

BIBLIOINFORMA

Número Especial
24, abril 2007

Bienvenidos al BOLETÍN INFORMATIVO elaborado por el **Grupo Bibliometría** de la Agencia de Energía Nuclear y Tecnologías de Avanzada (AEN-TA).

Este número esta dedicado a informar sobre el respaldo informativo con que cuenta el Grupo de Gestión del Conocimiento en Energía en función del frente de Energía en el país.

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Biomass and Bioenergy

vol. 31, n. 4, April 2007

1. Título: A full economic analysis of switchgrass under different scenarios in Italy estimated by BEE model.
Autores: A. Monti, S. Fazio, V. Lychnaras, P. Soldatos and G. Venturi
2. Título: Using a decision support system to optimize production of agricultural crop residue Biofeedstock.
Autores: Reed L. Hoskinson, Ronald C. Rope and Raymond K. Fink
3. Título: Above-ground biomass production and nutrient accumulation in young stands of silver birch on abandoned agricultural land.
Autores: Veiko Uri, Aivo Vares, Hardi Tullus and Arno Kanal
4. Título: A new feller-buncher for harvesting energy wood: Results from a European test programme.
Autores: Raffaele Spinelli, Emmanuel Cuchet and Philippe Roux
5. Título: Comparison of wet and dry corn stover harvest and storage.
Autores: Kevin J. Shinnars, Benjamin N. Binversie, Richard E. Muck and Paul J. Weimer
6. Título: Characterization of bio-oils in chemical families.
Autores: M. Garcia-Perez, A. Chaala, H. Pakdel, D. Kretschmer and C. Roy
7. Título: Characterization of tar from sawdust gasified in the pressurized fluidized bed.
Autores: YuHong Qin, HaiFeng Huang, ZhiBin Wu, Jie Feng, Wenying Li and KeChang Xie
8. Título: Enhanced biohydrogen production from cornstalk wastes with acidification pretreatment by mixed anaerobic cultures.
Autores: Mao-Lin Zhang, Yao-Ting Fan, Yan Xing, Chun-Mei Pan, Gao-Sheng Zhang and Jiunn-Jyi Lay

Cogeneration & On-Site Power Production Magazine

vol. 8, n. 2, March 2007

Regulars

From the Publishers

Europe stands at a decisive point in terms of the future energy supply. Across the Member States, existing power stations - coal and nuclear - are ageing and will soon need to be retired.

Comment

While climate change may still be grist for late-night comedians, this humour is starting to be replaced by more serious debate, dialogue and acceptance around the world.

WADE Pages

WADE IN ACTION

WADE's latest research report examines the cement sector, which accounts for 5% of global CO2 emissions.

Perspective

The seeds of growth - how biomass CHP could dominate energy development in Lithuania and other Baltic states

Great changes are expected in Lithuania's energy sector over the years following the country's accession to the European Union on 1 May 2004.

Features

Germany's cogeneration sector is at a turning point.

Bracing for volatile times - strategies towards natural gas price stability

Volatile natural gas prices present significant challenges for developers of CHP projects - fuel price exposure typically leads end-users to demand shorter paybacks.

Gas turbines are available across a wide range of power from a few kilowatts to utility-sized units larger than 300 MW for operation in combined-cycle power plant.

An emerging light - Thailand gives the go-ahead to distributed energy

Thanks to regulations launched on 7 December last year, decentralized electricity (DE) generation in Thailand promises to be considerably more profitable than it has in the past.

Alternative energy sources can potentially help fulfil the acute energy demand and sustain economic growth in many regions of the world.

Degrees of efficiency - how to reduce Europe's use of fossil fuels for heating and cooling

Europe wastes about the same amount of heat in energy conversion and inefficient end-use patterns as it actually makes use of.

Chemical reaction - an energy-intensive industry finds the solution in CHP

Rising living standards in many parts of the world mean rising energy consumption and CO2 emissions.

Project Profile

From microchip to coal mine - applications of gas-fuelled trigeneration sets in Europe

Two trigeneration plants serving very different host sites in Europe illustrate the advantages of producing not just heat and power from on-site cogeneration plants, but, with additional cooling plant, cooling energy too.

Policy Update

UK energy policy - a load of hot air when it comes to heat?

Heat has been largely ignored by energy policymakers in the UK and elsewhere, yet three-quarters of energy used in the UK (transport

Solar energy materials and solar cells

vol.91, n.6, Marzo 2007

1. The effect of porphyrin inclusion on the spectral response of ternary P3HT:porphyrin:PCBM bulk heterojunction solar cells.
W.J. Belcher, K.I. Wagner and P.C. Dastoor
2. Experimental evaluation of V-trough (2 suns) PV concentrator system using commercial PV modules.
C.S. Sangani and C.S. Solanki
3. Synthesis and photovoltaic properties of novel PPV-derivatives tethered with spiro-bifluorene unit for polymer solar cells.
Sung Chul Kim, B. Vijaya Kumar Naidu, Seng-Kue Lee, Won-Suk Shin, Sung-Ho Jin, Seung-Jin Jung, Young-Rae Cho, Jong-Min Shim, Jin Kook Lee, Jae Wook Lee, et al.
4. Low-temperature deposition of transparent ZnO films by the ultrasonic-mediated stepwise method.
Xiang-Dong Gao, Xiao-Min Li, Wei-Dong Yu, Lei Li, Ji-Jun Qiu and Fang Peng
5. Evaluation of porous silicon carbide monolithic honeycombs as volumetric receivers/collectors of concentrated solar radiation.
Christos C. Agrafiotis, Ilias Mavroidis, Athanasios G. Konstandopoulos, Bernard Hoffschmidt, Per Stobbe, Manuel Romero and Valerio Fernandez-Quero
6. Effect of S/In concentration ratio on the physical properties of AgInS₂-sprayed thin films.
Z. Aissa, M. Amlouk, T. Ben Nasrallah, J.C. Bernède and S. Belgacem
7. Microcrystalline silicon deposited at high rate on large areas from pure silane with efficient gas utilization.
B. Strahm, A.A. Howling, L. Sansonnens, Ch. Hollenstein, U. Kroll, J. Meier, Ch. Ellert, L. Feitknecht and C. Ballif
8. Optical investigation of the hydrogenation and dehydrogenation mechanisms of evaporated MgNi films.
Jürgen Ell, Andreas Georg, Markus Arntzen, Andreas Gombert, Wolfgang Graf and Volker Wittwer
9. Effect of electrolytes on the photovoltaic performance of a hybrid dye sensitized ZnO solar cell
Poonam Suri and R.M. Mehra
10. Micro-structured reflector surfaces for a stationary asymmetric parabolic solar concentrator.
Johan Nilsson, Ralf Leutz and Björn Karlsson
11. Metal silicide-mediated microcrystalline silicon thin-film growth for photovoltaics.
Joondong Kim and Wayne A. Anderson

Renewable Energy

vol.32, n.3, Marzo 2007

1. Study on solar/waste heat driven multi-bed adsorption chiller with mass recovery.
M.Z.I. Khan, B.B. Saha, K.C.A. Alam, A. Akisawa and T. Kashiwagi
2. Equipment arrangement planning of a fuel cell energy network optimized for cost minimization.
Shin'ya Obara
3. Power and thrust measurements of marine current turbines under various hydrodynamic flow conditions in a cavitation tunnel and a towing tank.
A.S. Bahaj, A.F. Molland, J.R. Chaplin and W.M.J. Batten
4. Design, construction and study of a hybrid solar food processor in the climate of Costa Rica.
Shyam S. Nandwani
5. Upfront resource requirements for large-scale exploitation schemes of new renewable technologies.
P.D. Lund
6. Analysis of directional meteorological data by means of cylindrical models.
Isidro A. Pérez, M. Ángeles García, M. Luisa Sánchez and Beatriz de Torre
7. Modification of commercial briquetting machine to produce 35 mm diameter briquettes suitable for gasification and combustion.
R.N. Singh, P.R. Bhoi and S.R. Patel
8. Improved underground heat exchanger by using no-dig method for space heating and cooling.
Yasuhiro Hamada, Makoto Nakamura, Hisashi Saitoh, Hideki Kubota and Kiyoshi Ochifuji
9. Influence of the aerothermic parameters and the product quantity on the production capacity of an indirect solar dryer
S. Youcef-Ali and J.Y. Desmons
10. Feasibility study of Jatropha seed husk as an open core gasifier feedstock.
D.K Vyas and R.N.Singh
11. Analysis of two-component mixture Weibull statistics for estimation of wind speed distributions.
J.A. Carta and P. Ramírez
12. A new multibody modelling methodology for wind turbine structures using a cardanic joint beam element.
Xueyong Zhao, Peter Maißer and Jingyan Wu

Renewable and sustainable energy reviews

vol.11, n.2, Febrero 2007

1. Past, present and future status of electricity in Turkey and the share of energy sources.
Harun Kemal Ozturk, Ahmet Yilanci and Oner Atalay
2. Review of design conditions applicable to offshore wind energy systems in the United States.
J.F. Manwell, C.N. Elkinton, A.L. Rogers and J.G. McGowan
3. Flywheel energy and power storage systems
Björn Bolund, Hans Bernhoff and Mats Leijon
4. Embedded energy and total greenhouse gas emissions in final consumptions within Thailand.
Bundit Limmeechokchai and Pawinee Suksuntornsiri
5. Environmental effects of energy policy in sicily: The role of renewable energy.
Marco Beccali, Maurizio Cellura and Marina Mistretta
6. Solar air conditioning in Europe—an overview.
Constantinos A. Balaras, Gershon Grossman, Hans-Martin Henning, Carlos A. Infante Ferreira, Erich Podesser, Lei Wang and Edo Wiemken
7. Assessment of cleaner electricity generation technologies for net CO₂ mitigation in Thailand.
Bundit Limmeechokchai and Pawinee Suksuntornsiri
8. Bioenergy from landfill gas (LFG) in Taiwan
W.T. Tsai
9. Technological system and renewable energy policy: A case study of solar photovoltaic in Taiwan.
Y.H. Huang and J.H. Wu
10. Investigation of challenges to the utilization of fuel cell buses in the EU vs transition economies.
Fengzhen Chen, T.R.C. Fernandes, Maria Yetano Roche and Maria da Graça Carvalho

Energy and buildings

vol. 39, n.3, Marzo 2007

1. Energy use in the life cycle of conventional and low-energy buildings: A review article.
I. Sartori and A.G. Hestnes
2. Bayesian Network model for the design of roofpond equipped buildings.
B. Naticchia, A. Fernandez-Gonzalez and A. Carbonari
3. Enhanced energy conservation in houses through high performance design.
J. Smeds and M. Wall
4. Description of ParaSol v3.0 and comparison with measurements.
Bengt Hellström, Hasse Kvist, Håkan Håkansson and Helena Bülow-Hübe
5. The development of reference values for energy certification of buildings in Lithuania.
Vytautas Stankevicius, Jurate Karbauskaite and Edmundas Monstvilas
6. Energy performance of a cooling plant system using the inverter chiller for industrial building.
Young-hak Song, Yasunori Akashi and Jurng-Jae Yee
7. Modeling of phase change material peak load shifting.
C.K. Halford and R.F. Boehm
8. Evaluation of energy efficient design strategies for different climatic zones: Comparison of thermal performance of buildings in temperate-humid and hot-dry climate.
Z. Yılmaz
9. Numerical and experimental analysis of a passive room-dehumidifying system using the sorption property of a wooden attic space.
N. Areemit and Y. Sakamoto
10. Three-years operation experience of a ground source heat pump system in Northern Greece.
A. Michopoulos, D. Bozis, P. Kikidis, K. Papakostas and N.A. Kyriakis
11. New external convective heat transfer coefficient correlations for isolated low-rise buildings.
Marcelo G. Emmel, Marc O. Abadie and Nathan Mendes
12. Assessing energy performance in the latest versions of Hong Kong Building Environmental Assessment Method (HK-BEAM).
W.L. Lee, F.W.H. Yik and J. Burnett
13. Economic feasibility of thermal energy storage systems.
B.A. Habeebullah
14. The most efficient position of shading devices in a double-skin facade.
Elisabeth Gratia and André De Herde
15. Comparison between ASHRAE and ISO thermal transmittance calculation methods.
Petar Blanusa, William P. Goss, Hartwig Roth, Peter Weitzmann, Claus F. Jensen, Svend Svendsen and Hakim Elmahdy