




horizon
HOLDINGS Energy Group

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District Energy Initiatives, Partnerships and Collaborations

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α ΗΑΜΙΛΤΟΝ ΚΟΜΜΥΝΙΤΙΛ ΕΠΙΧΕΙΡΗΣΗ

Presentation to: Public Works Committee,
City of Hamilton
Presented by: Katie Mills, CFO
Date: November 7, 2011


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Overview of HCE:

Energy Centre located at 79 Bay Street North:

- Provides thermal heat to approximately 2.0 million square feet of municipal, institutional, commercial and multi-residential space
- Partner with City of Hamilton's District Cooling for cooling
- Supplies on-peak and black start electricity for City Hall
- Provides operations and maintenance("O&M") services to Hamilton Renewable Power Inc.

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Overview of HCE (continued):

McMaster Innovation Park ("MIP"):

- Owns and operates a hybrid district energy system that currently services the CanMet Materials Laboratory facility and the Atrium at MIP
- Final phase for geo-exchange system commissioned on January 31, 2011
- A very 'good news' story for the City of Hamilton
 - One of the first hybrid applications in Ontario (integration of MIP's solar thermal system with HCE's geo-exchange system and conventional energy equipment)
 - Demonstrated ability to leverage multiple / green technologies efficiently and effectively
 - Reinforces Hamilton as a Centre of Excellence



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Key Partnerships:

- City of Hamilton
 - Public Works
 - Energy Department
 - Planning and Economic Development
 - Hamilton Renewable Power Inc.
 - Downtown Hamilton Development
- McMaster Innovation Park
- Golden Horseshoe Strategic Alliance
- Industry Education Council



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Successful Collaboration with the City:

- Gas buying strategy
- Lister Block
 - Interim heat during construction
 - On-going thermal heat post commissioning
- MacNab Street Snowmelt
 - Ready to be commissioned and for the first snow fall
- Energy efficiency realized at City Hall, Farmers' Market and Public Library
 - Approximately 19% reduction in thermal heat requirements
- Expanded O&M services for bio-gas purification system
- Continued focus on new opportunities for both thermal heating and cooling on behalf of the City



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Benefits to the City of Hamilton:

- Continued support of the City's triple bottom line
- Reductions in greenhouse gas emissions (more than 30,000 tonnes since commissioning in 2002)
- Full redundancy and reliability for City and other customer facilities
- Efficient energy supply
- Downtown redevelopment opportunities

Upcoming Projects and Future Expansion Potential:

- McMaster Automotive Resource Centre
 - Court House located at 50 Main Street (possible hub for DE satellite location)
- Developer
- O&M services



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Questions



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