

# **Muskoka Watershed Council**

# About this Presentation





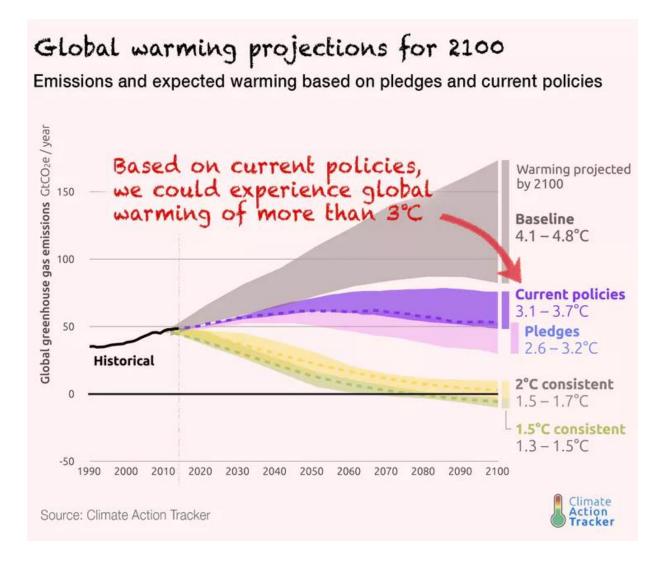


# Why is a reducing our Carbon Footprint Important?

- Climate change is already happening around us
- IPCC's 2018 climate change report
- Environmental Commissioner of Ontario's 2018
  - climate change report
- Global and local impacts
- Environmental, social & economic costs



# Global Warming Projections











# Progress Doesn't Mean Sacrificing the Economy

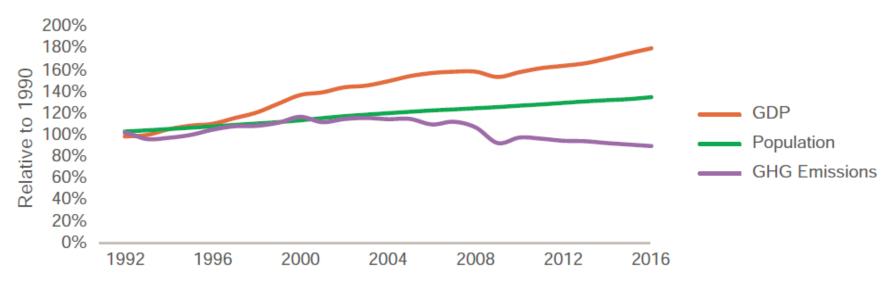


Figure 1.16. Ontario's historical greenhouse gas (GHG) emissions relative to gross domestic product (GDP) and population.

Source: Statistics Canada, Gross domestic product, expenditure-based, provincial and territorial (2018), CANSIM Table 384-0038; Statistics Canada, Population by year, by province and territory (2018), CANSIM Table 051-0001.



# There are good news stories!!

- Globally the amount of protected area is >15% with a target of 17% by 2020
  - Canada on track to meet land target and 10% of oceans and coast
- NASA has found evidence that the hole in the ozone layer is recovering
- The World Bank announced it will no longer finance Oil and Gas Exploration
- Honey bee populations are on the rise
- U.S. has more trees now than it did 10 years ago

## Elements of an Effective Climate Action Plan Some District Actions

#### **Mitigation**

- Leadership in GHG Reduction
- Energy Efficiency
- Renewable Energy
- Fuel Efficiency & Electric Vehicles
- Capture and use of Landfill gas
- Implementing
   Green or
   Sustainable
   Building
   Standards

# • Green Infrastructure

- Water & Energy Conservation
  - Building Weatherization
  - Solar Energy
    - Watershed Management
- Electrical System Resiliency
  - Storm water management plan

#### **Adaptation**

- Forest Protection
- Infrastructure & Building Design
- Flood Prediction and Mitigation
- Emergency Response Plans
- Business Continuity
   Plans
- Community
   Engagement
- Asset Mgmt Plans
- Vector Bourne Disease Monitoring

**Mitigation** – Actions to reduce emissions that contribute to climate change and increase sustainability

**Adaptation** – Actions that minimize or prevent the negative impacts of climate change

# A Carbon Footprint is Two Parts:

**Primary Footprint** 

**Secondary Footprint** 

- The primary footprint is a measure of our direct emissions of CO<sub>2</sub>
- The secondary footprint is a measure of our indirect CO<sub>2</sub> emissions



Ontario has one of the highest per capita GHG emission footprints in the world...



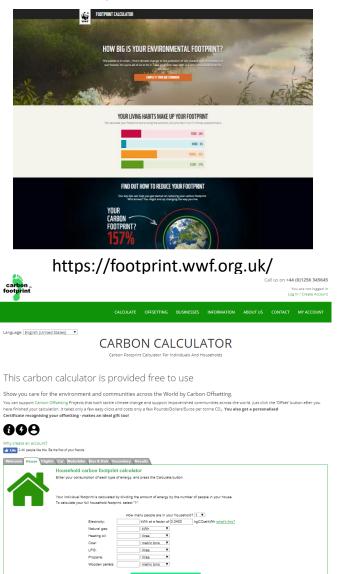


Canada's carbon emission were ranked 10<sup>th</sup> in the world in 2018 by the Global Carbon Atlas despite being ranked 38<sup>th</sup> in population.

November 14<sup>th</sup>, 2018 – Globe and Mail article published that Canadians produce three times more greenhouse gas emissions than the G20 average.



#### A variety of free calculators of differing complexity and for all ages



Zerofootprint
Youth Calculator

Get Started

Get Started

Teacher's Guide
Teacher's Guide
The Results So Far

https://calc.zerofootprint.net/

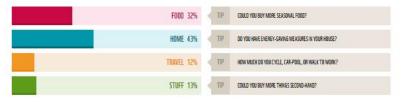


http://web.stanford.edu/group/inquiry2insight/cgi-bin/i2sea-r3b/i2s.php?page=calculate

Total House Footprint = 0.00 metric tons of CO2e Offset Now

#### My carbon footprint... Not Ideal...





+ 3.06 TONNES GOVERNMENT EXPENDITURE PER PERSON

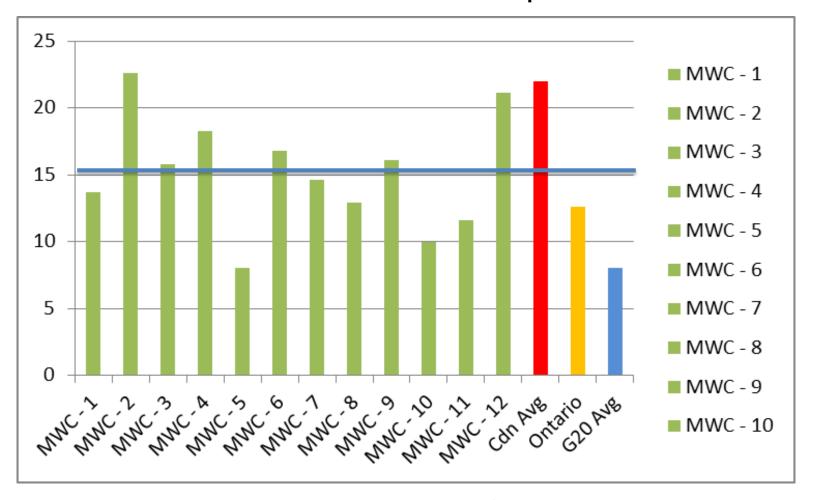
#### WHAT CAN I DO?

VIEW OUR TOP TIPS TO SHRINK YOUR FOOTPRINT

#### YOUR TOTAL ANNUAL CARBON EMISSIONS



### MWC's Carbon Footprint



MWC's Average is 15.1 Can we reduce this 10% in a year?



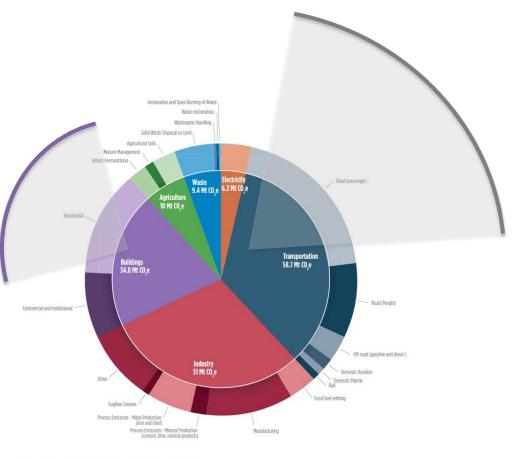


Figure 2: Ontario's 2014 Greenhouse Gas Emissions by Sector

Source: Environment and Climate Change Canada, National Inventory Report 1990-2014: Greenhouse Gas Sources and Sinks in Canada, Part 3, Table A11-12, (2016), p.55.

# **Three Major Impact Areas**

- 1) Personal travel: what you drive, how much you drive and how much you fly.
- 2) Home energy use:
  electricity, oil and gas,
  insulation, location of trees,
  LEDs, efficiency of
  appliances, etc.
- **3) Your diet**: How much meat, how far it travels, seasonal, sustainable seafood, composting and recycling etc.

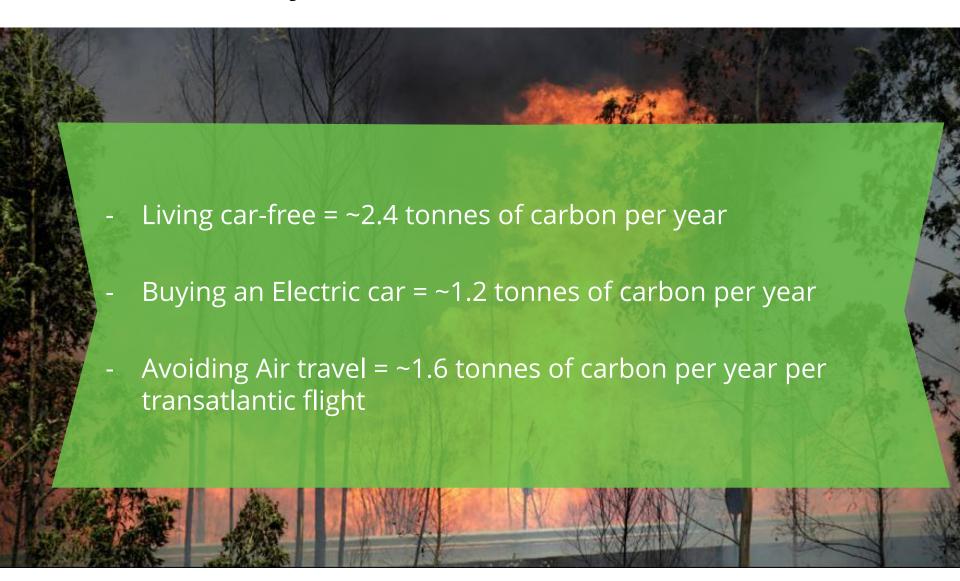


### What can you do at home? Life



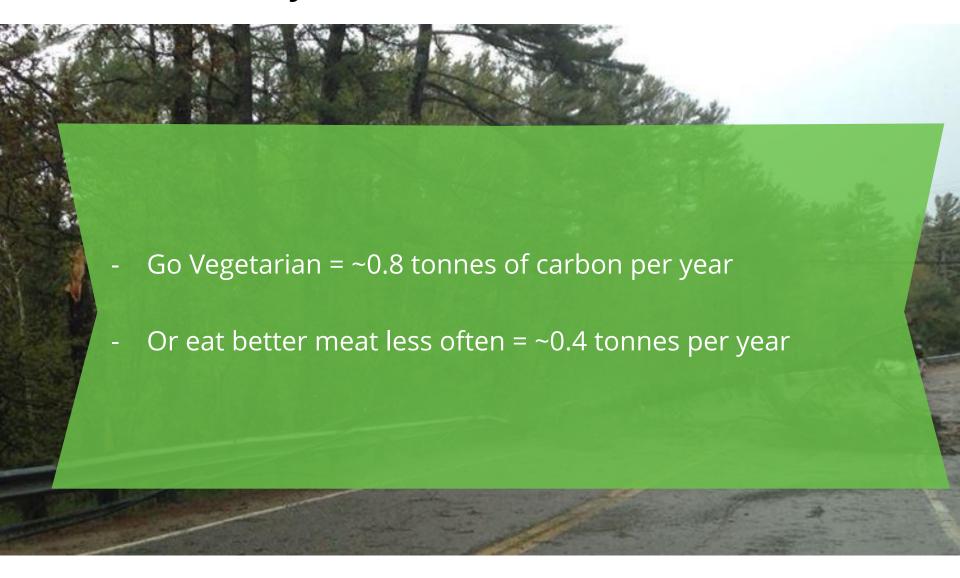


## What can you do at home? Travel



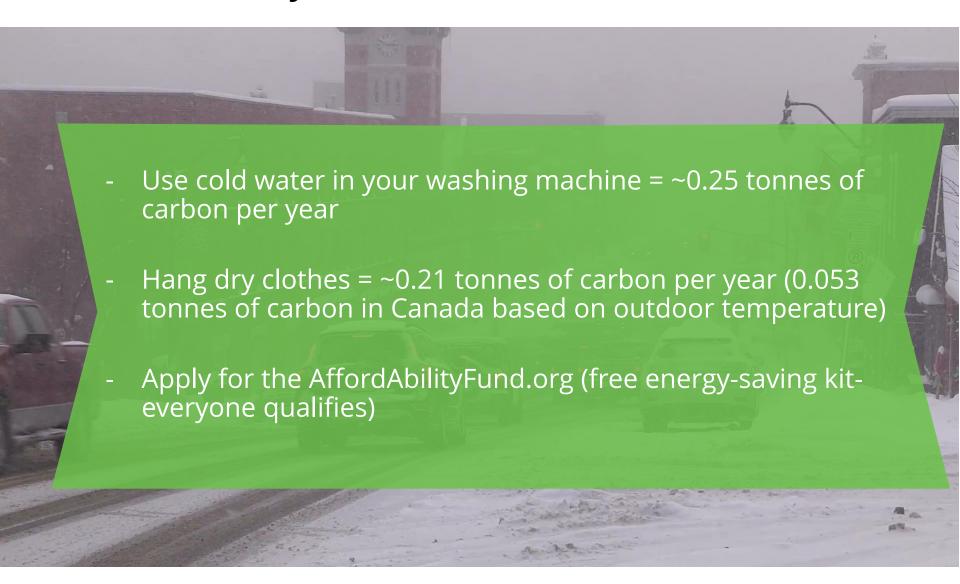


## What can you do at home? Diet





### What can you do at home? House





# Let's Track our Carbon Footprint and Reduce

Challenge everyone to try their carbon footprint

Let's See who can reduce their footprint the most over the next year

Start by signing up for the AffordAbilitFund



