



Decentralized Energy Monthly:

A Global Roundup of Decentralized Energy and Distributed Generation News

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June 2009

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WADE in Action

Wade Southern Africa Launch Meeting Held

WADE Sets Course of Expansion of Decentralized Energy on the African Continent

Johannesburg, South Africa - [WADE](#), in collaboration with Wits University, hosted a meeting to discuss the potential for decentralized energy technology to play a much more significant role in the energy future

of the Southern African region. The discussion focused on the technical and policy challenges for greater deployment of distributed power solutions in the region.

Dr. Ruth Rabinowitz, MP, who spearheaded passage of South Africa's new feed-in tariff policies, discussed the potential for the feed-in tariffs to increase renewable energy supplies and the possibility of expanding the feed-in tariffs to other energy technologies, such as cogeneration. Prof. Willie Cronjé of the School of Electrical and Information Engineering, Wits University, threw light on some of the technical challenges facing distributed generation of electric energy. An action plan for further activities is being developed. If you are interested in getting more involved with WADE Southern Africa please contact David Glasser by email at David.Glasser@wits.ac.za.

WADE Canada Holds Inaugural Annual General Meeting and Clean Energy Strategy Session **Event reconnects Key Stakeholders in Canada's DE Industry**

Montreal, Canada - [WADE Canada](#) hosted its inaugural Annual General Meeting and Clean Energy Strategy session in Montreal. Twenty five industry leaders from Alberta, Ontario and Quebec actively participated in the sessions. The event was a huge success in terms of reconnecting with key stakeholders in Canada's DE industry.

The 2009 President's Report has been uploaded onto the website www.wadecanada.ca.

Three new Directors were added to our Board, Alderman Bob Hawkesworth of Calgary, Owen Schneider of Enbridge Inc and Benjamin Kennedy of GE Infrastructure's Energy team. The session provided valuable insights into the role that DE will play in Canada's energy future. We revisited the vision of the future and the challenges and enablers that exist to support sustainable industry growth. The WADE Canada team is now working with our facilitator, Bill Overend of Overview Business, to pull together the priority actions to build the business plan that will guide WADE Canada for the next 3-5 years. Please contact Anouk Kendall at akendall@wadecanada.ca for further information and details.

WADE Keynotes Perfect Power Conference

Role of Smart Grid Technology in the Renewable Energy Sector Highlighted

Burlington, USA - The Renewable Energy Vermont conference was an excellent opportunity for energy professionals, businesses, homeowners, local communities, utility personnel, and others interested in our energy future to explore how local distributed energy technologies can best be integrated into a modern smart electrical grid. David Sweet, Executive Director, [WADE](#) in his keynote discussed the role of decentralized energy in making the grid smarter. Other speakers included Michele Tihami, Global Policy and Regulatory Leader, IBM, Shawn Enterline, Vermont Energy Investment Corporation, David Halquist, Vermont Electric Co-op, and Bruce Bentley, Central Vermont Public Service.

WADE featured in the book 'Perfect Power'

Book discusses the power of Micro Grid Revolution

USA - 'Perfect Power' by authors Robert Galvin and Kurt Yeager has created quite an impact on the entire energy industry. They highlight institutions that are making progress in improving the energy scenario across the globe. [WADE](#) is one such institution that has earned recognition in the field of Decentralized Energy.

The book delineates how the Micro grid revolution will unleash cleaner, greener and more abundant energy. It offers some out-of-the-box solutions, investment options and innumerable job opportunities addressing the ever-rising energy problems.

The book discusses how to:

- Meet the rising demands for more electricity;
- Create "Perfect Power" that will withstand hurricanes, blackouts, terrorism and technical malfunctions;
- Implement clean, "green" alternatives by tapping the smart microgrid revolution;
- Live "off the grid" and become energy self-sufficient; and
- Identify and invest in exciting new companies and technologies.

JUCCCE Mayoral Training

Importance of CHP Application in China Highlighted

Beijing, China - [WADE](#)'s China Country Manager, Ju Ning, gave a presentation in Beijing during the Joint US-China Cooperation on Clean Energy (JUCCCE)'s Energy Smart City Training for mayors and senior executives of major Chinese firms. Mr. Ning's presentation was titled "CHP, an important technology on the carbon cost curve". He discussed the technology, impact, barriers, and outlook for combined heat power (CHP) applications in China. He also briefed the audience on [WADE](#)'s ongoing work in China in connection with the Asia Pacific Partnership and invited the meeting attendees to become involved with the project.

WADE Helps Chair POWER-GEN India and Central Asia

New Delhi, India - [WADE](#) was a part of the POWER-GEN India and Central Asia conference, held in New Delhi. Supported by the Ministry of Power and the Ministry of Heavy Industries and Public Enterprises, Government of India, the main focus of the conference was to tackle the immense challenges of providing power to one of the world's most populous countries and its second fastest growing major economy.

The conference provided an in depth overview of the challenges faced by the power sector, with panel contributions from key political and industry figures. Among the prominent speakers on Day 2 was

Sridhar Samudrala, Asia Director, WADE, who chaired the session on Distributed Power Generation. He spoke on how India's Decentralized Energy and CHP potential could become a possible solution for the country's power woes. This presentation was followed by two more important presentations by WAD! E member organizations - Wärtsilä and Capstone, who discussed their operations in India and how to increase the benefits of cogeneration and decentralized energy. Dr. Jacob Klimstra, Sr. Energy Specialist, Wärtsilä, presented a paper titled Local Electricity Generation - The Road out of a Crisis and Mr. Justin Rathke, Director - Policy & Business Development, Capstone Turbine Corporation, presented a paper titled Rural Electrification Using Biogas-Powered Microturbines: Tackling Cost and Other Challenges of the Indian Market.

WADE Participates in Arabian Power and Water Summit

Summit Focuses on the Unprecedented Challenges Faced by the Regional Power and Water Industry

Abu Dhabi, United Arab Emirates - [WADE](#) participated in this event held under the patronage of the Abu Dhabi Water & Electricity Authority (ADWEA). Currently the regional power and water industry is facing unprecedented challenges: a shortage of resources, project delays, fluctuating costs amidst the present global economic downturn.

Over the two days of the summit eight panel sessions explored key topics such as 'Achieving sustainable business development in a demanding environment' from both the developers' and contractors' perspectives. David Sweet, Executive Director, WADE, highlighted the importance of decentralized energy during a panel discussion chaired by Jacob Klimstra of Wärtsilä.

WADE Speaks at World Energy Council Workshop on Cleaner Fossil Fuel Systems

Role of Decentralized Energy for Africa Explored

Abuja, Nigeria - [WADE](#) participated in the World Energy Council workshop on Cleaner Fossil Fuel Systems, organized by Prof. A. S. Sambo, Vice -Chairman for Africa of the World Energy Council and Director General of the Energy Commission of Nigeria. In his opening address, Prof. Sambo highlighted the main objectives of the event - to provide an in-depth understanding of clean energy technologies, challenges and opportunities in Africa, to demonstrate that cleaner fossil fuel systems are essential to modern energy access and Africa's sustainable development, to enhance the awareness of the African energy sectors stakeholders, and to promote clean energy technology knowledge and deployment in Africa. David Sweet, Executive Director, WADE, gave a presentation on the various decentralized energy options for Nigeria.

WADE Attends World Energy Council Africa Regional Meeting

Event Focused on the WEC Africa Regional Action Plan

Abuja , Nigeria - [WADE](#) attended the recently held WEC Africa Regional meeting held in Nigeria. The event was held to assess the energy scene in the African region and update the WEC Africa Regional Action Plan 2008-2010. The highlights of the discussions were the WEF Partnership on Energy Poverty Action: status and planning activities, the progress of WEC Niger Project, and the presentation on Montreal 2010 World Energy Congress.

Natural Resources Canada (NRCan) National Consultation Session on Community Energy

Discussion on Community Energy Solutions Roadmap

Ottawa, Canada - [WADE Canada](#) participated in a national consultation session on community energy systems hosted by Natural Resources Canada. Kelsey Chegus, Program Coordinator, represented WADE Canada members at a half-day meeting with industry stakeholders in Ottawa. WADE Canada members also submitted written feedback that will be considered in the creation of the document.

Natural Resources Canada (NRCan) is currently working with provinces, territories and stakeholders on the development of a Community Energy Solutions Roadmap to be endorsed and made public by the Council of Energy Ministers in the fall of 2009. The Roadmap will provide a foundation for action that federal, provincial and territorial governments can take in concert with communities and stakeholders to facilitate implementation and encourage adoption of integrated community energy systems. These systems offer the potential to significantly reduce community level energy use and associated greenhouse gas emissions.

WADE participates in Mena Carbon Forum

Forum Assessed the CDM Market Potential in the MENA Region

Cairo, Egypt - Ihab Elmassry, Regional Director, [WADE](#) Middle East, represented WADE in this event, which combined carbon investment Trade Fair and conference and policy forum. As part of the event, the World Bank presented and discussed the outcomes of an analytical and technical study, which was conducted to review and assess the CDM market potential in the MENA region. The forum aimed at providing a platform for knowledge sharing on emerging scenarios of the MENA carbon market and showcasing MENA carbon projects. It allowed participants to learn about best regional CDM project implementation practices from project developers and independent specialists, covering a broad set of mitigation sectors and technologies, and piloting activities under the programmatic CDM.

WADE Endorsed EE Global Forum and Exposition 2009

Event Discussed the Role of Energy Efficiency

Paris, France - [WADE](#) endorsed the Energy Efficiency forum held in Paris. The event saw political, academic, business, and NGO leaders gather at this premier energy and efficiency exposition. The forum put up an impressive line of sponsors and exhibitors, and an unparalleled agenda featuring more than 140 international business and government luminaries from over 26 countries

2009 DE Industry Survey

WADE Canada Wants Your Views!

Please click on the following link and log your confidential views. It will take only a few minutes. Your views will be collected independently and be given full consideration. Thank you!

[» 2009 DE Industry Survey](#)

WADE Thailand Country Manager Bags First Prize in Clean Energy Business Plan Competition

Business Plan of SPRING-1 emerged the winner

Singapore - [WADE](#) Thailand's Country Manager Alan Dale Gonzales was awarded the Clean Technology Initiative (CTI) Clean Energy Financing Award. The award was given in recognition for winning the First Prize in the Business Plan Competition organized for clean energy projects in South-East Asia. The Business Plan of SPRING-1, which is a decentralized energy system, emerged as the best among 60 projects submitted from all over South-East Asia. Alan Dale Gonzales, who presented the Business Plan during the event, bested 10 other presenters to emerge as the winner of the Competition.

The citation in the plaque given in recognition of this achievement states that SPRING-1 "was deemed to be one of the most promising clean energy investment opportunities in the ASEAN region."

[Calling WADE Members - How Can We Help You?](#)

[In Search of WADE Research Projects and Proposals](#)

WADE has a long history of helping public and private sector institutions around the world understand and realize Decentralized Energy (DE) benefits and opportunities through its tradition of thorough and comprehensive research. In addition to WADE's regular publications, reports and market studies, WADE has participated in successful projects, conferences and educational campaigns, working with a range of governments, national and international organisations. WADE's contribution to these projects includes:

1. **WADE Economic Model** - computer modeling of the economic and environmental impacts of DE in a specified area
2. **DE Potential Analysis** - assessment of the potential for developing DE in a specified area
3. **DE Policy Best Practice Review** - international overview of policy mechanisms for DE
4. **DE Technology Status Review** - overview of the performance and market-readiness of DE technologies
5. **DE Project Best Practice Case Studies** - overview of successful DE case study projects worldwide relevant to a specified area
6. **Education and Outreach Programs focusing on DE, environment and economic efficiency**

Are you aware of any opportunities where WADE can bring its expertise to bear? Please contact **WADE** and let us know how we can help your company or organization.

Authors and Articles Needed for COSPP

USA - **WADE** serves as consulting editor of Cogeneration and On-Site Power Production (COSPP) Magazine (see: www.cospp.com) and is in need of high-quality articles for publication. If you would like to contribute an article please send your ideas to Dr. Birol Kilkis via email at bkilkis@localpower.org. Publication in COSPP provides an outstanding global platform to disseminate your research and case studies. In addition, if you would like to help us secure a Perspective article from a global energy leader on relevant policy and regional market developments, that also would be of great interest. Don't forget, you can subscribe to COSPP at no charge by going to www.cospp.com.

Calendar

June 2009

17-19 June	Indo Renergy 2009 Expo and Forum Jakarta, Indonesia Info
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28 June	IDEA 100th Annual Conference & Trade Show Hyatt Regency Crystal City, VA, USA Info
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July 2009

27-30 July	Energy Efficiency - Power Tech 2009 Conference - IBC Asia Singapore, Singapore Info
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October 2009

05-09 October	24th World Gas Conference Buenos Aires, Argentina Info Look for WADE at this event
07-09 October	Power-Gen Asia Bangkok, Thailand Info Look for WADE at this event
19-21 October	18th IAGT Symposium Banff, Canada Info
20-22 October	Vancouver Gaining Ground 2009 Conference Vancouver, Canada Info

December 2009

08-10 December	Power-Gen International Las Vegas, USA Info Look for WADE at this event
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Global Briefs

Climate and Clean Energy Framework Established by Mexico and U.S.

Mexico - During their discussions in Mexico City, President Obama and Mexico's President Calderon announced plans to strengthen and deepen bilateral cooperation by establishing the US-Mexico Bilateral Framework on Clean Energy and Climate Change. The Bilateral Framework establishes a mechanism for political and technical cooperation and information exchange, and to facilitate common efforts to develop clean energy economies. It will also complement and reinforce existing work between the two countries.

The Bilateral Framework will focus on: renewable energy, energy efficiency, adaptation, market mechanisms, forestry and land use, green jobs, low carbon energy technology development and capacity building. The framework will also build upon cooperation in the border region promoting efforts to reduce greenhouse gas emissions, to adapt to the local impacts of climate change in the region, as well as to strengthen the reliability and flow of cross border electricity grids ! and by facilitating the ability of neighboring border states to work together to strengthen energy trade.

Read the full [article](#).

GE Energy's Jenbacher Biogas Engines Expanding the Use of Agricultural Waste As Renewable Power Source

Austria - With the international community seeking to expand the development of different types of renewable energy, more farmers in North America and Europe are using GE Energy's ecomagination-certified Jenbacher engines to generate onsite power from biogas created from converted animal waste and other agricultural organic materials. "In the face of dwindling reserves of fossil fuels, this solution provides an attractive, renewable alternative. The use of agricultural waste to produce biogas gives farms another way to reduce their operational costs and greenhouse gas emissions," said Prady Iyyanki, CEO of GE Energy's Jenbacher gas engine business.

Read the full [article](#).

Iberdrola Signs a 328 Mln Euro Contract in Lithuania

Lithuania - Spanish power utility Iberdrola signed a 328 million euro (\$432 million) contract to build a combined heat and power gas fired turbine in Lithuania, local power plant operator Lietuvos Elektrine said on Friday.

Iberdrola will build a new 444 megawatt unit by 2012, Lietuvos Elektrine said in a statement.

Read the full [article](#).

Cummins Adds 6 MW On-site Power System to Hospital

Georgia - Cummins Power Generation provided three 2 MW/4160VAC diesel generator sets to a 1.2 million-square-foot hospital in Georgia. The generators include a paralleling system to provide emergency/standby power from a 4,700-square-foot central energy plant. The new equipment was interfaced to existing transfer switch equipment from several different manufacturers. WellStar Kennestone Hospital began planning for the new energy facility with the addition of a new 200,000-square-foot cardiac care center. Today, the Cummins generators are housed in the energy plant, about 1,000 feet from the main facility to optimize patient comfort and power distribution to the hospital.

Read the full [article](#).

Taiwan to Invest Millions in Green-energy R&D

Taiwan - The Executive Yuan, Taiwan's cabinet, passed a proposal on Thursday to invest at least NT\$20 billion (US\$588 million) in green-energy technology research and development and NT\$25 billion (US\$735 million) in green-energy equipment installations and subsidy funds over next five years. The project aims to elevate the revenue of the island's green-energy industry to NT\$1.5 trillion (US\$34 billion) in 2015, accounting for 6.6 percent of the total revenue of Taiwan's manufacturing industry, based on last year's NT\$160.3 billion (US\$4.7 billion). Officials hope to create 110,000 jobs with the investment.

Read the full [article](#).

Siemens Bags Rs 790 Mn Worth Order

Qatar - Siemens today announced that its energy sector has received an order for approximately Rs 790 million. The said order is for the supply of 11kv air insulated switchgear from the company's technology partner Qatari German Switchgear Co. WLL for supply to Qatar General Electricity and Water Corporation (KAHRAMAA) distribution network.

Read the full [article](#).

Spain Plans Changes to Renewable Energy Aid Rules

Spain - Spain plans to change rules on state aid for renewable energy generators, an industry ministry spokesman said on Friday, arousing fears in the sector that its lucrative subsidies may shrink.

Under a new regulatory framework that has not yet been finally decided, the government could also change its targets for installed wind capacity, which are now at 20 gigawatts by 2012, rising to 40 GW in 2020, the spokesman said.

The government took a step toward the new regulatory system on Thursday by announcing creation of a register for renewables projects that developers must sign to receive subsidies.

Read the full [article](#).

Over 1,000 Buildings for Energy-saving Refurbishment

Ireland - MORE THAN 1,000 large-scale public buildings are to be refurbished to reduce energy consumption by up to one third, and all new housing is to be "carbon neutral" by 2020, the Government announced. The targets, among some 90 separate measures aimed at creating a "greener Ireland", are intended to save the State €1.6 billion annually in energy costs by 2020. This is to be achieved through a 20 per cent overall reduction in energy wastage, including a 33 per cent reduction from the public sector. The intention is also to shift Ireland's energy requirement from fossil fuels to more secure and ultimately cheaper renewable energies.

Read the full [article](#).

Ormat Technologies Q1 Profit Rises; Total Revenues Up 44%

Turkey - Ormat Technologies Inc. reported first quarter net income attributable to stockholders of \$14.59 million or \$0.32 per share, compared to \$10.06 million, or \$0.24 per share in the same period a year ago. Quarterly total revenues rose 44% to \$99.9 million from \$69.4 million in the last year quarter. Electricity revenues for the quarter were \$62.6 million, an increase of 5.2% from \$59.5 million in the last year quarter. Revenues from the Products Segment were \$37.3 million, compared to \$9.9 million in 2008. Read the full [article](#).

Metso to Supply Biomass-Fired Boiler to Polish Power Plant

Poland - Finnish industrial group Metso will supply PGE Zespól Elektrowni Dolna Odra with a biomass-fired power boiler for its combined heat and power plant located in Szczecin on the north-west coast of Poland.

Metso has said that the Szczecin green energy plant is expected to be the largest biomass energy project in central Europe and it has received support from the Szczecin Province Fund for Environmental Protection and Water Management, as well as the National Fund for Environmental Protection and Water Management.

Read the full [article](#).

Romania's Largest Biomass Cogeneration Plant Opens in Radauti

Romania - Austrian Holzindustrie Schweighofer company on Thursday opened the largest biomass cogeneration plant in Romania in Radauti, the northeast county of Suceava. The plant has a total capacity of 22 MW, 17 MW of heat and 5 MW of electricity, and is the outcome of a 20-million-euro investment.

Read the full [article](#).

GE Energy, Notos Meet to Discuss Wind Energy in Serbia

Serbia(Yugoslavia) - Executives from GE Energy met with Serbian wind energy company Notos in Belgrade for an exchange of experience and knowledge in the area of wind data collection, and to consider the future of wind power development in the Republic of Serbia.

The two-day meeting was initiated by GE and organized within the context of the GE Strategy for South Eastern Europe. The appropriate and skilled expansion of wind energy into the South East European electricity market was discussed, providing a foundation for GE to work in partnership with Notos in establishing the necessary framework for the development and execution of future alternative energy projects.

Read the full [article](#).

Australian PM Outlines Solar Energy Plans

Australia - The Australian Prime Minister Kevin Rudd said on Sunday his government's 1.4 billion-Australian-dollar (1.05 billion U.S. dollars) investment in large solar power farms would help make the country a leader in solar energy.

While touring the Liddell power station in the New South Wales Hunter Valley, Rudd outline how the 1.4 billion, announced in last week's budget, would be spent.

Up to four solar power plants, with a combined power output of one coal-fired power station, will then be constructed, and the solar power plants will have to be built close to the electricity grid and in areas with plenty of sunshine,

Read the full [article](#).

Rasoya Proteins to Commission Power Generation from Captive Power Plant in July 2009

India - Rasoya Proteins Ltd has announced that the Company is in the pre commissioning stage of the Co-generation Captive Power Plant of 10 MW at Taluka Wani, District Yavatmal (MS). The Company expects to start power generation from July 2009. Further the Company has executed Power Purchase Agreement (PPA) with Tata Power Trading Company Ltd Mumbai for sale of surplus power being generated from the Power Project.

Read the full [article](#).

Harper Government Launches \$1-Billion Clean Energy Fund, Invests in New Technology, Creates Jobs

Canada - Canada will further demonstrate its leadership in the development and advancement of clean energy technologies thanks to the launch of the \$1-billion Clean Energy Fund, announced today by the Honourable Lisa Raitt, Minister of Natural Resources, during an address to the University of Alberta. The Fund invests \$850 million in technology development and demonstration. This includes \$650 million for large-scale carbon capture and storage (CCS) demonstration projects and \$200 million for smaller-scale demonstration projects of renewable and alternative energy technologies.

Read the full [article](#).

South Africa Forms Energy Policy

South Africa - The South African Environment, Energy and [Treasury](#) Ministries are drafting a new government energy and [climate change](#) strategy to be unveiled by September. The document will form the basis of government climate change policy, leading to an overhaul of existing fiscal, regulatory and legislative regimes by 2012, aimed at capping carbon dioxide emissions by 2025.

The new climate change strategy will seek to overcome the structural ! and financial challenges facing

South African energy policy by balancing the medium-term need to eliminate the electricity generating shortfall with the long-term requirement to address climate change. This will involve the introduction of public subsidies, tax breaks and clearer policy goals designed to boost the contribution of renewables to the national energy mix.

Read the full [article](#).

Grants Available for Renewable Heating Systems

United Kingdom(Great Britain) - The Scottish Government has announced that funding has been made available to enable more businesses to use renewable heating and cut emissions.

In total 26 projects across Scotland have been awarded a share of £1.6million under the Scottish Biomass Heat Scheme.

The money is to install biomass heating systems and district heating systems in small businesses like hotels and offices.

Read the full [article](#).

Argentina Opens Bidding On Green Energy Projects Totaling 1GW

Argentina - Argentina's state-run energy company Enarsa this week opened bidding for multiple renewable-energy projects whose combined output will total 1 gigawatt. The projects, which aim to produce cheaper energy and reduce Argentina's reliance on non-renewable sources of power, call for the building of new wind, solar, geothermic, and biomass plants. The government expects 500 megawatts of the new power to be generated by wind turbines.

Government officials hope the new projects, which each offer 15-year contracts, will lead companies to invest around \$2.5 billion in the sector.

Read the full [article](#).

Fortum Opens New Combined Heat and Power Plant in Estonia

Estonia - Fortum Tartu, subsidiary of Finnish Fortum, opened today a new combined heat and power plant in Tartu, writes Äripäev.

The value of the investment is around EUR 60 million. The new power plant will use biofuels and local peat as fuels. Production capacity will be approximately 52 megawatts (MW) heat and 25 MW electricity. The new plant is needed to cover the growing heat demand in the City of Tartu and surrounding areas, and the growing electricity demand in Estonia. It will replace gas-based heat production with local biofuels and peat.

Read the full [article](#).

Capstone Receives Order for C200 Microturbines for China Southern Power Grid Pilot Project

China - Capstone Turbine Corporation, the world's leading clean technology manufacturer of microturbine energy systems, today announced that it has received an order for three C200 microturbine systems for China Southern Power Grid Co., Ltd. ("CSG").

The Chinese Science Academy proposed the CCHP pilot project, which will produce 570-kilowatts of clean electricity and about 1,000-kilowatts per hour of thermal energy for the dispatch building. The electricity will supplement power from the local utility, while the exhaust-heat energy generated by the compact C200 microturbines will be captured and run through an absorption chiller to produce air conditioning.

Read the full [article](#).

World Bank Approves \$125-million Loan for Belarus Energy Efficiency Project

Belarus - The Board of Executive Directors of the World Bank has approved a \$125-million loan to Belarus to support a \$193.10-million project aimed at improving the energy efficiency of heat and power generation in selected towns. "This is the largest loan we have made to Belarus to date," Martin Raiser, country director for Ukraine, Belarus and Moldova, was quoted as saying. "We support the Belarusian authorities in their efforts to increase energy security, reduce carbon emissions, and lay the foundation for competitiveness and growth through improved energy efficiency." The project's main objective is the conversion of six heat-only-boiler plants to combined heat and power plants in different localities across Belarus. Modern combined cycle gas turbines and gas engines that will give an additional 90 MW of electrical capacity will be installed. The efficiency of heat and power generation at the project sites is expected to increase by about 30 percent. It is estimated that about 90 million cubic meters of natural gas will be saved annually, which would lead to the annual reduction of about 165,000 tons of carbon dioxide emissions.

Read the full [article](#).

Steam Turbine Technology Joins GE Energy Portfolio

USA - GE Energy's HEAT* (High Efficiency, Advanced Technology) steam turbine, designed to improve the efficiency and environmental performance of power plants, has been approved for addition to the ecomagination product portfolio after completing GE's rigorous ecomagination product review (EPR) process.

"As illustrated by our HEAT technology, GE continues to improve our line of steam turbines, in response to industry requirements for more efficient, reliable power production," said Trevor Bailey, general manager of GE Energy's steam turbine business. "We are extremely pleased with the strong performance of this technology in its first seven applications and its inclusion in the ecomagination portfolio."

Read the full [article](#).

Philippines Implements Renewable Energy Incentives Including Hydro

Philippines - Philippines Energy Secretary Angelo Reyes signed rules May 25, 2009, implementing legislation to encourage investments in renewable energy including hydropower and ocean energy.

The rules implement the Renewable Energy Act enacted in December, providing tax incentives to investors in hydropower and ocean, solar, geothermal, and biomass energy. Incentives include a seven-year income tax holiday, duty-free importation of equipment, and a zero percent value-added tax rate for power sales.

Although a third of the Philippines' energy mix is renewable energy, including hydro and geothermal energy, the government plans to increase that to 40 percent over 10 years. State-run Philippines News Agency said May 24 the National Economic and Development Authority Cabinet Committee approved a 6.2 billion peso (US\$131 million) Renewable Energy and Climate Change (REACH) loan facility of the Land Bank of the Philippines.

Read the full [article](#).

China Drafts Energy Stimulus Plan

China - A preliminary draft for China's energy stimulus plan has been done, but the contents and the time of the bill's launch have not been revealed, a senior energy official said here Monday.

The National Energy Administration has been soliciting opinions from local governments, related authorities, industry players and specialists since April 2, Liu Qi, deputy head of the administration, told a press conference Monday. According to the vice premier, fiscal and tax incentives should be strengthened to promote application of new energy and environmental protection technology.

Read the full [article](#).

Wartsila Engines Running on Biofuels

Finland - In recent tests conducted at the VTT technical research centre in Espoo, Finland, a Wärtsilä Vasa 4R32 engine was operated on jatropha oil, fish oil and chicken oil, the company says. The company performed the tests to demonstrate the ability of its engines to run on a range of vegetable and animal-based oils. Vesa Riihimäki, Vice President, Power Plant Technology commented: "Liquid biofuels represent an emerging market. We see that fuel supply infrastructures for crude vegetable oils are being developed at an increasing pace, suggesting that the availability of such fuels will be vastly extended during the next 5 to 10 years."

Read the full [article](#).

Geothermal Industry Applauds President Obama's Announcement, Says Stimulus Funds Will Help Spur Economic Recovery

USA - The Geothermal Energy Association today applauded President Obama's announcement of \$350 million in new investment in geothermal energy. "There are more geothermal power projects under development today than have been built in the history of the United States," according to Karl Gawell, GEA's Executive Director. "This stimulus funding will help make sure those projects are successfully completed and will help develop the technology needed to bring tens of thousands of additional megawatts on line," he added.

According to the GEA's March 2009 Industry Update, there were 126 new geothermal projects under development with the potential to put 5,500 MW of new geothermal power on line, equivalent to 15,000 MW - 20,000 MW from wind turbines or enough power for 5.5 million California homes, according to GEA. New geothermal power projects were identified in Alaska, Arizona, California, Colorado, Florida, Hawaii, Idaho, Nevada, New Mexico, Oregon, Utah, and Washington.! GEA estimates that bringing these projects on line could help economic recovery by spurring as many as 100,000 new jobs.

Read the full [article](#).

DOE Announces \$256M in Grants for Industrial, IT Energy Efficiency

USA - The Department of Energy wants America's manufacturing and information technology sectors to do more with less energy, and it's **directing \$256 million in stimulus package grants** to help out.

The funding announced Monday includes \$50 million for projects that can lead to more energy efficient IT and communication technology, and another \$50 million for developing advanced materials for clean energy technologies and energy-intensive processes.

But the biggest chunk is \$156 million for projects to install combined heat and power systems, waste energy recovery systems and more efficient industrial equipment. The grants will be aimed at projects that can improve efficiency and control costs in both industrial and residential settings, the DOE announced.

Read the full [article](#).

Sunday Energy Forges New Ground in Israel with Ormat

Israel - Israel-based [Sunday Energy](#) said this week it inked a deal to build the largest rooftop solar installation in the Middle East.

At just 1 megawatt, the installation isn't huge by global standards. But in Israel, where total installed capacity at the end of 2008 was 1 MW, it's the beginning of a new solar market, said Sunday Energy founder and CEO Kobi Dinar.

Sunday is installing the solar system on about 15,000 square meters on top of a factory owned by Reno, Nev.-based geothermal developer [Ormat Technologies](#) in Yavneh, Israel. The project is expected to be completed in the first half of 2010, generating energy worth NIS 60 million (\$15.15 million) during the next

20 years through a power-purchase agreement with Israel Electric Cooperative, the state-owned utility that is the sole supplier of electricity in the country.

Read the full [article](#).

Gas Engine and Fuel Cell CHP Systems for Germany

Germany - The municipal utilities in the towns of Wolfen and Weimar in Germany are each to be supplied with a CHP plant from propulsion and power solutions company Tognum. The stations will be used to generate both electricity and heat ? each produces 1,999 kW of electrical and 2,206 kW of thermal output. And, apart from the CHP modules, the contracts extend to all connecting systems, including switchgear and engine technology, heating, exhaust and ventilation systems.

Read the full [article](#).

12 Pc Rise in Investment in India's Renewable Energy

India - India saw a 12 per cent rise in investment in clean renewable energy like wind, solar, biomass and small-hydro projects with USD 4.1 billion being pumped into this sector last year, according to a UNEP report.

The largest portion of investment went to wind sector, which grew at 17 per cent from USD 2.2 billion to USD 2.6 billion.

While investment in solar energy rose from USD 18 million in 2007 to USD 347 million in 2008, most of it was channelised to setting up module and cell manufacturing facilities.

Small hydro investment grew by about fourfold to USD 543 million in 2008, but biofuels' growth fell from USD 251 million in 2007 to USD 49 million in 2008.

Read the full [article](#).

Mombasa School Turns to Microgeneration

Kenya - A carbon offset firm and an electrical [power](#) manufacturer have teamed up to help a school in Kenya to replace its unsustainable oil and gas lamps with microgeneration systems.

CO2balance has collaborated with Berkshire-based NewtonZs Computer Systems to install solar panels and LED [lighting](#) in the Mombasa educational establishment, according to Electronics Weekly.

The latter company said that the microgeneration system will help the school to be more environmentally-friendly while also reducing its costs.

Read the full [article](#).
