98.

√IPENZ 28/67 **Profiting from clean energy: A complete guide to trading green in solar, wind, ethanol, fuel cell, power efficiency, carbon credit industries, and more.**

Asplund, R. W. and Hoboken, N. J. Wiley, 2008

√IPENZ 28/68 **Review of solar cooling technologies.**

HVAC&R Research, Volume 14 Issue 3 (May 2008) Pages 507-529.

√IPENZ 28/69 **Solar power in building design: the engineer's complete design resource.**

Gevorkian, P. New York: McGraw Hill, 2008

√IPENZ 28/70 **Tariffs can be structured to encourage photovoltaic energy.**

Wiser, R. et al. Natural Gas & Electricity, Volume 25 Issue 1 (August 2008), Pages 18-24

√IPENZ 28/71 **The adoption of domestic solar-power systems: Do consumers assess product attributes in a stepwise process?**

Faiers, A. et al. Energy Policy, Volume 35 Issue 6 (June 2007) Pages 3418-3423.

√IPENZ 28/72 **Behavioural responses to photovoltaic systems in the UK domestic sector.**

Keirstead, J. Energy Policy, Volume 35 Issue 8 (August 2007) Pages 4128-4141.

√IPENZ 28/73 **A bright future for concentrating solar power?**

Smith, L. Energy World, Number 352 (September 2007) Pages 20-21.

After a decade of little growth in the industry, CSP is making a comeback, according to the author.

√IPENZ 28/74 **Comparison of aluminium and stainless steel built-in-storage solar water heater.**

Asif, M. et al. Building Services Engineering Research & Technology, Volume 28 Issue 4 (November 2007) Pages 337-346.

√IPENZ 28/75 **Evaluating the limits of solar photovoltaics (PV) in electric power systems utilizing energy storage and other enabling technologies.**

Denholm, P. and Margolis, R. M. Energy Policy, Volume 35 Issue 9 (September 2007) Pages 4424-4433.

√IPENZ 28/76 **Improving natural ventilation in combined solar house with solar chimney and solar water collector.**

Zhou, X. et al. Journal of the Energy Institute, Volume 80 Issue 1 (2007) Pages 55-59.

√IPENZ 28/77 **Low-temperature heat storage for solar heating and cooling applications.**

Schweigler, C. et al. ASHRAE Transactions, Volume 113 Part 1 (2007) Pages 89-96.

√IPENZ 28/78 **A multicarrier modular photovoltaic grid-connected inverter with a new phase-shift rule.**

Wang, X. and Kazerani, M. Electric Power Systems Research, Volume 77 Issue 7 (May 2007) Pages 754-760.

√IPENZ 28/79 **Solar technologies and the building envelope.**

Torcellini, P. et al. ASHRAE Journal, Volume 49 Issue 4 (April 2007) Pages 14-16, 18, 22.

√IPENZ 28/80 **Photovoltaics research and development in Australia.**

Watt, M. et al. International Journal of Environmental Studies, Volume 63 Issue 6 (December 2006) Pages 777-790.

√**IPENZ 28/81 The value of solar: Prices and output from distributed photovoltaic generation in South Australia.**

Maine, T. and Chapman, P. Energy Policy, Volume 35 Issue 1 (January 2007) Pages 461-466. The Australian government's Solar Cities Program sees great value in so-called "cost-reflective pricing", code for valuing solar at pool prices. We test that proposition in South Australia. Ways in which the incentive to install distributed photovoltaic generation might be improved are discussed

√**IPENZ 28/82 Solar revolution: The economic transformation of the global energy industry.**
(2006) Travis Bradford. Cambridge, USA: MIT.

√**IPENZ 28/83 Solar thermal energy systems in Australia.**

Lovegrove, K. and Dennis, M. International Journal of Environmental Studies, Volume 63 Issue 6 (December 2006) Pages 791-802

√**IPENZ 28/84 Solar water heating guidebook: A technical guide for building industry professionals.**
(2006) Wellington: Energy Efficiency and Conservation Authority.

√**IPENZ 28/85 Solar heating systems for houses: A design handbook for solar combisystems.**
Weiss, W. London: James & James, 2003.

√**IPENZ 28/86 The solar economy: Renewable energy for a sustainable global future.**
Scheer, H. London, U.K.: Earthscan Publications Ltd, 2002.



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