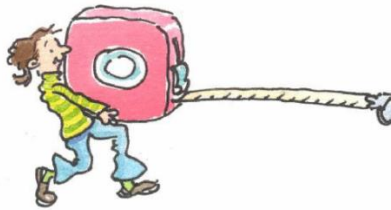




A Project of the Eden Mills Millpond Conservation Association Inc

The Official Guide to the 2013 Eden Mills Carbon Footprint Survey



INTRODUCTION

The Carbon Footprint Survey is the key element in Going Carbon Neutral: we all need to know if and how we are making a difference on the road to carbon neutrality.

The **Fourth Biennial Emissions Survey** will be distributed just before the week of January 12, 2014, and it is to be completed during that week. If you wish to familiarize yourself with the survey now, you may view it online at www.goingcarbonneutral.ca. If you prefer a hard copy, we will deliver one to you. This Guide will assist residents in assembling the necessary background documents, in calculating emissions, and in completing the survey questions. Please note that the survey questions address energy use for twelve months, from **January 1st, 2013 to December 31st, 2013**.

The Guide is for your own preparatory use only. It will not be submitted with the survey.

Students from the University of Guelph are once again working with us to provide the analysis and reports, as well as protecting confidentiality. This is a huge boost to the Going Carbon Neutral project!

The Guide addresses only those survey questions which need clarification. Having the Guide in advance will also help you identify background information you will need to collect in order to answer the questions. If you have any further questions, please contact your neighbourhood survey volunteer.

A few reminders about the value of the survey:

- Your personal information will be kept confidential;
- Results from all households will be totalled by the students in order to calculate the Village footprint and compare it to past results;
- The annual measurement of household emissions is the key to measuring progress, both in your home and in the Village;
- The survey can help identify areas where you can make changes;
- The survey results help the Going Carbon Neutral steering team to identify areas where information and community initiatives can be most helpful to residents.

Thank you very much for your participation. It makes all the difference!

BUILDING TYPES

- Detached Single Family Home - A completely free standing building designed to be occupied by a single group of residents. This does not include houses that have been modified to have separate apartments within them.
- Attached Single Family Home - A single family home that shares one or more above ground walls with neighbouring structures. These buildings typically have dedicated entrances from the outside with no neighbours above or below.
- Apartment Building - A single building that has been purposely built to contain multiple domiciles. These are often multi-story and may have entrances to a communal hallway or lobby area.
- Apartment within a Building - An apartment within a building that was not purposely built to contain multiple domiciles. For example, if a single attached family home has been modified to contain a separate basement and upper floor apartment, the residents of both the basement and upper floor would live in an apartment within a building.
- Mixed Use Building - Any building that contains a combination of residential, commercial and possibly industrial space. This includes store top apartments.
- Institution - Any residence not included in the categories above. This includes but is not limited to staff residences, hotels, retirement community, nursing home and any sort of dormitory style residence.

ENERGY USE

First question: If you have saved your hydro bills from January 2013 until December 2013, you can simply tally the total kilowatt hours (kWh) for which you have been billed throughout the year and enter your result into the survey. A representation of where you will find this information on your monthly electricity bill is included in the following pages.

If you are a customer of Hydro One the easiest way is to call to ask for your kilowatt/hour consumption for the period of January 2013 to December 2013. They will give you the number over the phone or mail it to you at no charge. Call 1-888-664-9376 - Press 4, Press 6 to speak with a representative.

Other energy providers may also be able to tell you your total energy purchases for 2013:

If you are a customer of Superior Propane, you may reach their customer service at 1-877-873-7467 ext.3.

If you are a customer of Sparlings, you may reach customer service at 1-866-517-1717.

If you are a customer of Bluewave Energy, you may reach them at their webpage.

GREEN-SOURCED POWER

Green-sourced power is electricity that is purchased at a premium through an energy provider that offers 100% green energy. An example of this would be electricity purchased through Bullfrog Power Inc.

HEATING FUEL

In order to calculate your heating fuel usage, you will need to collect your bills for each month in 2013. Energy use will depend on your fuel source — electricity, fossil fuel, wood. If you use wood pellets, you need only put the total mass of wood pellets (in lbs) directly into the Survey. The mass in pounds will be included on the wood pellet package. If you use more than one heat source, please include all forms.

Because we heat in a variety of ways, the lay-out of bills also varies. On the following page you will see sample bills, and cord wood measurement guidelines.

FIRE WOOD

A **face cord** is stacked wood that is 8 ft. wide, 4 ft. high and 16” deep (42 cubic ft.)

A **bush cord** is a wood pile that is 8 ft. long, 4 ft. high and 4 ft. wide (128 cubic ft.)

Wood Cord Calculation

A = Length Woodpile _____ ft.

B = Width Woodpile _____ ft.

C = Height Woodpile _____ ft.

D = A x B x C = _____ cubic ft.

Therefore:

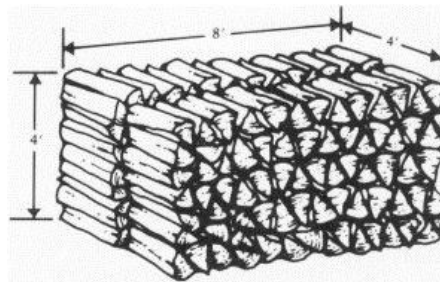
$$E = \frac{D}{4} = \text{_____ face cords}$$

OR

$$E = \frac{D}{128} = \text{_____ bush cords}$$



Face Cord



Bush Cord

ENERGY BILL SAMPLES

Sample Propane Bill



INVOICE

Invoice Number: 06/11/22
 Invoice Date: 06/11/22

Account Number:

Delivery Location:

Date	Order	Ref #	Quantity	Description	Unit Price	Extended Total	Order Total
06/11/17	28892727	111915	525.9	Bulk Propane	.6557/LT	344.83	
			1.0	Transportation Fee	5.00/EA	5.00	
			1.0	Hazardous Mat Handling Fee	3.95/EA	3.95	
				GST/HST		21.23	
				Order Total			375.01
				Location Total			375.01

CURRENT INVOICE TOTAL 375.01

Sample Hydro Bill



How we calculated your charges

Balance forward Amount of your last bill
 Amount we received on September 25, 2009 - thank you
Balance forward \$0.00

Your electricity charges Your service type is Residential High Density

Electricity used this billing period
 We estimated your meter J2628219 on September 14, 2009 009192
 We read your meter on August 13, 2009 - 008413
 Difference in meter readings 000779
 Metered usage in kilowatt-hours (779 x 1) = 779 kWh
 Adjusted usage in kilowatt-hours (779 x 1.085) = 845 kWh

Sample Oil Bill



16 - 44 EAST BEAVER CREEK RD.
 RICHMOND HILL, ON L4B 1G8
 TELEPHONE: (416) 213-7257
 TOLL FREE: 1-800-465-6071

SERVICE ADDRESS:

Account Number

EDEN MILLS, ONTARIO N0B 1P0

STATEMENT

NEW BALANCE
 \$239.87

AMOUNT PAID

TRANSACTIONS AFTER THIS DATE WILL APPEAR ON YOUR NEXT STATEMENT

STATEMENT DATE
022809

MTH.	DAY	YR.	REFERENCE	DESCRIPTION	LITRES	PRICE	TAX	AMOUNT
02	10	09		PAYMENT				540.40
02	17	09	96910	FURNACE OIL	443.5	0.7490		327.24CR
02	17	09		G. S. T.				332.18
02	27	09		PAYMENT				16.61
								322.08CR

ESTIMATING GROSS FLOOR AREA

To estimate the gross heated floor area of your home, you can either consult the property survey or measure it yourself. Below is a guide for doing such measurement.

1. Measure the distance for each pace (the length of your stride) in feet or metres
MY pace=_____ feet/metres
2. **LENGTH:** Walk across the length of your house (outside wall to outside wall) counting your paces.
Length=_____number of paces
Length: _____ paces x distance/pace _____=**LENGTH**____(feet or metres)
3. **WIDTH:** Walk across the width of your house (outside wall to outside wall) counting your paces.
Width=_____number of paces
Width: _____paces x distance/pace _____=**WIDTH**____(feet OR metres)
4. Single Floor area = **LENGTH X WIDTH** _____ (feet OR metres)
5. **Repeat** for each floor in your house
6. **TOTAL Gross floor area = Sum of total floor area for each floor in your house (include only heated livable spaces)**

Enter your result into the corresponding survey question.

TRANSPORTATION

Land Travel

For determining the Fuel Efficiency of your vehicle:

- 1) Fill up your vehicle with fuel.
- 2) Reset your trip odometer to 0.
- 3) When fuel tank is low, fill up the tank again and record the number of litres required to fill it up.
- 4) Take the kilometres traveled since the first fill up and divide that by the number of litres required to fill up the tank the second time.
- 5) This is the fuel efficiency of your car in km/L.

Note: It is preferable to measure several fill-ups to get a truly accurate reading.

On-line converts can help you convert miles/gallon to L/100 km

http://calculator-converter.com/1_100km_mpg_convert_mpg_to_l_per_100_km.php

Air Travel

All air travel by all members of your household, regardless of purpose, is calculated by tallying all one-way trips. A one-way trip is defined as a voyage via air to a specified destination. For example, if you fly from Toronto to Vancouver with a layover in Calgary, the trip was done in two segments, with the first flight from Toronto to Calgary, and the second segment from Calgary to Vancouver. The entire voyage to Vancouver would count as 2 single one-way trips. A return trip with the same transfer/layover in Calgary would count as another 2 single one-way trips. In total, your trip would be 4 one-way trips; if one member of your family were to join you, it would be counted as 8 one-way trips. The length of the trips is explained in the survey.

**Thank you for your interest and participation in the Eden Mills Going Carbon Neutral Program!
If you have any questions or concerns regarding the survey, please contact your survey
volunteer/neighbour.**