

Contact

Sierra Club Canada - Atlantic Chapter

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CLIMATE CHANGE is a long-term shift in average weather conditions over time...

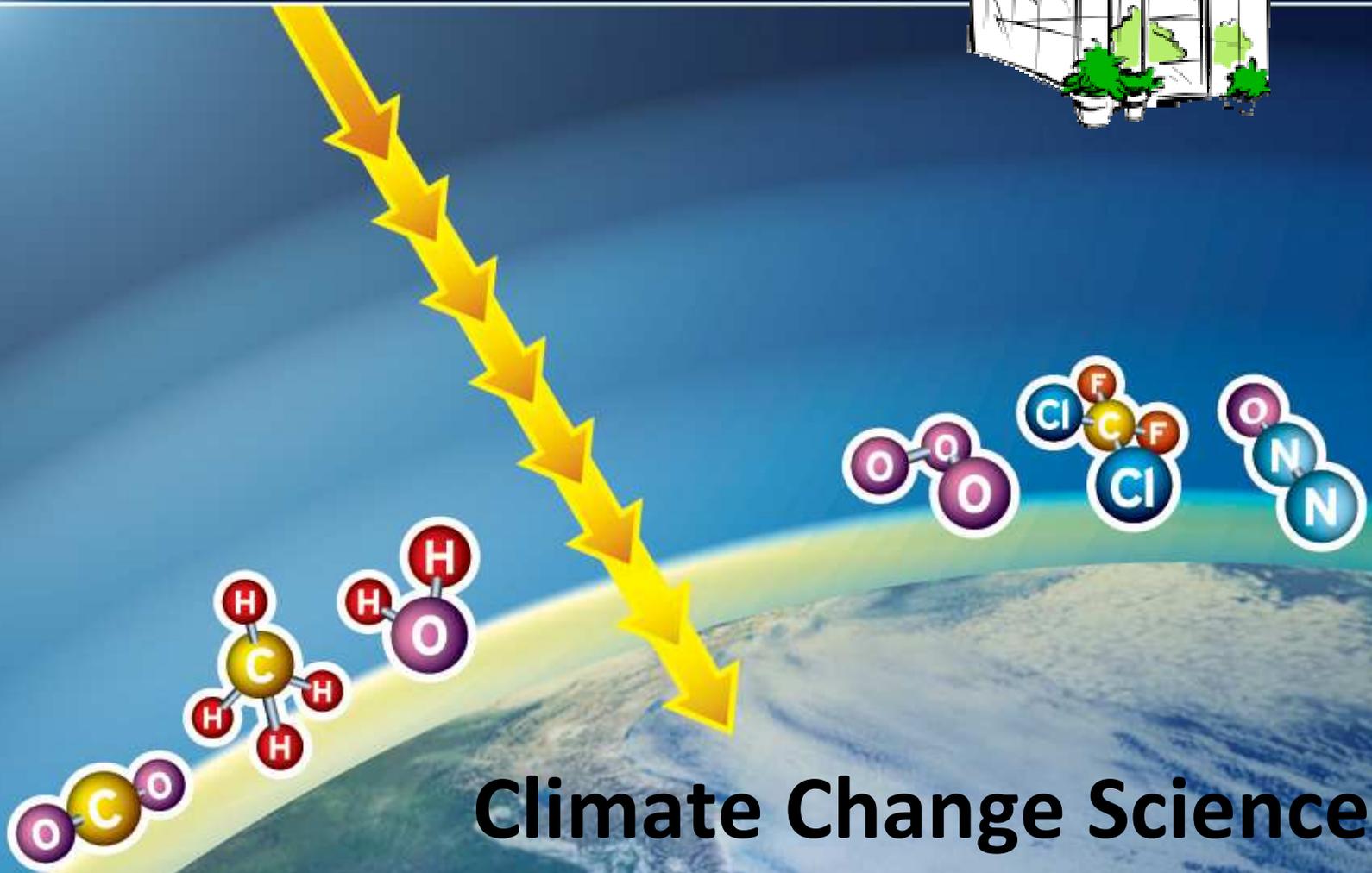
Source: Environment Canada (www.ec.gc.ca)





THE ATMOSPHERE

GREENHOUSE GASES

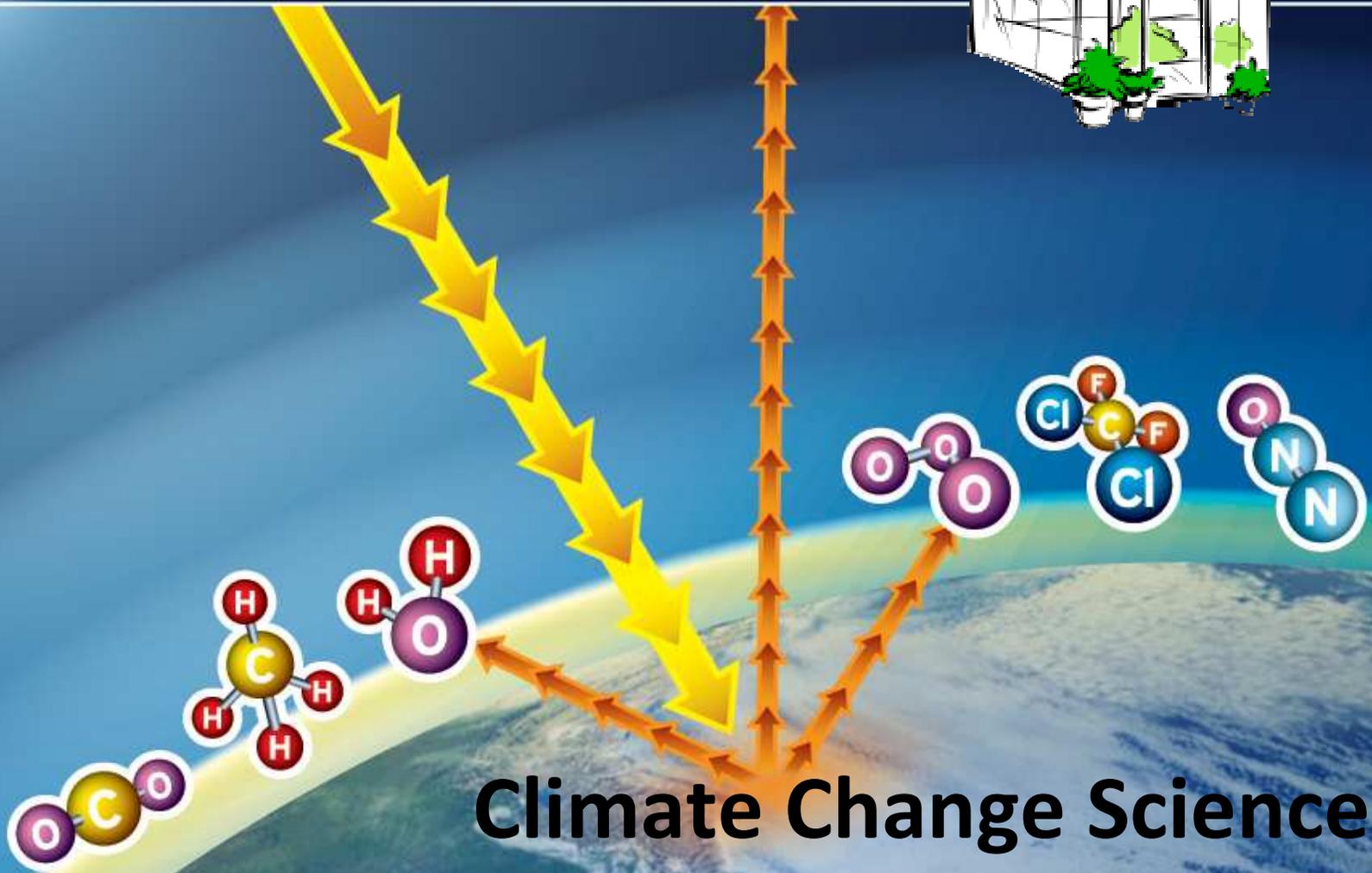


**Climate Change Science:
The Greenhouse Effect**



THE ATMOSPHERE

GREENHOUSE GASES

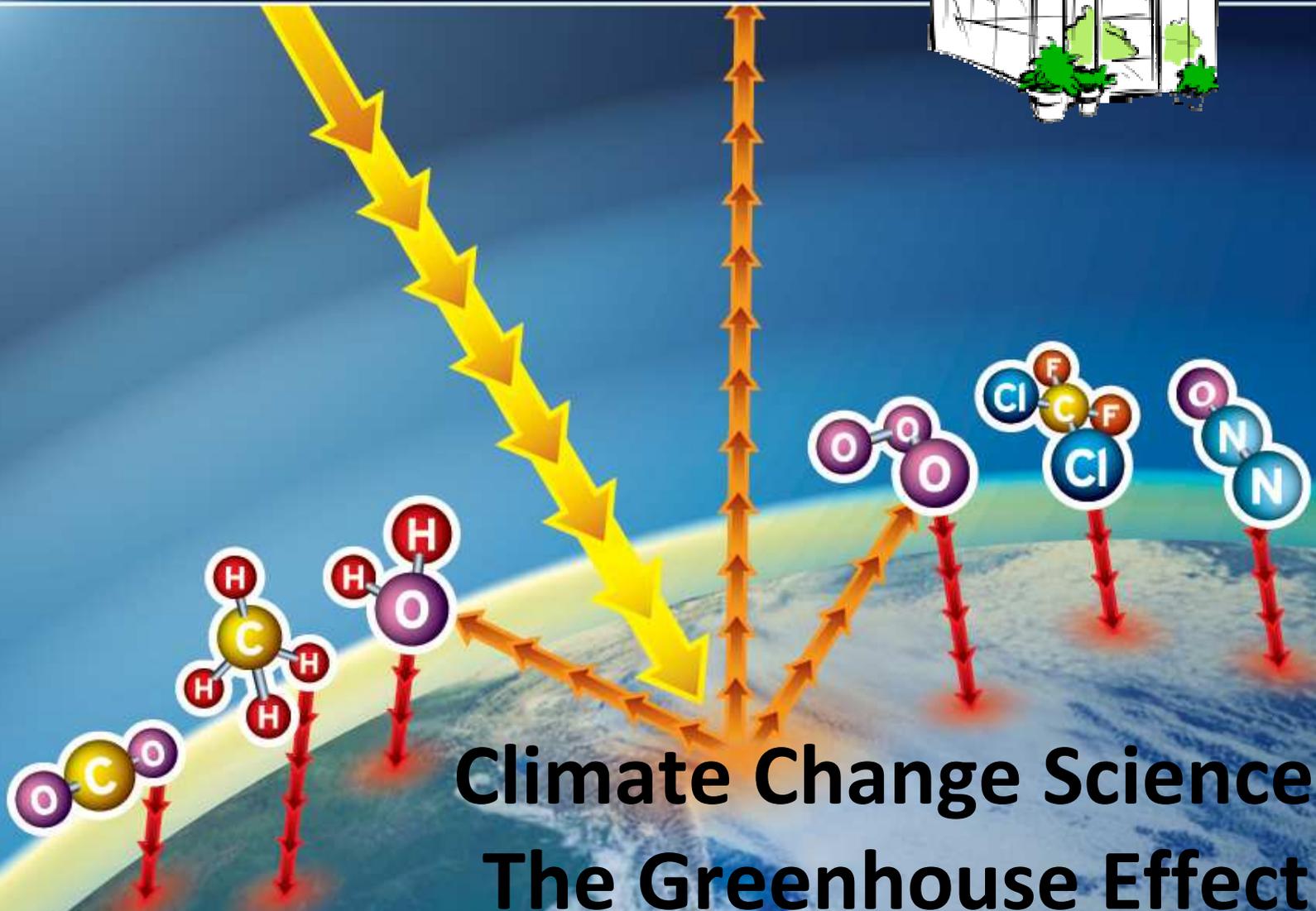


**Climate Change Science:
The Greenhouse Effect**



THE ATMOSPHERE

GREENHOUSE GASES



**Climate Change Science:
The Greenhouse Effect**



TEMPERATURE HISTORY

THE LAST MILLION YEARS

°C

CLIMATE HAS VARIED OVER EARTH'S HISTORY...

23

15

11

650

500

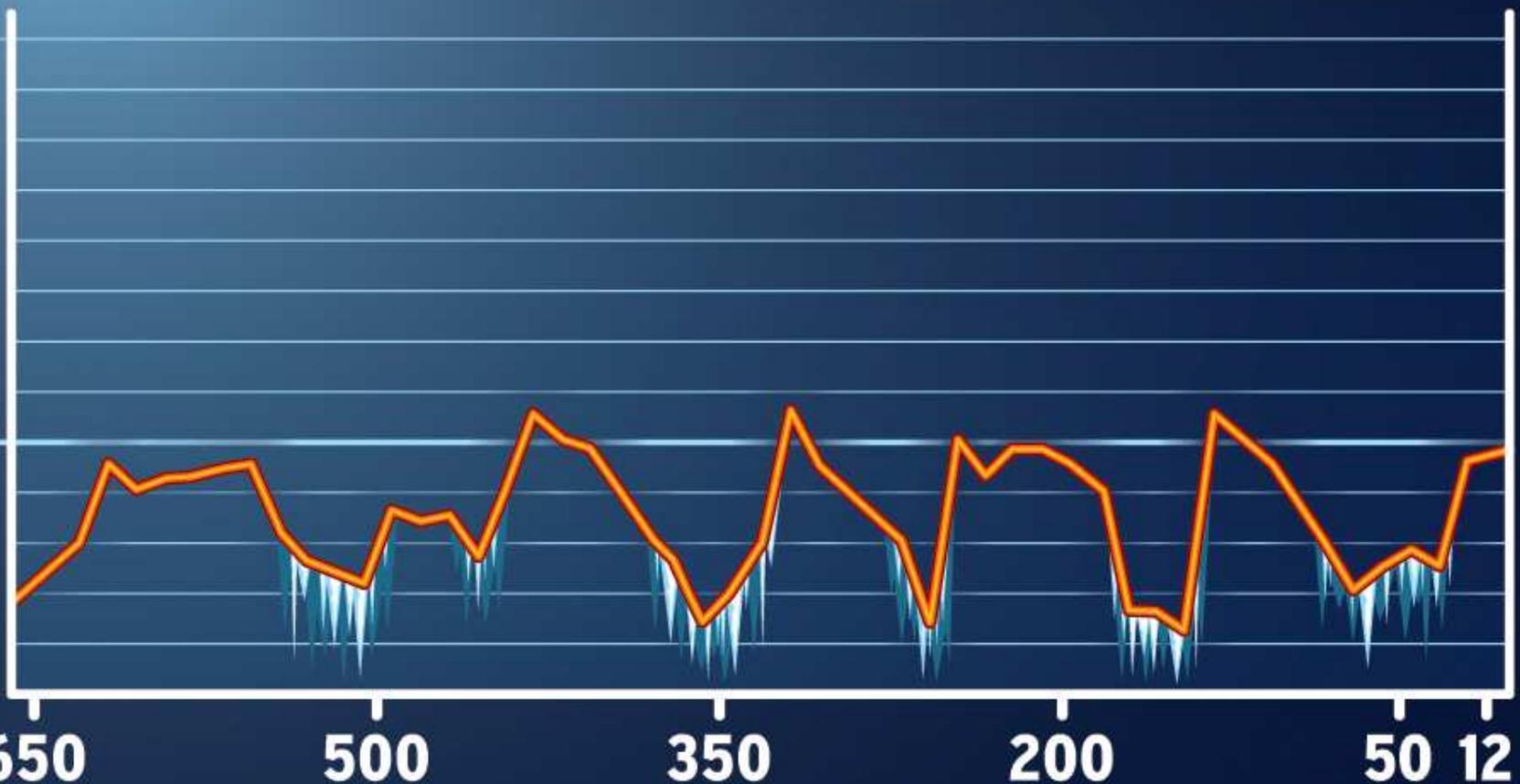
350

200

50

12

THOUSANDS OF YEARS





TEMPERATURE HISTORY

THE LAST 150 YEARS

°C

BUT TEMPERATURE CHANGE IS MUCH TOO FAST!





We are approaching the end of the fossil fuel era, but...

- Canada is the world's 5th largest energy user
- Since 1980, Canada's energy *production* has increased 87% & *consumption* is up 44%
- >80% of the world's energy still comes from fossil fuels

The good news? Newer, cleaner technologies exist!



What Can You Do?

- **Improve the energy efficiency of your home**

Do a home energy audit (professional or walk-through)

Weather stripping, caulking, insulation

- **Reduce electricity use**

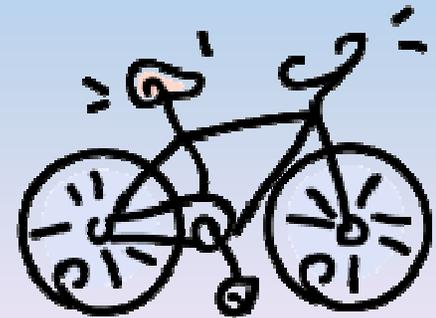
Energy efficient appliances (EnergyStar, EnerGuide)

Efficient lighting technology (CFLs, LEDs)

Behaviour



- **Drive less**
- **Use sustainable/ active transportation**
- **Practice fuel-efficient driving**
- **Avoid idling your car for more than 10 s.**
- **Maintain your vehicle**
- **Retire your 1995 or older car**
- **Downsize your vehicle**



➤ Buy local, organic foods

➤ Install low-flow water retrofits

➤ The 4 R's...and compost!

➤ Weigh in on Canada's climate policy

➤ Invest in green power

➤ Use your consumer power

➤ Get involved!



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Climate Change Impacts

Direct

- More frequent & severe weather
- Heavy rainfall
- Sea-level rise
- Increased temperatures
- Changes in freeze/thaw cycles

Indirect

- Drought
- Storm surge
- Flooding
- Erosion
- Infrastructure damages
- Economic impacts
- Human & ecosystem health