

FVB News

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FVB Energy · Global Presence · Local Solutions

Welcome to the first issue of the FVB Energy Canada Newsletter. It has been a long time coming, and it continues to be a work in progress. The target audiences for our newsletter are FVB Energy employees, and our valued Clients. Our objective is to provide up to date information about our growing company, its people, as well as exciting projects and new technologies.

Message from the Chairman

Ten years from now we will enter the year 2020, which is a major milestone in the climate change agreement that world leaders established in Copenhagen. There are huge challenges that we face, but our objectives remain the same: energy conservation, energy efficiency and utilizing our valuable renewable resources. District Heating and District Cooling both play a key role. FVB Energy is one of the players that will help make the transition to a more sustainable world. We are successful in what we are doing, and we are in an important, exciting and growing marketplace.

Bjorn Andersson, Chairman of the Board

Vancouver Sewage Recovery Heat Pumps

The South East False Creek Energy Centre in Vancouver, British Columbia, utilizes mechanical vapour compression heat pumps for heat recovery from sewage that serves the base heat load for the South East False Creek development. The development served includes the Olympic Village, which will be occupied by 2,800 athletes and officials for the upcoming 2010 Winter Olympics. The designed heat output of the energy centre is 26 MW_t at full build out. The first sewage heat pump was installed in phase one, with room for expansion for a second heat pump that will contribute approximately 70% of the base load energy requirements for the District Energy System.

The sewage heat pumps are installed in a series counter-flow arrangement with dual helical rotary compressors. These provide the advantages of improved full load efficiency, improved part load efficiency, increased turndown, improved reliability and extended operating range. These units used are unique, and are the first of their kind in North America. The sewage pumped through the heat pump is raw sewage, meaning that it is untreated and is filtered to allow only small particles to pass through. The heat pumps work by pumping warm sewage waste through the evaporator side of the heat pump. This heat, coupled with the mechanical compression of the refrigerant, produces hot water that is pumped through the condenser of the heat pump. The heat pump produces 80°C water on the condenser side. The False Creek Energy Centre held its grand opening on January 14, 2010. This was a momentous occasion for the City of Vancouver, in being both a world leader in green energy, and in the reduction of greenhouse gas emissions.



SE False Creek Energy Centre,
Vancouver, BC
(photo courtesy of City of Vancouver)



Sewage Heat Recovery Heat Pump
(photo courtesy of Tecsir)

LEED

What is LEED ?

The Leadership in Energy and Environmental Design (LEED) Green Building Rating System™ recognizes excellent design, construction and operation of green buildings. The four levels of certification (certified, silver, gold and platinum) reflect overall scores based on independently reviewed ratings in five areas: sustainable site development, water efficiency, energy efficiency, materials selection and indoor environmental quality. In Canada, the Canada Green Building Council, CaGBC is the governing body that approves projects for LEED ratings. The same progressive communities that are developing district energy projects, are also tending to demand that buildings achieve LEED certification. The application and rating system for District Thermal Energy in LEED-NC is currently still in draft format, and is with USGBC authorities for review.

In anticipation of this demand, several FVB Energy staff have become LEED® Accredited Professionals including; Christina Herbers, Sandra Yee, Sherri Wolter, Michael Conte, Bård Skagestad, Innes Hood, and Eric Soulliere. FVB Energy is also a member firm of Canada's Green Building Council since May 2008, which solidifies FVB's support of LEED in Canada.

Contributed by: John Stephenson, M.Sc



Green Tips



Create a green habit and use reusable cloth bags each time you go shopping. When grabbing your favorite cup of coffee, be sure to bring with you and use your reusable mug ~ both Starbucks and Tim Hortons offer a 10 cent savings each time that you do.

Check out www.greenlivingtips.com for more ideas to keep living green.

FVB Energy ~ Staff News 2009 / 2010

In June 2009, FVB Energy announced the appointment of Richard Damecour as the new Chief Executive Officer (CEO) of FVB Energy Inc.— Canada. We also announced the appointment of Jim Manson as Vice President in charge of our new Vancouver office, which opened on September 24th, 2009.

FVB Energy welcomed the following new staff members to in 2009, and the start of 2010:

Sean Casey, EIT — is a Mechanical Engineering graduate who joined our Edmonton office in March 2009. He graduated in 2009 from the University of Alberta Engineering co-op program. His co-op work experience includes pulp and paper, pipe manufacturing and Facility Maintenance.

Sean Sparkes, P. Eng — is a senior Mechanical Engineer who joined our Edmonton office in March 2009. He has over 14 years of experience, with a background as a project manager is primarily in Pulp and Paper, as well as heavy oil.

Alex Cocuz, P. Eng — is a senior Electrical Engineer who joined our Toronto office in April 2009. He has over 18 years of experience, most of them in the power business for industrial, commercial and power utilities, and a great passion for working in the green energy industry.

David Trigg, EIT — is a junior Mechanical Engineer who joined our Vancouver office in October 2009. He graduated from UBC in Mechanical Engineering co-op in 2006. His experience includes supporting hydroelectric projects at BC Hydro, and working for a start-up manufacturing firm.

Mark Galloway, EIT — is a junior Mechanical Engineer who joined our Edmonton office in December 2009. He graduated from the University of Western Australia Mechanical Engineering co-op program in 2005. He brings three years of experience working as a Noise and Vibration Consultant.

Ayman Fahmy, P. Eng — is an intermediate Mechanical Engineer who joined our Toronto office in January 2010. He brings 9 years of district cooling experience from the Middle East.

Karl Marietta, MBA, BSEE — has joined FVB Energy as a Senior Consultant in the Toronto office, he started in January 2010. Karl is a former Vice President of the FVB US operation, he left FVB in 1998 to join Tabreed; the National Central Cooling Company in UAE. Karl's most recent position at Tabreed was an advisor to the Managing Director and the Board of Tabreed.



Sean Casey, EIT



Sean Sparkes, P. Eng



Alex Cocuz, P. Eng



David Trigg, EIT



Mark Galloway, EIT



Ayman Fahmy, P. Eng



Karl Marietta, MBA

Contact Us



We invite your questions and comments by email at: cherbers@fvbenergy.com

Please check out our website at www.fvbenergy.com

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