

## Thank you for participating in the carbon calculator!

By completing a short survey, you will receive a calculation of your greenhouse gas (GHG) emissions, measured in carbon dioxide equivalents (CO<sub>2</sub>e). Before you begin, please review

- The carbon calculator survey will take approximately 15 minutes to complete.
- Unless instructed, do not leave questions blank. If you do not use a certain type of fuel, please input '0' as your answer.
- Gather your utility and energy bills before starting. Using these will give the most accurate results.
- Put together a list of the vehicles and boats you own. How much you use these vehicles will determine your transportation emissions.
- Think about what can be found in your garbage cans. You will be asked about the quantity, and types of garbage you produce.

Questions will be asked in the following categories:



Buildings



Transportation



Waste

### Your Participation is Important!

The carbon calculator has been developed as an educational tool, and as a method for collecting data as part of the Integrated Community Energy & Climate Action Plans (ICECAP) partnership, Georgian Bay Biosphere's Climate Action Strategy, and State of the Bay reporting. **Data will be used in the following ways:**

- Monitor local energy and greenhouse gas emission trends.
- Develop energy and greenhouse gas emission trends.
- Contribute to the development of local climate action and energy plans.
- Identify opportunities for energy efficiency, reducing greenhouse gas emissions, and saving money on energy in our communities.

### Privacy Policy

*Participation in the carbon calculator is voluntary. By voluntarily completing the carbon calculator, you are consenting to having your data included in the ICECAP partnership, State of the Bay, and Georgian Bay Biosphere Climate Action Strategy. The Georgian Bay Biosphere will not publish or release statistics or information that can be connected to any identifiable person, building, business or organization. All data collected through the carbon calculator will be aggregated into broad categories and reported at the jurisdictional level.*

If you have any questions, comments, or concerns about the carbon calculator, please contact the Georgian Bay Biosphere's Climate Change & Energy Specialist at: [climate@gbbr.ca](mailto:climate@gbbr.ca)



Please complete the following personal information. This information is needed to allocate your data to your respective region and for data management purposes.

First Name: \_\_\_\_\_

Last Name: \_\_\_\_\_

Town/ Township/ First Nation: \_\_\_\_\_

Province: \_\_\_\_\_

Postal Code: \_\_\_\_\_

**Would you like to enter into the carbon calculator contest?**

The Carbon Calculator Contest is effective August 17, 2020 to November 4, 2020

- A) Yes
- B) No

**Do you wish to have your greenhouse gas emission results sent to you?**

- A) Yes
- B) No

If you have answered '**YES**' to either of the questions above, please provide your email. Your email will only be used for contest purposes and sending you your results.

E-mail (Optional): \_\_\_\_\_

**1. Why type of building are you recording energy information for?**

- A) Permanent Residence
- B) Seasonal Residence
- C) Commercial or Institutional
- D) Industrial

**2. If you have selected seasonal residence, in which of the following Municipalities or First Nations is this residence located?**

If you selected permanent residence, commercial, or industrial to question 1, do not complete this question.

- A) Township of the Archipelago
- B) Township of Carling
- C) Township of Georgian Bay
- D) Township of McDougall
- E) Township of McKellar
- F) Town of Parry Sound
- G) Township of Seguin
- H) Township of Whitestone
- I) Chimnissing First Nation
- J) Dokis First Nation
- K) Henvey Inlet First Nation
- L) Magnetawan First Nation
- M) Moose Deer Point First Nation
- N) Shawanaga First Nation
- O) Wahta Mohawk First Nation
- P) Other, Please Specify: \_\_\_\_\_

**3. If you have selected seasonal residence, approximately how many months of the year does your household occupy this seasonal residence for?**

If you selected permanent residence, commercial, or industrial to question 1, do not complete this question.

Answer: \_\_\_\_\_

**4. Please indicate the number of people that typically live in or occupy this dwelling.**

Answer: \_\_\_\_\_

**5. What is your source for providing this building's energy information?**

- A) Utility and energy bills (preferred)
- B) Estimating

**6. On average, approximately how much electricity, in kilowatt hours (kWh), do you use per year?**

The average home in Ontario uses 750 kWh of electricity per month, or about 9,000 kWh per year.

Answer: \_\_\_\_\_

**7. On average, approximately how much natural gas, in cubic metres (m<sup>3</sup>), do you use per year?**

The average home in Ontario uses approximately 2,690 cubic metres of natural gas for heating per year.

Answer: \_\_\_\_\_

**8. On average, approximately how much propane, in litres (L), do you use per year?**

The average home in Ontario uses approximately 1,110 litres of propane for heating per year.

Answer: \_\_\_\_\_

**9. On average, approximately how much fuel oil or heating oil, in litres (L), do you use per year?**

The average home in Ontario uses approximately 1,690 litres of fuel oil or heating oil for heating per year.

Answer: \_\_\_\_\_

**10. Do you use any additional forms of energy to power, heat, or cool this building?**

- A) Solar
- B) Wind
- C) Geothermal
- D) Other, Please Specify: \_\_\_\_\_

**11. Do you use wood or wood pellets for heating, cooking, or other purposes?**

- A) Yes
- B) No

If you answered 'YES' to question 11, please complete questions 12, 13, and 14. If you answered 'NO' to question 11, please proceed to question 15.

**12. Do you use wood or wood pellets as your primary source for heating or to supplement the use of other fuels listed above?**

- A) Primary
- B) Secondary

**13. Through which method do you burn wood or wood pellets?**

- A) Conventional Stove or Fireplace
- B) Stove or Fireplace with High Efficiency or Advanced Technology
- C) Pellet Stove
- D) Other, Please Specify: \_\_\_\_\_

**14. On average, approximately how many cords of wood or kilograms of wood pellets do you use per year?**

Answer: \_\_\_\_\_

**15. Does your household or business own or lease any on-road vehicles? This includes cars, trucks, vans, hybrids, or any other vehicle that consumes gasoline, diesel, or electricity as a fuel source.**

- A) Yes
- B) No

If you answered 'YES' to question 15, please complete question 16. If you answered 'NO' to question 15, please proceed to question 29.

**16. What types of on-road vehicles are owned or leased? Circle all that apply.**

- A) Car
- B) Electric Vehicle
- C) Gas Hybrid
- D) Motorcycle
- E) Plug-in Hybrid Electric Vehicle
- F) Truck, Van, or SUV

If you circled 'Car' in question 16, please complete questions 17 and 18.

**17. How many cars does your household or business own?**

- A) 1
- B) 2
- C) 3
- D) 4

**18. Please describe each car.**

The average Ontarian drives approximately 16,000km per year.

**Car #1**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Fuel Type: \_\_\_\_\_
- E) Kilometres Traveled per Year: \_\_\_\_\_

**Car #2**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Fuel Type: \_\_\_\_\_
- E) Kilometres Traveled per Year: \_\_\_\_\_

**Car #3**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Fuel Type: \_\_\_\_\_
- E) Kilometres Traveled per Year: \_\_\_\_\_

**Car #4**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Fuel Type: \_\_\_\_\_
- E) Kilometres Traveled per Year: \_\_\_\_\_

If you circled '**Electric Vehicle**' in question 16, please complete questions 19 and 20.

**19. How many electric vehicles does your household or business own?**

- A) 1
- B) 2

**20. Please describe each electric vehicle.**

The average Ontarian drives approximately 16,000km per year.

**Electric Vehicle #1**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Kilometres Traveled per Year: \_\_\_\_\_

**Electric Vehicle #2**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Kilometres Traveled per Year: \_\_\_\_\_

If you circled '**Gas Hybrid**' in question 16, please complete questions 21 and 22.

**21. How many hybrid vehicles does your household or business own?**

- A) 1
- B) 2

**22. Please describe each hybrid vehicle.**

The average Ontarian drives approximately 16,000km per year.

**Hybrid Vehicle #1**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Kilometres Traveled per Year: \_\_\_\_\_

**Hybrid Vehicle #2**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Kilometres Traveled per Year: \_\_\_\_\_

If you circled **'Motorcycle'** in question 16, please complete question 23 and 24.

**23. How many motorcycles does your household or business own?**

- A) 1
- B) 2

**24. Please describe each motorcycle.**

The average Ontarian drives approximately 16,000km per year.

**Motorcycle #1**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Kilometres Traveled per Year: \_\_\_\_\_

**Motorcycle #2**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Kilometres Traveled per Year: \_\_\_\_\_

If you circled **'Plug-in Hybrid Electric Vehicle'** in question 16, please complete questions 25 and 26.

**25. How many plug-in hybrid electric vehicles does your household or business own?**

- A) 1
- B) 2

**26. Please describe each plug-in hybrid electric vehicle.**

The average Ontarian drives approximately 16,000km per year.

**Plug-in Hybrid Electric Vehicle #1**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Kilometres Traveled per Year: \_\_\_\_\_

**Plug-in Hybrid Electric Vehicle #2**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Kilometres Traveled per Year: \_\_\_\_\_

If you circled **'Truck, Van, or SUV'** in question 16, please complete questions 27 and 28.

**27. How many trucks, vans, or SUVs does your household or business own?**

- A) 1
- B) 2
- C) 3
- D) 4

**28. Please describe each truck, van, or SUV.**

The average Ontarian drives approximately 16,000km per year.

**Truck, Van, or SUV #1**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Fuel Type: \_\_\_\_\_
- E) Kilometres Traveled per Year: \_\_\_\_\_

**Truck, Van, or SUV #2**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Fuel Type: \_\_\_\_\_
- E) Kilometres Traveled per Year: \_\_\_\_\_

**Truck, Van, or SUV #3**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Fuel Type: \_\_\_\_\_
- E) Kilometres Traveled per Year: \_\_\_\_\_

**Truck, Van, or SUV #4**

- A) Make: \_\_\_\_\_
- B) Model: \_\_\_\_\_
- C) Year: \_\_\_\_\_
- D) Fuel Type: \_\_\_\_\_
- E) Kilometres Traveled per Year: \_\_\_\_\_

**29. Does your household or business own any off-road vehicles? This includes ATVs, UTVs, dirt bikes, snowmobiles, or other off-road vehicle that consumes gasoline or diesel as a fuel source.**

- A) Yes
- B) No

If you answered 'YES' to question 29, please complete question 30 and 31. If you answered 'NO' to question 29, please proceed to question 32.

**30. How many off-road vehicles does your household or business own?**

- A) 1
- B) 2
- C) 3
- D) 4



**31. Please describe each motorized off-road vehicle**

**Off-Road Vehicle #1**

- A) Type: \_\_\_\_\_
- B) Engine Cubic Centimetres (CCs): \_\_\_\_\_
- C) Engine Cycle (please circle one): 2-Stroke or 4-Stroke
- D) Operating Hours per Year: \_\_\_\_\_

**Off-Road Vehicle #2**

- A) Type: \_\_\_\_\_
- B) Engine Cubic Centimetres (CCs): \_\_\_\_\_
- C) Engine Cycle (please circle one): 2-Stroke or 4-Stroke
- D) Operating Hours per Year: \_\_\_\_\_

**Off-Road Vehicle #3**

- A) Type: \_\_\_\_\_
- B) Engine Cubic Centimetres (CCs): \_\_\_\_\_
- C) Engine Cycle (please circle one): 2-Stroke or 4-Stroke
- D) Operating Hours per Year: \_\_\_\_\_

**Off-Road Vehicle #4**

- A) Type: \_\_\_\_\_
- B) Engine Cubic Centimetres (CCs): \_\_\_\_\_
- C) Engine Cycle (please circle one): 2-Stroke or 4-Stroke
- D) Operating Hours per Year: \_\_\_\_\_

**32. Does your household or business own a motorized watercraft? This includes boats, jet skis, or any other watercraft that consumes gasoline or diesel as a fuel source.**

- A) Yes
- B) No

If you answered 'YES' to question 32, please complete question 33 and 34. If you answered 'NO' to question 32, please proceed to question 35.

**33. How many motorized watercraft does your household or business own?**

- A) 1
- B) 2
- C) 3
- D) 4

**34. Please describe each motorized watercraft.**

Do not include hours of use that the motor is not turned on or an electric trolling motor is propelling the watercraft. Please only include hours that the watercraft spends travelling.

If your watercraft is powered by multiple motors please indicate their cumulative horsepower. For example, a boat with two 250HP motors should be reported as 500HP.

**Watercraft #1**

- A) Type: \_\_\_\_\_
- B) Engine Cubic Centimetres (CCs): \_\_\_\_\_
- C) Engine Cycle (please circle one): 2-Stroke or 4-Stroke
- D) Operating Hours per Year: \_\_\_\_\_

**Watercraft #2**

- A) Type: \_\_\_\_\_
- B) Engine Cubic Centimetres (CCs): \_\_\_\_\_
- C) Engine Cycle (please circle one): 2-Stroke or 4-Stroke
- D) Operating Hours per Year: \_\_\_\_\_

**Watercraft #3**

- A) Type: \_\_\_\_\_
- B) Engine Cubic Centimetres (CCs): \_\_\_\_\_
- C) Engine Cycle (please circle one): 2-Stroke or 4-Stroke
- D) Operating Hours per Year: \_\_\_\_\_

**Watercraft #4**

- A) Type: \_\_\_\_\_
- B) Engine Cubic Centimetres (CCs): \_\_\_\_\_
- C) Engine Cycle (please circle one): 2-Stroke or 4-Stroke
- D) Operating Hours per Year: \_\_\_\_\_

**35. On average, approximately how many large-sized garbage bags does the building listed above produce in a month? A large-sized garbage bag holds roughly 90L.**

Answer: \_\_\_\_\_

**36. Of your garbage produced in a month, approximately how much is the following as a percentage?**

Percentages do not need to total to 100%. Waste production quantities are variable, and some waste may not fit under these categories.

- A) Food: \_\_\_\_\_%
- B) Plant & Garden: \_\_\_\_\_%
- C) Paper & Cardboard: \_\_\_\_\_%
- D) Wood Products: \_\_\_\_\_%
- E) Textiles: \_\_\_\_\_%
- F) Plastics, Glass, Metals, etc.: \_\_\_\_\_%
- G) Other: \_\_\_\_\_%

**37. Does your household or business compost off-site?**

- A) Yes
- B) No

**38. If a local composting facility existed, would you be more likely to compost?**

- A) Yes
- B) No

**39. In the space below, please provide any comments, input, or projects that you would like to see in your community that relate to climate change, energy, or in general.**

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**40. What percent (%) do you think your community should reduce its GHG emissions, by 2030?**

Answer: \_\_\_\_\_

**41. What percent (%) do you think your community should reduce its GHG emissions, by 2050?**

Answer: \_\_\_\_\_

**42. Would you like your greenhouse gas emission results sent to you? If yes, please provide your email at the beginning of the carbon calculator survey.**

- A) Yes
- B) No