

## **District Energy Opportunity**

Key Characteristics of a Successful District Energy System

- Density High density buildings
- ✓ Distance Close, within 3 km from the energy centre
- Anchor load to provide start up and financial stability
- Customers Connecting new buildings is better and a mix of uses is desirable
- A motivated municipality with the political vision, will, and leadership toward energy sustainability.



Let's Energize **Eurlington** 

## **City of Burlington – District Energy Opportunity**

Characteristics of the Downtown Burlington District Energy Node

- ✓ Density Burlington is "growing up" (not out), high density buildings anticipated in the downtown core,
- ✓ Distance 1 million sq.ft in 1 km from the City Hall within the next 5-10 years
- ✓ Anchor load new building developments
- ✓ Customers mix of residential, office, hotel
- A motivated municipality with the political vision to be carbon neutral.



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## City of Burlington – District Energy Opportunity

How can Burlington move toward carbon neutrality?

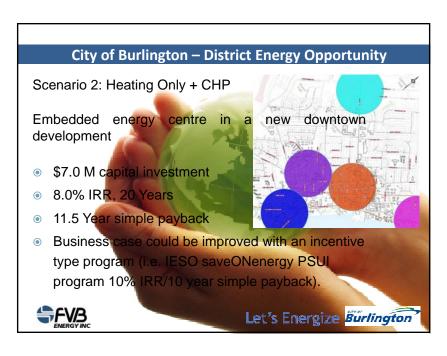
The common thread in low carbon communities around the world is the development of a district energy system (thermal grid).

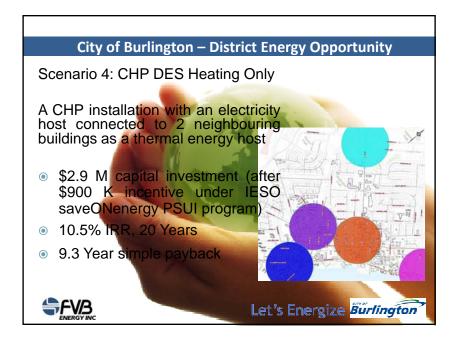
Connect buildings that the city either owns or has some influence over (i.e. in the permitting/planning process, ownership, lease)



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## City of Burlington – District Energy Feasibility Summary

Scenario 2 is a good opportunity to start a DES in the City of Burlington.

- Best potential for growth
- Moderate \$7.0 M capital investment and return on investment of 8.0%.

Scenario 4 is a good project and primarily an energy play

- Minimal capital investment \$2.9 M (after incentive)
- Good 10.5% return on investment
- Helps the electricity and thermal energy customers
- More challenged with respect to growth.



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