



## About For Our Grandchildren

Our mission is to educate the public about climate change and to mobilize citizens and politicians at all levels to take action.

## Want to Make a Difference? Join us.

As a citizen you offer a special and powerful voice in the movement to transition to a clean energy economy.

Visit our website at: **[forourgrandchildren.ca](http://forourgrandchildren.ca)**

– and –

- Click the **Join** button to become a member and consider volunteering with 4RG to help fight the climate crisis;
- Hit the **Subscribe** button to receive our informative newsletter and learn the latest climate news;
- Please click on **4RG Meets** and join us from 7:00–8:00 pm on the second (or first) Monday of each month for an online presentation by a local expert on a topic related to the climate crisis.  
To register for the next 4RG Meets, follow the link on our site or, email directly: **[4RGmeets@gmail.com](mailto:4RGmeets@gmail.com)**
- Please consider the **Donate** button on our website to help fund our work; and

Please tell your friends and family about us. Contact us for more information at:

**[contactus@forourgrandchildren.ca](mailto:contactus@forourgrandchildren.ca)**

## Climate Change is Happening Now *Peterborough is Changing*

### Have You Noticed?

- More intense storms, with heavier rainfall and flooding
- Much milder winters on average, making backyard rinks hard to maintain
- More summer days above 30 °C. (*35 days in Peterborough in 2020*)
- Earlier spring blooming, insect emergence and robins
- Earlier ice-out and later freeze-up of our lakes
- Increased pollen levels and longer pollen season worsening allergies
- More algae, aquatic weeds, invasive plant species in our lakes
- The arrival of southern species like opossums, bobcats, southern flying squirrels, and red-bellied woodpeckers
- Far fewer monarch butterflies, frogs, and bumble bees
- Increasing cases of Lyme disease due to invading tick species

### Why is the Climate Changing?

**I**N millions of years, our world has been hotter and colder than it is now. But today we are experiencing unprecedented heating from human activities, primarily due to burning fossil fuels (gas, oil, coal) that generate carbon dioxide, a green house gas.

We have reached historic levels of carbon dioxide in our atmosphere – **420 parts per million (PPM) as of April 2022.**

Scientists agree that safe levels are below **350 PPM.**

## What are the Effects?

The Earth is now about **1.1°C warmer** than it was in the 1800s and science tells us that 1.5°C is considered the upper limit to avoid the worst fallout from climate change. The profound consequences of climate heating include:

- Extreme weather-droughts, floods, fires, heat domes, blizzards and ice storms
- Melting ice caps, ocean rise, ocean acidity
- Disappearing species on land and in water
- Decrease in global food production
- Increasing global conflict over resources and mass migration
- Decreasing human health. Every year, environmental factors take the lives of approximately thirteen million people.



## Is there Hope? Yes!

### Did you know?

- There is enough solar energy reaching Earth every hour to fill all the world's energy needs for a full year!
- Globally, wind could supply worldwide electricity consumption forty times over!
- Transforming to a green economy will create new Canadian jobs. Canada's clean energy sector already employs over **430,000 Canadians** and by 2030, that number is projected to grow almost **50% to 639,200**. By 2025 clean tech's contribution to Canada's GDP is expected to grow to \$80 billion! ([www.cleanenergycanada.org](http://www.cleanenergycanada.org))

## What can you do? Five powerful actions you can take:

- 1. Acknowledge the climate crisis and talk** to friends and family about it. Talk about your personal hope and vision for a sustainable future. Our politicians need to hear our voices and they can't if we are silent.
- 2. Be hopeful.** Hope abounds and it is one of our most important tools. There are many who are leading the transition to renewable energy. We all need to get on board.
- 3. Remember all our actions matter.** We need to reduce our emissions at home AND collectively to be effective. It is empowering to make positive changes and it serves to inspire others. ([davidsuzuki.org/queen-of-green/](http://davidsuzuki.org/queen-of-green/))
- 4. Join others** in your community who are coming together to protect ourselves and our neighbours, defend nature, and our economic and personal health. It starts at the community level, but the impacts can be global.
- 5. Demand bold and ambitious climate action.** We need to demand **all levels of government act on climate change**. This includes calling/emailing/writing our political representatives and demanding action. It also includes **voting** for political parties that support the strongest climate policies.

Please consider getting personally involved in working for political parties acting on the climate. Additionally, consider donating to organizations and parties that will address this crisis.

## Want to help/find out more?

**To All Our Relatives:** [www.toallourrelatives.ca/](http://www.toallourrelatives.ca/)

**Peterborough Alliance for Climate Action:** [www.facebook.com/pages/category/Community/Peterborough-Alliance-for-Climate-Action-2171376309776570/](https://www.facebook.com/pages/category/Community/Peterborough-Alliance-for-Climate-Action-2171376309776570/) Climate

**Peterborough Youth Empowerment:** [www.facebook.com/peterboroughyouthempowerment](https://www.facebook.com/peterboroughyouthempowerment)

**Transition Town Peterborough:** [new.transitiontownpeterborough.ca](http://new.transitiontownpeterborough.ca)

**David Suzuki Foundation:** [davidsuzuki.org/](http://davidsuzuki.org/)

**City of Peterborough:** [www.peterborough.ca/en/city-hall/climate-action-in-peterborough](http://www.peterborough.ca/en/city-hall/climate-action-in-peterborough)

**Greenup Peterborough :** [www.greenup.on.ca](http://www.greenup.on.ca)