



Decentralized Energy Monthly:

A Global Roundup of Decentralized Energy and Distributed Generation News

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October 2009

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WADE in Action

WADE APP Project Team Visits China

China - In conjunction with the Asia-Pacific Partnership (APP) project on Clean Development, the WADE China project team, Richard Sweetser, Bruce Hedman, and, Ju Ning recently traveled to China for

meetings in key cities, including Beijing, Shanghai, Nanjing, Shenyang, Chongqing, Chengdu, and Changsha. The APP is an innovative effort to accelerate the development and deployment of clean energy technologies formed by seven Asia-Pacific countries including Australia, Canada, China, India, Japan, Republic of Korea, and the United States. During this trip the WADE project team met various stakeholders on decentralized energy and combined heat and power (CHP) including governmental officials, enterprises, non-profit organizations, and universities. The team discussed current situations of DE and CHP in China, collected information on the potentials and barriers in China, as well as comments and suggestions from Chinese stakeholders. The team also visited numerous industrial facilities as part of their research effort during the trip. For further information please contact Ju Ning at jning@localpower.org.

WADE in Alliance with ICEED to Conduct Workshop in Nigeria

Nigeria - WADE, in cooperation with Christian Aid and the International Centre for Environment and Energy Development (ICEED), is conducting a research project on the application of decentralized energy in Nigeria using the WADE Economic model. The research findings will provide credible and authoritative evidence showing the financial, developmental, and environmental benefits of a decentralized energy system in Nigeria. This will inform a longer-term advocacy strategy, led by the Nigerian Climate Action Network and supported by Christian Aid, to promote the generation and use of decentralized clean energy. The strategy will target the Ministry of Energy, the House Committee on Climate Change, the Climate Change Commission, the Presidency and the private sector.

A workshop in Abuja is planned to:

1. Present results of the World Alliance for Decentralized Energy Economic Model Research for Nigeria
2. Share experiences on Decentralized Energy Development from other countries
3. Present Case Studies of Decentralized Energy Developments in Nigeria and Africa
4. Discuss steps to achieve a Decentralized Energy Legislation for Nigeria

If you are interested in attending the workshop and receiving a copy of the study when released, please send a message to support@localpower.org

Wade at Symposium of the Americas for Energy and Climate Change

Peru - Leaders from across the Western Hemisphere met in Port of Spain, Trinidad & Tobago for the Fifth Summit of the Americas. One of the proposals to emerge from the discussions in Trinidad & Tobago focused on ways to increase cooperation and collaboration in the hemisphere; a framework for an "Energy and Climate Partnership of the Americas."

In addition, WADE participated in the Symposium of the Americas for Energy and Climate Change held on June 15-16 in Lima, Peru. The event was the first follow on step of the Fifth Summit of Americas gathering policy makers - and the private sector - to discuss possible areas of cooperation and collaboration on the most critical energy issues facing the Western Hemisphere. Among the most

important subjects of discussion were: Energy Efficiency; Renewable Energy; Fossil Fuels; Energy Infrastructure; and, Energy Poverty. The objective of the Symposium was to identify concrete future steps for energy and climate cooperation in the Western Hemisphere.

WADE Country Manager for Peru, Katharine Fierro participated in the roundtable for investment in energy infrastructure and poverty alleviation. She addressed the role WADE has played globally in fostering decentralized energy projects suggesting the Peruvian Ministry of Energy to diversify interest to and invest in small scale energy projects which would bring in long term benefits.

The Peruvian Minister of Energy and Mines, Pedro Sanchez, and host of the event opened the first day conference referring to the objectives of the conference, major initiatives and plans from the Peruvian Ministry of Energy and Mines, highlighting the high caliber of the participants. Among other speakers was US Secretary of Energy, Steven Chu, who spoke about the US Law for Clean Energy and Security, renewables, carbon capture sequestration, and energy diversification.

At the two day conference government authorities from Argentina, Brazil, Canada, Colombia, Chile, Mexico, Belize, Peru, United States, Costa Rica, Uruguay, and Guyana discussed the initiatives that their respective governments were taking through programs to save energy leading to energy efficiency. For further information about WADE's activities in Latin America please contact Katharine Fierro at kfierro@localpower.org.

WADE at the Annual ASHRAE Conference

USA - The 2009 ASHRAE Annual Conference was held between June 20 and 24 in Louisville Kentucky. Gordon Holness, Fellow ASHRAE and the new President of ASHRAE for the 2009-2010 society year, opened the conference with the statement "Sustaining our future by Rebuilding Our Past: Energy Efficiency in Existing Buildings." Mr. Holness emphasized the fact that new buildings built every year represent only a miniscule portion of the entire building stock, in which most of the existing buildings are aging and energy inefficient. Therefore, carbon emissions reduction efforts have a much greater potential and opportunity in the existing building stock by increasing their efficiency. This effort definitely includes distributed power, distributed energy, district energy, and building retrofit efforts with micro cogeneration systems. WADE was represented by Dr. Birol Kilkis, a member of TC 1.10 Cogeneration Systems, who is working on an update of the ASHRAE Cogeneration Design Guide (1996). This guide is expected to accommodate new technologies and applications in this field. For further information please contact Birol Kilkis at bkilkis@localpower.org.

WADE Chairs DE Sessions at Power-Gen Asia 2009

Conference Focuses on the Power Generation, Transmission, and Distribution and the Renewable Energy Industry

Bangkok, Thailand - The PowerGen Asia was held in Bangkok Thailand from Oct. 7 - 8, 2009. The World Alliance for Decentralized Energy assisted in the program by Chairing several sessions relevant to Decentralized Energy. Mr. Sridhar Samudrala, Director Asia and Mr. Alan Dale Gonzalas, Thailand Country Manager participated extensively by chairing some of the most attended sessions.

Mr. Samudrala Chaired the Distributed Generation Session held on Oct 7, 2009. In the sessions, Titti Saksornchai, Engineer, Provincial Electricity Authority, Thailand discussed the Various planning for appropriate DG penetration with protection coordination consideration within EGAT. Mr. Sithiwoot Tongsrichantra, Managing Director, Proactive Energy Co. Ltd, Thailand demonstrated the protection coordination problems and solution for biomass cogeneration system connecting to PEA transmission network. Mr. Frederic Delaval, Senior Product Manager, GE Energy - Europe, France articulated the successful decentralized power applications in Asia. Ms. Wantana Somcharoenwattana, Business Development Manager, Wartsila, Singapore, showed the potential of decentralized generation in Thailand: CHP in hospitals.

The executives discussed the methods for:

- load and demand forecasting
- prioritizing generation demand options
- capacity acquisition strategies
- energy trading and contracting strategies
- power purchase agreements
- energy conservation and energy efficiency

WADE Holds a Side Event at Power-Gen 2009 on ADE Thailand Project

Enhancing Institutional Capacities for the Market Development of Decentralised Energy Systems in Thailand

Thailand - Enhancing institutional capacities for the market development of decentralised energy systems in Thailand Following the Power Gen Asia sessions, The Energy Conservation Center of Thailand (ECCT), World Alliance for Decentralised Energy (WADE), UK , and Full Advantage Co., Ltd (FA), Thailand organized a meeting on Oct. 7, 2009 funded by the European Commission (EC) to further the Thailand-EC Cooperation Facility.

The meeting discussed the cooperation between the EC and Thailand to develop a Decentralized MASTER PLAN & ROADMAP. More that 45 executives for the Thailand Government, Provincial Electricity Authority, EGAT, and private sector companies participated in providing valuable input into designing the Roadmap and Master plan for DE in Thailand.

Through these discussions, the EC promotes more efficient energy generations and profitable energy practices which mitigates the environmental impacts of energy production, and increases decentralized energy access within Thailand. For more information contact Sridhar Samudrala at ssamudrala@localpower.org or Alan Dale Gonzalas at adale@localpower.org.

Wade Canada Calls for Public Hearings on Bill 50

Canada - WADE Canada voiced its concerns today regarding Bill 50, the Electric Statutes Amendment Act, 2009. If adopted, Bill 50 will allow the Stelmach government to fast track approximately \$20 billion of upgrades to our transmission infrastructure including the construction of new transmission lines. It would give the province authority to do this without a public hearing process held by the regulator. Albertans would be silenced even if it means they will foot the bill.

The role of our regulator is "to protect social, economic and environmental interests of Alberta where competitive market forces do not," says Geraldine Byrne, Vice-President of WADE Canada. "We are asking the government to change its course and hold transparent public hearings to hear what Albertans have to say" says Byrne.

WADE Canada President, Anouk Kendall, hopes that the government will allow Alberta stakeholders to explore alternatives to the expenditures outlined in Bill 50 to ensure that we are investing wisely. "The alternative is found in a balanced and long term transmission plan which factors in improved generation efficiencies, reduced peak demand and advancements in grid management" says Kendall. "We need to sit down with stakeholders and understand our options and their respective price tags." WADE Canada is a registered, national, non-profit industry association which supports growth and development of the Decentralized Energy industry.

For more information visit: http://www.wadecanada.ca/alberta_bill50.html

WADE Canada Officially Welcomes Vice President, Geraldine Byrne

Canada - Geraldine Byrne is a welcome addition to WADE Canada's management team. Geraldine is a leader in energy efficient and renewable energy technology transfer initiatives. Geraldine managed the transfer of renewable energy technology in 30 rural communities in Latin America. She also directed the daily operations of a start-up distributed energy company that specialized in the development, sales, installation and operation of microturbine-based combined heat and power systems. In addition, she was involved in the assessment of commercial markets for micro-cogeneration technology (multi-unit residential, recreation, greenhouse, industrial processing plants).

"Canada has tremendous potential for Decentralized Energy. I am excited about being part of this effort as this industry begins to explode." says Byrne.

Geraldine has a Masters degree from the University of Calgary with a specialization in Rural Energy Development. Her field research was carried out over a 7- month period in Cuba with the East University's Centre for Energy Efficiency Research Centre in Santiago de Cuba.

WADE Canada New Members

Canada - WADE Canada welcomes the first municipality to its membership. The Municipality of Chatham-Kent has a long history in Canada's agricultural and automotives sectors. It is the twelfth-largest municipality by area in Canada and the largest in southwestern Ontario. Chatham-Kent and its 23

communities are currently investing in strategies to support economic diversification. Increasingly focused on the clean energy sector, they are aggressively developing new training and education partnership programs to support capacity growth in this sector. To its advantage, the municipality is home for two large energy companies, Union Gas and Spectra Energy.

Chatham-Kent has demonstrated municipal leadership in Canada's clean energy sector in a very short period of time. It currently has 42 installed wind turbines and 165 awaiting approval. Chatham is one of three in North America to possess a dry mill continuous ethanol producing plant, which will receive up to \$72.8 million from the Government of Canada's ecoENERGY for Biofuels program.

In terms of training and education, bioenergy research and the bioeconomy will be the focus of the University of Guelph's new Centre for Agricultural Renewable Energy and Sustainability (CARES) at the Ridgetown Campus. The first scheduled project is a farm-scale biodiesel demonstration plant. The Canadian government is investing >\$900 000 in the project.

Additional Chatham-Kent projects include:

500 acres zoned for solar power projects, with an additional 500 acres in the approval process

The development of a co-generation project at its Water Pollution Control Plant

Plans for expansion of Chatham-Kent Energy, of which the Municipality of Chatham-Kent owns 90%.

WADE Canada is coordinating DE project development sessions for Chatham-Kent to introduce new investment and project partners to the region.

Northwest Territories Power Corporation

Northwest Territories Power Corporation (NTPC) has succeeded in generating and delivering power in Canada's most challenging environment. In Canada's northern climate, an integrated transmission system is not economically feasible. The Northwest Territories is home to 43 000 Canadians spread across more than 1.2 million square kilometers living in 33 small and often remote communities. Most of these communities are heated and electrified by hydrocarbon fuels, primarily diesel, that are extracted and refined in southern Canada and then transported thousands of kilometers north. These factors make long term energy planning a challenge.

As a result, NTPC manages and operates 28 separate power systems comprised of hydro power plants, diesel and natural gas power plants. Due to high import costs and emissions, displacing diesel systems is a priority in the NWT. Since 1990 NTPC has reduced diesel consumption by 75% and cut greenhouse gas emissions by 58%. NTPC is leading by example by using residual heat from all of their diesel power plants for space heating in NTPC buildings, and a 1000 W solar demonstration project on the roof of its head office in Hay River. New district heating systems are planned for four communities and a 25kW hydrokinetic turbine demonstration project is in the planning phase for the Village of Fort Simpson, which is being held for approval by Navigable Waters. If approval is given NTPC will have the hydrokinetic turbine placed in September.

WADE Canada Board News

Canada - At WADE Canada's Annual General Meeting held in Montreal this past May, three new Directors were voted onto the 2009 Board. We are pleased to formally welcome Bob Hawkesworth, Owen Schneider and Benjamin Kennedy.

Bob Hawkesworth

Bob Hawkesworth has supported WADE Canada and its predecessor, NewERA, since 2003 when he joined the Board as a founding Director. He is a nationally recognized leader in sustainable community development and has played a critical role in developing many of Alberta's community energy projects. We are pleased to welcome him back for his sixth year.

Bob is a City Alderman (City Councillor) in Calgary, Alberta. He has nearly thirty years of City Council and Provincial Legislature experience. During this time he also held the position of President of the Alberta Urban Municipalities Association where he received numerous awards including a special Life Member award in 2008.

Bob was instrumental in leading Calgary's adoption of LEED (Leadership in Energy and Environmental Design) standards, for which it became the first municipality to receive the Canada Green Building Council's Government Leadership award in 2008.

Bob received "Spirits of Gold" Award from United Way for his advocacy as founding member of the Calgary Homeless Foundation and chair of the Calgary Affordable Housing Team.

Bob serves on various Boards and Committees, including Climate Change Central Board of Directors, the Standing Policy Committee on Utilities and Environment, ENMAX Corporation Board of Director and Chair of the Land and Asset Strategy Committee. He holds a Bachelor of Arts degree from the University of Alberta and a Master of Arts Degree in Resources and the Environment from the University of Calgary.

Benjamin Kennedy

WADE Canada welcomes Benjamin Kennedy to his first appointment to the board of directors. Ben is the Canadian Jenbacher Business Development leader for the GE Infrastructure team. Responsible for market development and growth of GE Energy's Jenbacher reciprocating engine in Canada, he brings with him over six years of experience in operations management with Irving Tissue, a leading Canadian pulp and paper manufacturer.

Ben has a bachelor's degree in Mechanical Engineering from the University of New Brunswick and is currently pursuing an MBA at York University's Schulich School of Business focusing on finance and strategic management.

Owen Schneider

WADE Canada welcomes Owen Schneider to his first appointment to the board of directors. Owen possesses more than 15 years of experience in the chemical, energy and manufacturing industry, his background includes over a decade of corporate development work with Enbridge, a major North American energy transportation company. Owen is currently Manager of New Ventures at Enbridge and is responsible for the management of Toronto Power Solutions, a joint venture with Toronto Hydro

Energy Services Inc., which develops and provides distributed energy solutions in the Greater Toronto Area. Owen has successfully created new businesses and partnerships and is an industry-leading specialist in providing business and financial valuations. Owen has an MBA in Finance and International Business from Dalhousie University and a BA in Economics from the University of Toronto.

For further information about WADE Canada please contact Anouk Kendall at akendall@wadecanada.ca.

Calling WADE Members - How Can We Help You?

NGR Guest Speaker - THE HONORABLE GARY GENSLER

Chairman, Commodity Futures Trading Commission

Date: Tuesday, October 27, 2009

Time: Reception: Noon

Place: University Club
1135 16th Street, NW
Washington, DC

Luncheon: 12:30 p.m.

The Natural Gas Roundtable is pleased to announce that U.S. Commodity Futures Trading Commission (CFTC) Chairman Gary Gensler, will be the guest speaker at the October 27th luncheon.

Mr. Gensler was sworn in as the Chairman of the CFTC on May 26, 2009.

Chairman Gensler previously served at the U.S. Department of the Treasury as Under Secretary of Domestic Finance (1999-2001) and as Assistant Secretary of Financial Markets (1997-1999). He subsequently served as a Senior Advisor to the Chairman of the U.S. Senate Banking Committee, Senator Paul Sarbanes, on the Sarbanes-Oxley Act, reforming corporate responsibility, accounting and securities laws.

For reservations, please contact Ella Proctor at 202-824-7207 or eproctor@aga.org by **COB on Thursday, October 22**. As a reminder, you will be billed for lunch if you make a reservation and cannot attend, unless you cancel two (2) business days in advance. **Also, if you have special dietary requirements, please let Ella know when you make your reservation (special dietary requests cannot be accommodated if made at the luncheon).**

Please Note: The 2009 member luncheon fee is \$40.00 per person for government, \$50.00 per person for the private sector or \$60 for non-members of the Natural Gas Roundtable to be paid at the door.

Look forward to seeing you at the Roundtable.

WADE to Participate in Power GEN Europe 2010 Conference and Exhibition

Call for Papers Under Way

Amsterdam, Netherlands - [WADE](#) invites all its members to submit papers for the eighteenth POWER-GEN Europe conference to be held in Amsterdam in June 2010. The conference focuses on themes like the Strategies for the European power industry, Gas Fired Power technology, Electrical and I&C Systems etc. Being Europe's premier event, this conference offers a wealth of business opportunities with the industry's leading professionals and key decision makers. The deadline for submitting the abstract is 16th October 2009.

For more details on registration visit:

Web: http://www.powergeneurope.com/etc/medialib/power-gen-europe/documents.Par.2834.File.dat/2098_PGE_Call%20For%20Papers.pdf.

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:

- WADE Economic Model - computer modeling of the economic and environmental impacts of DE in a specified area
- DE Potential Analysis - assessment of the potential for developing DE in a specified area
- DE Policy Best Practice Review - international overview of policy mechanisms for DE
- DE Technology Status Review - overview of the performance and market-readiness of DE technologies
- DE Project Best Practice Case Studies - overview of successful DE case study projects worldwide relevant to a specified area
- 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 Kilikis via email at bkilikis@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

October 2009

19-21 October	18th IAGT Symposium Banff, Canada Info
20-22 October	Vancouver Gaining Ground 2009 Conference Vancouver, Canada Info
23-24 October	Second Annual International Conference on Energy, Logistics and the Environment Las Vegas, USA Info
27 October	NGR Guest Speaker - THE HONORABLE GARY GENSLER Washington, DC, USA Info

November 2009

16-18 November	Power and Electricity World Eurasia Istanbul, Turkey Info Look for WADE at this event
17-18 November	APPo 2009 Toronto, Canada Info Look for WADE Canada at this event
19-20 November	Smart Grids 2009 Singapore Info
25 November	Combating Climate Change Competitively London, United Kingdom(Great Britain) Info
25 November	CHPA Annual Conference 2009 London, United Kingdom(Great Britain) Info

December 2009

08-10 December

Power-Gen International

Las Vegas, USA

[Info](#) [Look for WADE at this event](#)

January 2010

18-21 January

World Future Energy Summit

Abu Dhabi, United Arab Emirates

[Info](#) [Look for WADE at this event](#)

March 2010

03-06 March

Enertech World Expo 2010

Mumbai, India

[Info](#)

April 2010

03-06 March

POWER-GEN India & Central Asia

New Delhi, India

[Info](#)

Global Briefs

GE Energy Signs Russian Jenbacher Gas Engine Deal

Russian Federation -GE Energy has signed two new Jenbacher gas engine distributor and service agreements with highly regarded energy services companies in Russia as industry and municipalities seek more efficient, reliable, fuel-flexible onsite power solutions. These agreements also will support the country's efforts to modernize its power generation and delivery infrastructure while reducing regional greenhouse gas emissions.

GE announced its new Jenbacher gas engine distributor and service agreements with Intma of Moscow and Vapor of St. Petersburg during Russia Power 2009, the region's leading annual power industry conference, Intma is an engineering services/general contractor for power stations and production automation systems, while Vapor specializes in the engineering of sophisticated combined heat and power (CHP) applications.

Read the full [article](#).

Essar Algoma Operates Cogeneration Facility; Unit Generates Electricity, Cuts Emissions

Canada -Canadian steelmaker Essar Steel Algoma has successfully started up a 70 megawatt cogeneration facility after meeting operating standards required by the Ontario Power Authority. Armando Plastino, chief executive officer of the Sault Ste. Marie, Ontario-based steel company, said the cogeneration facility is exceeding the company's initial expectations of reducing emissions and the amount of electricity it needs to purchase.

The facility converts by-product fuels from the cokemaking and ironmaking processes into electricity and steam for the steelworks. The new facility reduces Algoma's dependence on the local power grid by an average of 50%.

Read the full [article](#).

Wärtsilä Joins UN Global Compact Initiative

Finland - Wärtsilä has signed the United Nations Global Compact initiative and has been registered as a participant by the UN Global Compact Office. With this action Wärtsilä further consolidates its commitment to sustainable business practices, and to the compact's underlying principles in the areas of human rights, labour, environment and anti-corruption.

"We wanted to express our support for the UN Global Compact initiative, because we share the same values which it promotes. We believe that participation in the UN Global Compact will support our long-term efforts to develop our products and operations in a sustainable way. Our business and operations in 70 countries provide an excellent platform for us to continue taking these principles forward," says Ole Johansson, President and CEO of Wärtsilä Corporation.

Read the full [article](#).

Microturbine-powered Bus and Car Highlight Capstone Turbine's Green Technology Showcase

Canada - America's only microturbine-powered hybrid-electric bus was a key draw at Green Technology Showcase sponsored by Capstone Turbine Corporation the world's leading clean-technology manufacturer of microturbine energy systems.

The bus, which features a C30 Capstone MicroTurbine, is called "library quiet" because it is 75 percent less noisy than traditional buses. In addition, the microturbine-powered bus is 100 percent more fuel efficient than standard diesel buses, according to bus manufacturer DesignLine.

Leaders from throughout the energy industry, customers and representatives of key California politicians' offices attended the Showcase, which featured the hybrid-electric bus, a microturbine-powered sports car displays of Capstone microturbines - from the C30 microturbine that produces 30 kilowatts of clean-and-green power up to the 1-megawatt C1000 turbine system.

Read the full [article](#).

Beijing to Triple Use of Renewable Energy by 2010

China -Beijing, China's second-largest city after Shanghai by population size, plans to triple the use of renewable energy including wind power by 2010 from 2005 to help fight pollution and climate change. China plans to invest at least 100 billion yuan (\$14.6 billion) to more than double its wind-power capacity by 2010 from last year. Beijing, whose population exceeds 17 million, will boost the use of renewable energy to 2.6 million metric tons of coal equivalent by next year and 7.2 million tons by 2020, the city's economic planning body said in the statement.

Read the full [article](#).
