



TOWN HALL CHALLENGE

20 by '15

*A Town Hall
Challenge 20 by '15
Case Study*

Caledon Town Hall

*South wing
constructed 1974*

*North wing
constructed 2005*

60,000 sq. ft.

*2012 energy intensity:
33.6 ekWh/sq.ft.*

*2013 Energy intensity:
26.2 ekWh/sq.ft. (after
re-commissioning)*



*The Challenge:
Re-Commissioning
to move up the
benchmarking
chart and reach
the 20 by '15
target*

Plan of Action

1. Benchmark/Data Analysis

Mayors' Megawatt Challenge benchmarking and energy assessment informs Caledon of their saving opportunity inherent in re-commissioning.

2. Adopt THC 20 by '15 goal to spur enthusiasm and commitment.

3. Full building re-commissioning



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*“Energy conservation is a municipal priority for cost, efficiency, leadership and environmental reasons. In our ongoing efforts to make our communities sustainable, it is crucial that we municipalities **live green** by pursuing energy efficiencies in our own facilities. I can't think of a more prominent and symbolic place to start than our town/city halls. I respectfully encourage all Mayors and Councils across Canada to join the **Town Hall Challenge 20 by '15**. Together, we can show leadership, save money and move our municipalities towards sustainability.”*

*Mississauga Mayor,
Hazel McCallion*

Why Re-Commission?

- Objective is to increase facility efficiency as well as improve the working environment.
- Directs effects of this are: reduction in GHG emissions and lower utility costs.
- Audits in 2007 and 2008 for the facility revealed that Heat and HVAC systems as the largest energy usage; lighting as the second largest.

Re-Commissioning objectives	<ul style="list-style-type: none"> - To identify faults and ways to address them. - Identify malfunctioning equipment. - To identify practices that can be implemented to reduce gas and electricity consumption. - To reduce the ecological footprint of operating the building.
HVAC recommendations	<p>Over 70 recommendations, including:</p> <ul style="list-style-type: none"> - rescheduling AHUs - airflow adjustments - change setpoint timing - addition of sensors to monitor temperatures - reduced heating setpoints for unoccupied zones
Hot water system recommendations	<ul style="list-style-type: none"> - put water heaters and circulation pump on BAS and program for operating time and monitoring
Lighting Recommendations	<ul style="list-style-type: none"> - add more controls for lighting of zones - occupancy sensors - photo sensors to control lighting on bright days - de-lamping

Visit www.trca.on.ca/mmc, or email Brian Dundas at bdundas@trca.on.ca

