



## District Energy Study

### Review Meeting Minutes

Sep 27, 2011 1:30 – 3:30pm

Attendance: John Stephenson (FVB), Dennis Braun (TRCA), Marc St.-Jean (GTAA), Michael Wiggan (PWGSC), Richard Schafer (Region of Peel), Tim Short (Enbridge)

#### 1. Introductions

#### 2. Review Task 100 – Customer Demand

- FVB reviewed analysis. Identified 36 potential customers with a total of 44MWt demand. Of these, 15 were available to interview, tour the facility, and review natural gas consumption data. 11 facilities, primarily hotels, with 16MWt demand located in cluster around GTAA cogeneration station and east along Dixon road are recommended for a first phase district energy system.
- Buildings are newer (most less than 10 years old) so are not expecting to replace boilers for several years.
- Hybrid hydronic / heat pump systems in hotels reduce the benefit of district energy.
- In FVB's judgement, this area is not suitable for district cooling. FVB will discuss this further in the Technical Memo.
- Customers have been difficult to access and a key element to make a district energy system work will be a concerted marketing effort in the area to firm up interest.

#### 3. Review Task 200 – Energy Sources

- Visited GTAA and analyzed GTAA cogeneration station. TransAlta has renewed interest, but not available until October.
- The GTAA plant is estimated to be able to provide 41% of the total heat requirement for the 11 phase 1 facilities with thermal energy from the cogeneration plant, and the remaining would be supplied from the available boilers.

#### 4. Review Task 300 – Distribution

- Preliminary routing includes 3.1km of piping for phase 1 facilities.

- Cost estimate for piping system, heat recovery and storage, and energy transfer stations is \$14 million.

**5. Next Steps**

- To review draft analysis for remaining tasks (400-900) September 27<sup>th</sup>
- TRCA to provide draft recommendations to Partners in Project Green Steering Committee after September 27<sup>th</sup>.
- FVB to present findings to Steering Committee on October 13<sup>th</sup>, 2011.