

The Freshwater Connection

Publication of the Central Algoma Freshwater Coalition - Spring 2022

Mitigating Climate Change



Held at the Johnson Township Community Centre in Desbarats, ON

**SUSTAIN
ALGOMA**

EXPO

2022

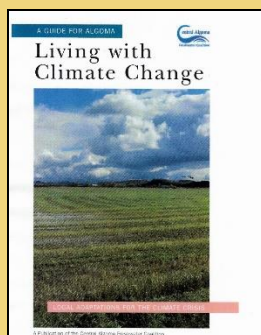
www.sustainalgomaexpo.com

July 16th
9am-2pm

Save the Date

July 16, 2022

Sustain Algoma Expo is back



Living With Climate Change

CAFC has just published a new 16 page guide on - Local Adaptations for the climate crisis (low carbon future) - watch for hard copies or see online

www.centralalgomafreshwatercoalition.ca

under the resources - reports - tabs

Climate Change - CO2 Canada

As **Canadians** we are among the top (7th) CO2 emitters in the world per capita.

Canadians are affluent, have a large geography, produce oil and gas and have winter.

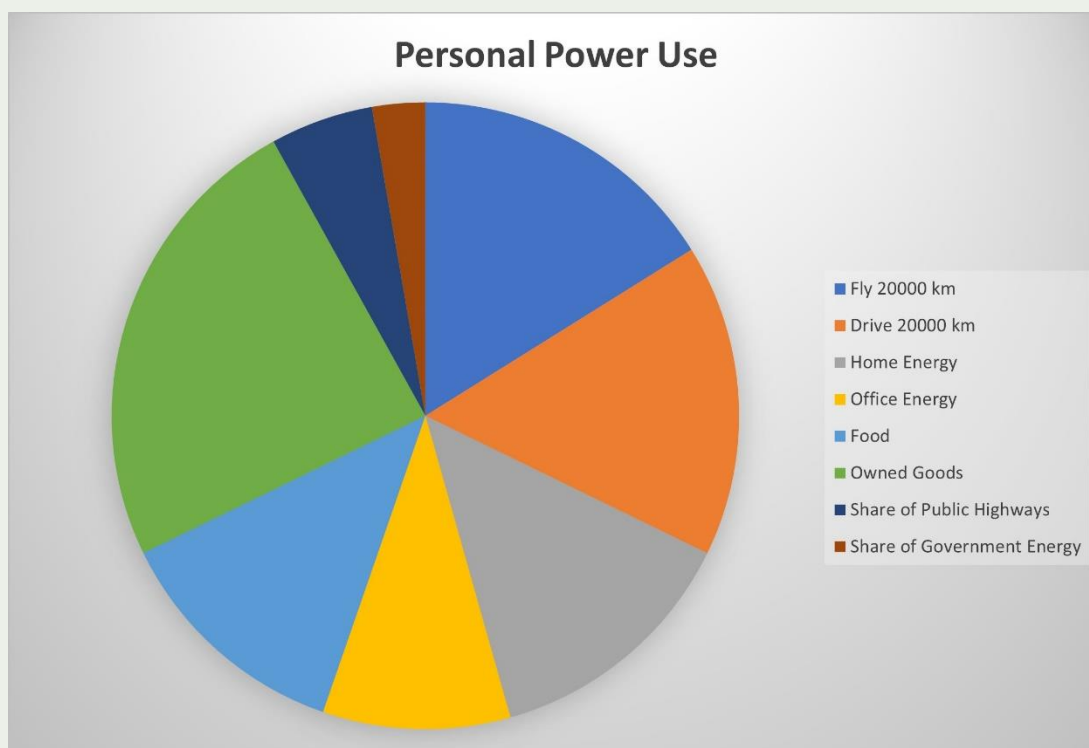
Canadians emit 18.58 tons per capita.

The USA (15th) is at 15.52, **Norway 8.28**, China 7.38, and India 1.91. **The world average is 4.79.**

Canada needs to reach net-zero by 2050 and by 2030 a 40-45% (7 - 8 tons) reduction of 2005 levels - in just less than 8 years.

The **largest share of total emissions** are China 29%, USA 14%, India 7%, Russia 5%, Japan 5%, Germany 2% and **Canada 2%**. (more than 200 other countries in total 36%)

Canada's biggest emitters are **producing oil & gas 26%** and **transportation 25%**



Personal climate change is different from national as many of our manufactured goods are imported and count in the per capita numbers in those countries. Canadians produce and export oil and gas. **Keep in mind that many manufactured goods maybe made with electricity generated in coal fired generating plants.**

How Do We Meet Our CO2 Targets

Assuming people want a lifestyle similar to or better than what we currently have we need to switch from fossil fuels to “green energy” wind, solar, hydro electric, biofuels and nuclear.

Green Energy

Ontario already has a desirable green energy grid with nuclear being refurbished, hydro electric, wind and solar. Gas powered electric generation is used to meet peak demand in Ontario. In Algoma we really are all about “green energy” already. Since we are ending fossil fuels we will need to make more green energy; make more efficient use of what we already have; and the electrical grid will need improvements.

Oil & Gas

- Support the phase out of fossil fuels - we will need to work with the oil and gas industry. The industry has given us the life we presently enjoy. The industry has infrastructure and reserves that have been developed at considerable expense. Some reserves may not be used (stranded asset)
- Capture oil and gas carbon at the production sources (uses more energy to capture and store)
- Capture carbon from the atmosphere (experimental)

Transportation

- Switching to electric vehicles is likely the most realistic thing individuals in Algoma can do to meet CO2 targets. EVs have larger upfront costs but can run at less cost than gas vehicles. They should soon become more available and affordable
- You may want to think about installing home or tourism business EV chargers. Chargers for the travelling public will also be required.
- Short haul electric aircraft and long haul aircraft that use biofuels are under development
- Consider vacation alternatives closer to home



Home

- Home Heating - natural gas is currently cheaper than electricity for home heating with traditional baseboard electric heaters. Electric heat pumps or heat pump hybrid systems could be a viable system if you are building new or replacing your existing heating system.
- The future may hold solar panels on the roof and washing machine size storage battery in the basement. Something to consider if you are building new or renovating.

Owned Goods and Food

- When considering food choices consider local food
- Many manufactured goods are imported from places that utilize electricity generated from coal.

Work Place and Government

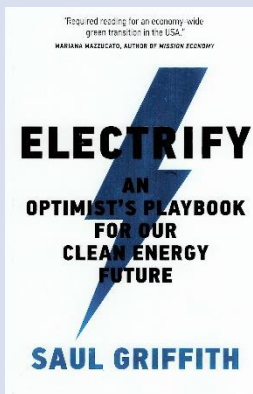
- Many small businesses and municipalities are similar in needs to individual homes
- Support new industrial processes such as “green steel”
- There will be many new opportunities to develop new technology and make existing items longer lasting and efficient
- Consider creating communities that promote walking; cycling; and local amenities and events.



Better Living

- People may decide to make other life style choices - walking more, living closer to work, riding bicycles, electric scooters, drive less, fly less, smaller homes, take public transit ...

Read More



Electrify an Optimist's Playbook for our Clean Energy Future

by Saul Griffith

The MIT Press, Cambridge Massachusetts, 2021,
Massachusetts's Institute of Technology

To Think About

Wealthy people set the tone on consumption to which others aspire – outsized carbon footprints entrench inequities and threaten the world’s ability to stave off catastrophic climate change.

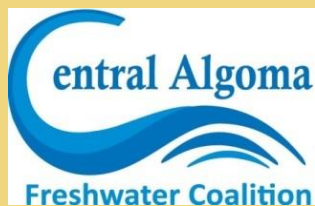
The top 1% are responsible for 15% of emissions, the top 10% are responsible for 50% of emissions – the world’s poorest 50% are responsible for only 7% of emissions – need to make space for the poorest 50% to grow their emissions.

Income over \$38,000 puts you in the top 10% in the world and income over \$109,000 puts you in the top 1% of the world
(Source Oxfam/Stockholm Environmental Institute)

Be grateful – you are fortunate to live in Canada.



Become a Member



Your annual membership fee will provide a base budget for work of CAFC and demonstrate the commitment of local partners working towards a common goal. A strong diverse group is an essential component in meeting the goals of the Central Algoma Region. Support us at <https://www.centralalgomafreshwatercoalition.ca/>

