



# GTHA Faith Building Energy Benchmarking Program

**January 22, 2017**

**Faith & the Common Good**



**Faith & the  
Common Good**



# Program Background

- Ontario Trillium Foundation 2017 - 2020
- Target is **100** faith communities in Toronto, York Halton/Oakville & Hamilton
- Features easy-to-use, on-line Energy Star Portfolio Manager benchmarking system
- Track & improve energy/utility performance (electricity, gas)
- *"You can't manage if you don't measure"*





# The Team

## Energy Coordinator:

David Patterson  
Faith & the Common Good,  
[dpatterson@faithcommongood.org](mailto:dpatterson@faithcommongood.org)

## Green Faith Building Audits:

Stephen Collette  
Faith & the Common Good  
[scollette@faithcommongood.org](mailto:scollette@faithcommongood.org)

## Toronto:

Donna Lang,  
Faith & the Common Good  
[dlang@faithcommongood.org](mailto:dlang@faithcommongood.org)

## Halton:

Laura Irvine,  
Halton Environmental Network  
[laura.irvine@haltonenvironment.ca](mailto:laura.irvine@haltonenvironment.ca)

## Hamilton:

Beatrice Ekoko  
Environment Hamilton  
[bekoko@environmenthamilton.org](mailto:bekoko@environmenthamilton.org)

## York:

Harry French  
Climate Wise  
[hfrench@windfallcentre.ca](mailto:hfrench@windfallcentre.ca)





# What does Benchmarking mean?

**You and your congregation will find out some key information about your building:**

1. How much energy your building uses
2. How much money you spend on energy
3. How your building's performance stacks up to other buildings in your sector





# Why Benchmarking?

## Supports Stewardship

- Faith traditions teach stewardship.
- By reducing your energy consumption and your energy budget, your congregation can be stewards of the building and people.
- "Instead of wasting money on energy, you can give it to the less fortunate"
- *"It's the right thing to do."*

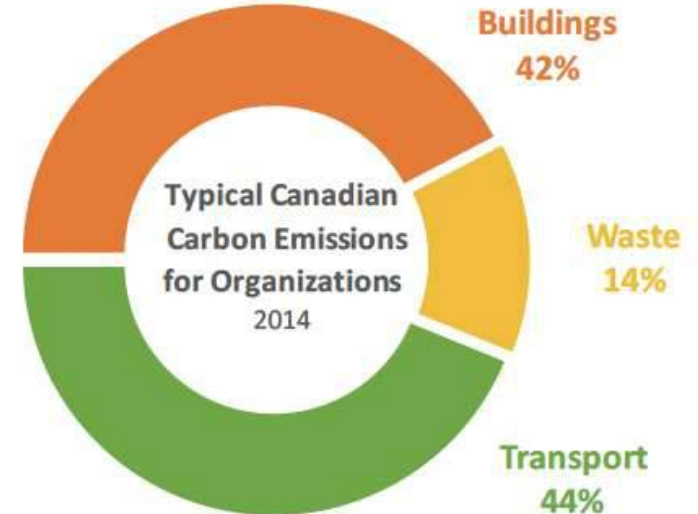




# Why Benchmarking?

## Target carbon consumption

- Buildings account for about 42%\* of a typical faith community's carbon footprint
- Addressing carbon reduction aligns with both provincial and federal government reduction targets



*\* Source: National Inventory Report 1990 2014: Canada's Submission to United Nations Framework Convention on Climate Change (April 2016). Note: Faith Communities are part of Organizations segment and this data pertains to Organizations.*





# Why Benchmarking?

## Saves Energy and Money

- Buildings that were benchmarked reduced energy use by an average of 2.4%\* per year
- Guides investment and operation (lowest hanging fruit for least expenditure)
- Assists future reporting requirements

*\* Source: U.S. Environmental Protection Agency; 2.4% up to a total cumulative average of 7%.*





# What you are being asked to do

- ✓ Make a commitment to save energy
- ✓ Give us your building information and your consent
- ✓ Work with us over the next 3 years to identify ways to decrease energy consumption





# What we'll do to make it easy for you

- ✓ Register your faith building with Energy Star Portfolio Manager
- ✓ Input your utility data into Portfolio Manager
- ✓ Facilitate a building audit (if desired)
- ✓ Provide energy performance reports, energy efficiency tools, funding info and training
- ✓ Meet with your building committee, Board





# Building Information On-Line Form



## Faith & the Common Good

### Building Information

Fill in your building information, and we will set up an Energy Star profile of your faith community, to help you begin to measure and reduce your energy use. If you have trouble finding this information for your building (when it was built, the square footage, etc), perhaps someone else in your faith community knows. If you have questions while filling out the form, contact your local Faith & the Common Good chapter.

Name of Faith Community \*

Street Address \*

City or Municipality \*

Required Building Information

Province or Territory \*

Postal Code \*

Please enter in this format (capitals with a space):  
X1X 1X1

Country \*

Year Built \*

Please provide the year your building was  
constructed (Please input all four digits of the  
year, for example: 1967).

[https://faithcommongood.org/benchmarking\\_form](https://faithcommongood.org/benchmarking_form)



ENERGY STAR®  
PortfolioManager®



Faith & the  
Common Good



# Consent Form



## Toronto Hydro-Electric System Data Centre Password Access Second Party Authorization/Release Form

TO BE COMPLETED BY THE CUSTOMER WHEN RELEASING THE PASSWORDS TO A SECOND PARTY OTHER  
THAN THE CUSTOMER.

Password secured access to Toronto Hydro-Electric System Limited's Data Centre is intended for the sole use of the customer responsible for the account. It is the customer's responsibility to manage his/her password(s). The customer can grant their retailer/consultant these rights at their discretion. Please be aware that anyone possessing a password to your Toronto Hydro-Electric System Limited's ("THESL") account will be able to change the password. Second party password access, requires the customer to provide our office specific written authorization by completing this form and faxing to our office as indicated below.

### Statement & Acknowledgement by Customer:

I am the customer responsible for the attached account(s). I hereby authorize the party below to access my THESL password and my THESL account. I have read the above and understand that the Ontario Energy Board may periodically conduct audits that can result in disciplinary action for any unauthorized use. I have also read the Disclaimer below and understand and agree that THESL, its parent company, and its Affiliates shall not be liable under any circumstances for any errors or omissions contained in the information/data retrieved from the THESL Data Centre.

On behalf of (customer) \_\_\_\_\_  
I (name) \_\_\_\_\_ authorize Toronto Hydro-Electric System Limited to release my  
User Name and Password as well as by Site ID(s) and PIN(s) for the account numbers listed on the attached to  
\_\_\_\_\_. I understand that release of my password and user name will provide this individual  
authorization to access my account and/or change my password at any time without my consent or notification to me.

Signature	Date
_____	_____
Witness	Date
_____	_____
Company Name:	_____
Contact Name:	_____
Title:	_____
Phone #	_____

E-Mail Address:

Fax #:

Account(s) # (10 digits):

For Additional Accounts Please Complete Appendix A



Faith & the  
Common Good



# Energy Performance Reports



## Benchmark Performance Report

Year Ending 2017-11-30

**Faith Community:** St. Brigid's Parish

**Address:** 298 Wolverleigh Blvd, Toronto, Ontario

**Occupancy:** 40%

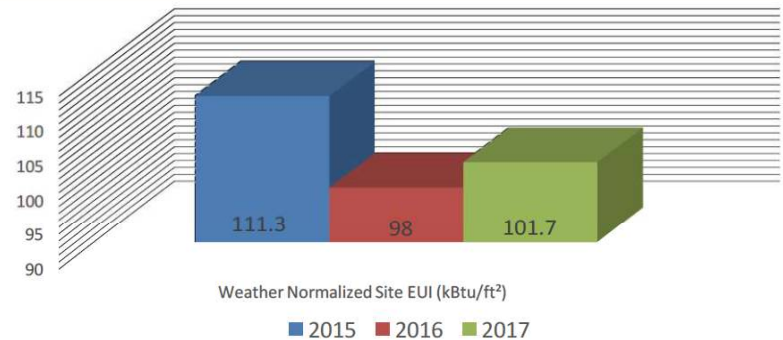
**Square Footage:** 20,800 ft<sup>2</sup>

**Year Built:** 1927

Participating faith communities will receive 3 annual performance reports:  
1) 2-3 months after sign-up,  
2) Q1 2019, 3) Q1 2020

Annualized Comparisons	Baseline Year (2015)	2016	2017	% Change 2017 vs 2016	% Change 2017 vs Baseline (2015)
Weather Normalized Site EUI (kBtu/sq. ft.)	111.3	98	101.7	4%	-9%
Total Electricity (kWh)	37143.9	37771	35091.8	-8%	-6%
Total Natural Gas (meters cubed)	65152	50211	53815	7%	-21%
Total Direct GHG Emissions (tonnes CO <sub>2</sub> e)	122.4	94.3	101.1	7%	-21%
Total Energy Cost (\$)	\$28,247	\$22,580	\$24,383	7%	-16%

Comparison: Your Weather Normalized Site EUI 2015-2017



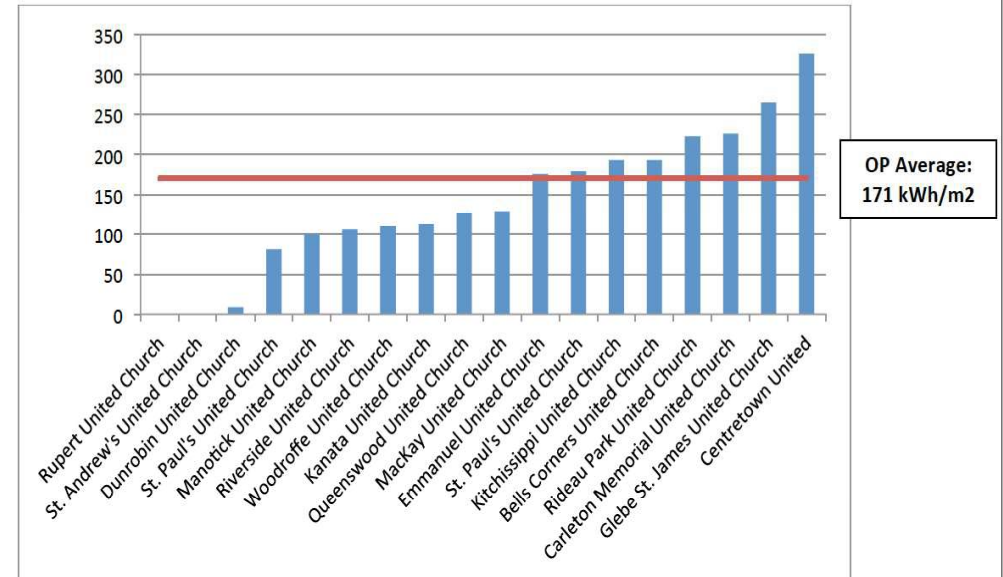
Faith & the Common Good



# JTHA "Peer" Benchmark Reports

- Participants will also receive a project interim (2019) and final report (2021) that will offer a comparison of your building.
- This will encourage shared learning to improve energy performance.

Site EUI (kWh/m<sup>2</sup>)





# Types of Energy Audits

<b>Walk About Audit</b>	Free	Animator will help facilitate a 40-60 minute walk about to recommend low hanging fruit (lighting, setbacks, ceiling fans), funding sources & next steps.
<b>Greening Sacred Spaces "DIY" Energy Guide</b>	\$15	a 21 page guide, with a DIY audit, covers energy, water and building envelope. "Practical Guide to Improving Energy Efficiency in your Faith Building". Great tool for knowledgeable volunteers.
<b>Greening Sacred Spaces "Green Audit"</b>	\$1250- \$1750	½ day, walk-through, tailored-for-places-of-worship audit including energy, air quality, food, water, waste, operations, maintenance and landscaping. 20-40 pages report with photos and recommendations to guide how to lower your energy & environmental footprint
<b>Engineering Audit</b>	\$7000- 20,000 +	A detailed energy report, done by an accredited engineer (often referred to as, Ashrae). It highlights where the gaps and opportunities are, what recommended actions and financial costs are. Up to 50% "Save-On Energy" rebates available.





# Other Tools and Resources

- Our website will feature **tip sheets and downloadable tools**, including an update of our popular “Practical Guide to Improving Energy Efficiency in your Faith Building.”
- We’re hosting **Energy Saving webinars and events**, which will highlight energy conservation, energy efficient retrofits, Energy Star Portfolio Manager training, incentives and funding.
- Our GSS animators will do **free site visits** and present benchmarking program to property/finance committees.
- We will be launching (Summer 2018) a **GTHA Faith Property Manager Network**. A mutual support network for and by faith building managers, trustees and volunteers. Share best practices, resources, service providers to improve the environmental, social, and financial sustainability of faith buildings.





## Next Steps

- ✓ Set up a meeting with your property, finance, environmental committee
- ✓ Explain the program and answer any questions (FCG Animator will present if requested)
- ✓ Send us an email and we'll contact you

[https://faithcommongood.org/energy\\_benchmarking](https://faithcommongood.org/energy_benchmarking)





## CONSERVATION AND DEMAND MANAGEMENT PROGRAMS

# Energy Saving Programs for your Place of Worship

*An overview of Toronto Hydro programs that reward your faith community for saving energy and cutting costs*



January 22, 2018

® A registered trademark of Toronto Hydro Corporation used under license. "Toronto Hydro" means Toronto Hydro-Electric Limited.



ENERGY STAR®  
PortfolioManager®



Faith & the  
Common Good



# Minimizing the Cost Impact of Cap and Trade through Energy Efficiency

Jeff Blunt

Energy Solutions Consultant - Enbridge Gas



Faith & the  
Common Good



# Questions?

## Energy Coordinator:

David Patterson  
Faith & the Common Good,  
[dpatterson@faithcommongood.org](mailto:dpatterson@faithcommongood.org)

## Green Faith Building Audits:

Stephen Collette  
Faith & the Common Good  
[scollette@faithcommongood.org](mailto:scollette@faithcommongood.org)

## Toronto:

Donna Lang,  
Faith & the Common Good  
[dlang@faithcommongood.org](mailto:dlang@faithcommongood.org)

## Halton:

Laura Irvine,  
Halton Environmental Network  
[laura.irvine@haltonenvironment.ca](mailto:laura.irvine@haltonenvironment.ca)

## Hamilton:

Beatrice Ekoko  
Environment Hamilton  
[bekoko@environmenthamilton.org](mailto:bekoko@environmenthamilton.org)

## York:

Harry French  
Climate Wise  
[hfrench@windfallcentre.ca](mailto:hfrench@windfallcentre.ca)





## Faith & the Common Good



We would like to thank OTF for their generosity  
in funding this program.

Ontario  
Trillium  
Foundation



Fondation  
Trillium  
de l'Ontario