



WADE Canada March News

WADE Canada's Feature Member

SWAY Energy Inc.



Alberta's SWAY Energy Inc. is a progressive power generation company that is changing the way we think about utilities. SWAY's business model is designed to provide commercial, institutional and industrial clients with viable energy options tailored to their specific operations.

The SWAY Energy team defined its vision and mission through a strategic planning process that focused on the question "How do you challenge the status quo, meet the growing demand for more environmentally responsible power and provide power stability and security for business consumers in a deregulated electricity marketplace?".

The SWAY team customizes solutions for its clients using its proprietary economic and technical model. Among its suite of technology solutions is cogeneration and trigeneration systems that defer transmission and distribution capital investment costs.

SWAY Energy has gone beyond providing technical expertise. They also design, own, install and maintain their cogeneration plants. Their clients benefit from up to 20 percent reduction in utilities costs, reduced maintenance costs, avoided additional capital costs, and reduced on-site GHG emissions.

"In-situ generation is a key component of Canada's blend of energy solutions and SWAY is positioned to be a leader. We focus on what we do best - provide our customers with all the benefits of on-site/decentralized generation - allowing them to remain focused on what they do best. Our solutions come with the assurance that clients have access to a secure supply of efficient energy. It's a win, win, win business model." said Dr. Corbett- Lourenço, President of SWAY Energy Inc.

For more information please visit <http://swayenergy.com>

WADE Canada's Feature Project

The Child Development Centre, Alberta's First LEED® Platinum Building A perspective on energy efficiency



The University of Calgary, took great initiative in its Sustainability Policy in 2005, when it started construction on its Child Development Centre (CDC). It was the University's primary goal that the design of the building would attain LEED® Platinum certification, which it did in 2007, becoming Alberta's first LEED® Platinum building, Canada's second, and the world's first in a cold climate. The university partnered with Kasian Architecture Interior Design and Planning, R.C. Peterson Ltd. and construction managers and Ellis-Don Construction, to realize its vision.

The CDC achieved the highest LEED® standards for energy efficiency and other LEED® areas. The 11,612 m² building had the largest photovoltaic array in Western Canada at the time of construction, which can produce 40,000 kWh of electricity annually. Located above the building's windows, the solar panels have the double function of serving as shades, which lessen the peak cooling load during summer months. WADE Canada member Sedmek Inc. was the contractor in charge of the solar PV installation.

"Because the Child Development Centre was designed to use about one third the energy of a conventional building of its size, the 325 m² photovoltaic array offsets about 10 percent of the CDC's annual building system energy costs," said Dr. Jim Love, Chair in Sustainable Building Technologies at the University of Calgary's Faculty of Environmental Design. Dr. Love was the energy engineer for this project.

Even the ventilation system was designed to be energy efficient through the low velocity under-floor air supply system.

Considerable detail was considered in the CDC's building and design including energy efficient construction materials such as the concrete mixed with 50 percent fly-ash from Alberta's coal fired generation plants, contributing to an overall 75 percent post-industrial recycled content for building materials. To reduce urban heat island effect, the CDC has a "cool roof" with high emissivity and reflectance properties to redirect solar radiation into the atmosphere.

Waste materials were sorted on site and sent to a variety of receiving facilities, such as metal recyclers, to achieve 83 percent diversion of waste from landfill.

The CDC's elongated east-west footprint allows more effective shading of south-facing glass (buildings typically have a daytime excess of heat from internal gain from lights, people and equipment during the daytime) and increases the amount of low glare illumination via north-facing windows.

As a result of these energy efficient materials and DE installations it was estimated the CDC's energy costs would be reduced by 64 percent, compared to a building of the same size, thus also saving 800 tons of CO₂ annually.

In addition to the CDC, the University of Calgary is targeting LEED® Gold and LEED® Silver for 5 new buildings currently under construction.

The university is expecting to complete its co-generation plant in 2011. This will reduce heating and cooling CO₂ emissions by 123,000 tons CO₂. Combined with the energy efficiency of recently added buildings and retrofit measures, this will reduce the University's 2012 GHG emissions to 30 percent below 1990 levels.

For more information, please visit: <http://www.ucalgary.ca> or contact:

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WADE Canada Launches New Train to Employment Program

DE employers please submit your job and internship opportunities!

WADE Canada is pleased to announce the launch of its [Train to Employment](#) program to support and enable the advancement of the Canadian DE industry. The program has four new components:

RETScreen® Annual Training Program: Workshop sessions will be held across Canada to train DE stakeholders on the RETScreen® version 4 software developed by Natural Resources Canada. Announcements and website updates will inform you on upcoming workshops.

Job Placement and DE Internship Programs: WADE Canada would like to receive your job postings, internship, or entry-level job postings. WADE Canada connects clean energy professionals to employers that are developing their internal capabilities in terms of smart grid, decentralized energy implementation and policy development. We also provide personalized executive search services for senior level positions and work directly with employers to find the best people to support the growth and management of their business.

Other Training and Education Programs: WADE Canada has a working list of colleges and institutions offering training and education programs related to clean energy.

For more information please visit www.wadecanada.ca and go to the "Train to Employment" listed under "Resources".

For further information, or to submit your employment, internship and training program postings, please contact Patricia at pfaucher@wadecanada.ca.

WADE Canada's Inaugural RETScreen® Training SOLD OUT



WADE Canada had a full house for its first RETScreen® Version 4 Training Workshop in Calgary, Alberta, on February 23 and 24. The two-day workshop held at the Alberta Innovates- Technology Futures building in Calgary marks the launch of WADE Canada's new Annual RETScreen® Training Program.

Twenty-six industry professionals from British Columbia, Alberta, Saskatchewan, Quebec and Ontario participated in this intermediate level training session. Experienced RETScreen® trainers Michael Ross and Ken Hogg, reviewed the best practices for evaluating clean energy projects and for analyzing system costs, which arise at the pre-feasibility, feasibility, development, and engineering stages in the deployment of Renewable-energy and Energy-efficient Technologies (RETs).

Participants evaluated the session in the 86th percentile in terms of trainers, content and training calibre. Companies, small businesses, institutions and individuals whom

attended can now evaluate energy production, life-cycle costs and greenhouse gas emissions reduction for a clean energy solution to their energy costs.

The RETScreen® Training Program is supporting the development of clean energy skills in Canada's energy businesses, government bodies, and education colleges and institutes. The benefits from this program include improved access to knowledge and information for the implementation of efficient renewable energy systems throughout Canada.

RETScreen® version 4 is available in 35 languages and can be downloaded free of charge by Natural Resources Canada. For more information, please visit: <http://www.retscreen.net/>

If you would like us to hold a training session in your region, please contact:

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Calgary Senior Level Executives Attend WADE Canada's Executive Circle Speaker Event



From left: Ken Hogg, WADE Canada RETScreen Trainer, Geraldine Byrne, Vice President of WADE Canada, Tim Edwards of Shell and Bill Overend, President, Overview Business Consulting

WADE Canada hosted a champagne reception and dinner on February 24, bringing together clean energy leaders to discuss the government-industry partnership in research, innovation and thus positioning Alberta as a leader in the low carbon energy economy.

Over 30 of Calgary's senior level executives from ENMAX, Shell, Lakeland College, the DeVry Institute of Technology, Calgary Technologies Inc., the City of Calgary and many other leaders from the clean energy industry, attended the event.

Dr. Eddy Isaacs, shared his vision of Alberta Innovates- Energy and Environment Solutions and invited feedback from dinner guests. There was a general consensus that a strong low carbon economy in Alberta will rely on clean and decentralized energy business success and commitment from all sectors of the economy including energy and building infrastructure, the various Alberta ministries, technology developers and utilities.

Northwest Territories News - Is net metering imminent?

WADE Canada's Vice President Geraldine Byrne and President Anouk Kendall accepted an invitation to present WADE Canada's recent finding on net metering and net billing programs. This January session presented the findings from across Canada to an audience of representatives from utilities, government and regulatory bodies. The Northwest Territories have been working towards a micro-generation pilot project, which will allow small, clean energy systems to connect to the grid. The details of this project are still in the design stages though some progressive developments in energy management are expected this year.

Upcoming Events

WADE Canada speakers at the Transmission and Integrating New Power into the Grid Conference, April 19-20, Calgary, Alberta.

WADE Canada President Anouk Kendall and Vice President, Geraldine Byrne will be co-presenting at the Canadian Institute's Transmission and Integrating New Power into the Grid Conference on April 19-20 at the Marriott Hotel in Calgary. The conference will offer a forum for experts to debate and discuss the path of new transmission and generation. Anouk's and Geraldine's topic of discussion will be Exploring the Potential of Decentralized Energy and Microgeneration.

For more information, please visit: <http://www.canadianinstitute.com/transmission.htm>

WADE Canada Members wishing to attend the conference may call The Canadian Institute at 1.877.927.7936 and quote the Priority Service Code 399L10.S and Anouk Kendall's name to receive a 15% discount off the registration fee.