

FVB Canada ~ News

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FVB Energy · Global Presence · Local Solutions

FVB appoints new Chairman

FVB Canada congratulates **Leif Breitholtz**, who was appointed Chairman of the board for FVB District Energy in December 2010. He replaces Björn Andersson, who has retired after providing 40 years of dedicated service to FVB Sweden which included 10 years as Chairman of FVB Energy Inc.



Leif has over 25 years of experience in the district energy field. He has a degree in 'Energy Systems Engineering' from Mälardalens University and a diploma in 'Consultancy Management' from KTH University.

Before joining FVB Sweden, he held several positions including development engineer with the district energy operating company, Mälarenergi AB. Leif joined FVB Sweden in 1997, was promoted to Vice President in 2002, and President in 2005. Leif resides in Västerås with his spouse and two children. When not working, Leif and his family spend their free time enjoying the sauna and fishing at their cottage located on the Stockholm archipelago.

Leif Breitholtz
Chairman of the Board – FVB Energy Inc. (Canada & US)
President, FVB Sweden Inc.

End of an Era

All the best to **Björn Andersson** in his retirement years after providing 40 years of dedicated service to FVB Sweden, which included 10 years as Chairman of the Board for FVB Energy.

We wish him all the best as he spends his retirement with his children and grandchildren, as well as skiing, skating and plenty of safe cycling!



Jim Manson, Peter Beckett & Björn
on a visit to Edmonton



Retirement Gift - new bike with Safety Mods



Increase Efficiency with Thermal Storage

Unknown to many, thermal storage is actually a simple process. Thermal storage allows for the capture of excess heat while the combined heat and power (CHP) plant is running, storing the confined heat until it can be used without having to turn to an alternate heat source. This process intensifies the efficiency of a CHP designed for district heating. In Markham, Markham District Energy successfully puts this simple process to work and has benefited greatly.

The secret to Markham's thermal storage success is a water tank standing 19 meter tall, with a diameter of 10 meters and holding a total volume of 1,200 cubic meters, which, can be charged in approximately 6 hours. Markham's tank has achieved a thermal storage capacity of approximately 35 MWh, holding the water at a maximum temperature of 95°C. Heat enters and leaves the tank through a diffuser pipe assembly located at the top of tank, while pressure is maintained by a pump which either injects or draws water from the tank. All of these parts, along with the design of the storage tank, work together to allow a charge/discharge rate of 6 MWt.

Is thermal storage an efficient, cost effective, and an environmentally friendly process? Markham's results speak for themselves. Last year, due to Markham's thermal storage tank, no boilers were needed to supply heat from May to October. The captured waste heat from the CHP, supplied energy for space heating and domestic hot water needs during those months. This system allows the CHP's excess heat to be retained during the daytime operating hours, instead of the usual practice of expelling the leftovers into the environment through cooling towers. All night heating demands of the summer and shoulder months did not deplete the storage tank and during the notoriously cold Canadian winters, Markham's thermal storage tank kicked in to add additional thermal energy.

The results seen from Markham District Energy's thermal storage system have been extremely positive. Providers of district energy systems should seriously think about adding thermal storage to their repertoire of efficient and green systems.



Thermal Storage Tank
photo courtesy of Markham District Energy



FVB participates in the
Capital City Clean Up



FVB Commuters

Green Notes

FVB Summer Commuter Challenge

- ✦ This summer, FVB Edmonton staff challenged themselves, and **cycled over 3,400 km** commuting to and from work!
- ✦ They offset over **2.3 Tonnes** of CO₂ equivalent GHG emissions and saved over 400 L in fuel!

Nice job!



Staff News

FVB would like to announce the following:

Congratulations to **Mark Tracey, P.Eng** who is the newly appointed Engineering Manager in our Toronto Office.

In recognition of their years of contribution to our company, as well as the technical expertise that each bring to FVB, we have added the title of Principal to the following employees: **Peter Beckett, P. Eng, John Chin, P. Eng** and **Bård Skagestad, P. Eng**. Each of these individuals has had a significant impact on the success of our company, and by adding the title of **Principal** to their business cards, is our way of informing our Clients of the importance that these individuals hold at FVB.

Congratulations to **Sean Casey, EIT**, who transferred from our Edmonton office to our Vancouver Office in September of this year, we wish him all the best!

Congratulations also to the following employees who were successful in obtaining their P. Eng. designation: **Elliot Digby, P. Eng, German Rodriguez, P. Eng** and **David Trigg, P. Eng**.

FVB would like to welcome the following staff:

- * **Mike Foote, P. Eng** returned to FVB's Edmonton office in January 2011 after a two year absence working for another consultant in the oil industry. Mike's return strengthens the company's knowledge base in pipe stress analysis, system registration and code interpretation.
- * **Sandra Yee, P. Eng** returned to the FVB Toronto office in March 2011 following her maternity leave.
- * **Liz vanWonderen** joined FVB in January 2011 as the new Office Manager in Toronto. Liz graduated with a B.Sc. in Mechanical Engineering from the University of Arizona. Her experience is primarily in Industrial Product Sales.
- * **Alireza Moeini, EIT**, a new Junior Mechanical Engineer has joined our Toronto office, in September 2011. Alireza graduated from the University of Toronto in June 2011, with his B.Sc. in Mechanical Engineering.
- * **Dan Doherty, EIT**, a new Junior Mechanical Engineer has joined our Edmonton office in May 2011. Dan graduated from the University of Alberta in May 2011 with his B.Sc. in Mechanical Engineering.



Mike Foote, P. Eng



Liz vanWonderen



Ali Moeini, EIT



Dan Doherty, EIT

Contact Us

We welcome your comments by email at: cherbers@fvbenergy.com

Please check out our website at www.fvbenergy.com

~Editor: Christina Herbers, P. Eng, LEED AP

