



## 2018 Intergovernmental Panel on Climate Change: 1.5C Report

- Key takeaway: Countries must cut emissions in half by 2030 for a safe climate future

---

50x30WR, a group of organizers operating on the principle that **speed is justice** and committing to that goal of 50% reductions



# Call to action: Commit to 50by30

# Flatten the climate curve

Earth system capacity



50% reduction by 2030

# The Changing Climate of Waterloo Region

climate change is a GLOBAL CHALLENGE with local impacts

Our local climate is projected to get **WARMER, WETTER, AND MORE EXTREME**

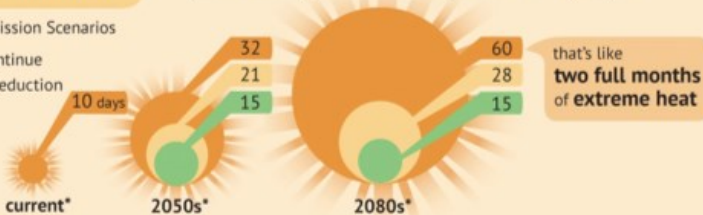
Annual average temperature projection  
**↑ 2-3°C by the 2050s\***

## More Extreme Summer Heat

Projected average number of days over 30°C per year

Global Greenhouse Gas Emission Scenarios

- If current emissions continue
- Aggressive emissions reduction
- Net-zero emissions



## More Intense Rain and Storms

Large-scale rainfalls and wind storms are projected to happen more frequently

Total annual precipitation is projected to **increase** by approximately 4-6% by the 2020s\* and 8-12% in the 2050s

**40% more freezing rain** events by the 2050s in December, January and February

## Warmer Winters

The monthly average temperature in February in the 2050s is expected to be **3-5°C higher** than it is today, meaning it will hover around 0°C

# How the Climate Has Changed And Will Keep Changing

Global CO2 levels are at **415ppm** - far above the recommended **threshold** of 350ppm

We are at approximately **1.3°C warming** - **already highly dangerous**. If we continue on this trajectory, **we'll see 4°C global rise** within our children's lives - destabilizing the climate beyond recognition, and destabilizing societies.

We can **decarbonize** at a dramatic rate. We are an **innovation and technological leader**

# Cambridge: strong and steady in crisis

“Our entire history has been shaped by our relationship with the Grand and Speed Rivers...we have adapted to and recovered from river flooding and other emergencies.

*We have proven that we are resilient in the face of such challenges...and expect that we will face similar challenges in our future.*

Extreme weather and changing climate patterns are being experienced across the world...in recent years we have witnessed increasing impacts...from more intense and damaging spring flooding...to longer summer heatwaves...

*The Cambridge of the past will not be the Cambridge of tomorrow.”*

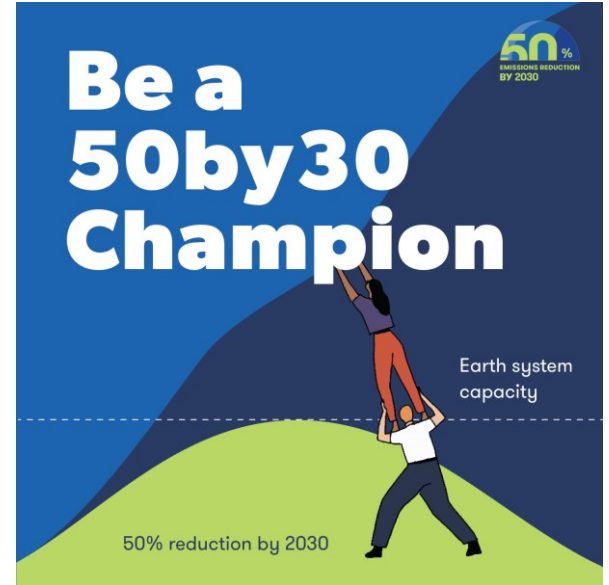
*City of Cambridge Climate Adaptation Plan 2019*



**Cambridge Connection: My grandmother was born in Galt in 1908.**

# Change is happening on a global scale

- **USA** has set a goal of **50-52% reduction by 2030, net zero by 2050**
- **Shell** recently ordered to **reduce emissions 45% by 2030**
- **Over 700+ global cities** have committed to do their **fair share** to reach 50by30 (part of C40 Cities)
- **Vancouver City** has committed to **50by30**
- **Halifax** has committed to a **75% reduction** by 2030



# Reaching 50 by 30: Thousands of Jobs, Millions of Dollars

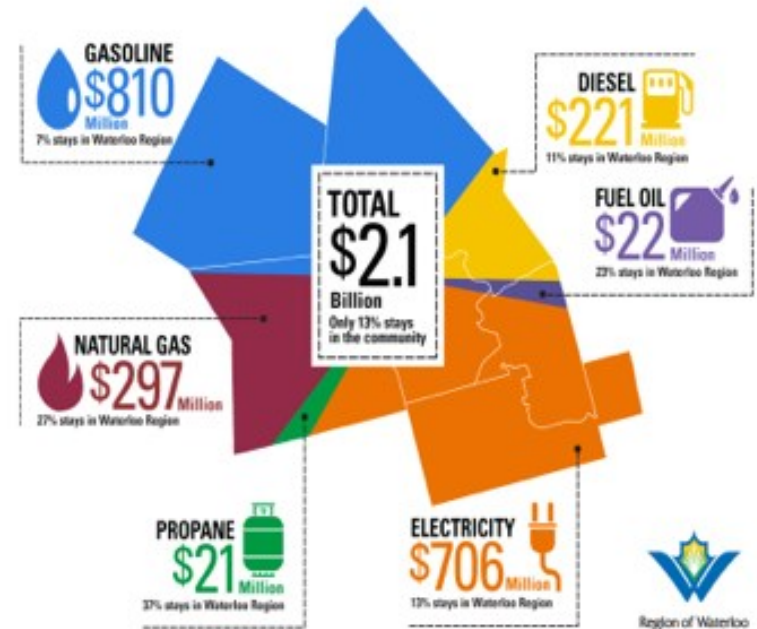
**50by30 Creates Jobs:** Halifax estimates that carrying out their 50by30 plan will generate **90 000 person years of employment** over the coming decade.

*That's like a new Toyota Plant opening every year.*

Who would say no to that many jobs?

Generating renewable energy locally will also help to keep **millions of energy dollars** in the region, according to the Waterloo Region *Community Energy Investment Strategy*.

## How much did we spend on energy in 2014 within Waterloo region?



## Green companies leading the way in Ontario

The boss of metal fabrication shop VeriForm realized energy wasting is also a waste of money, joining a growing number of companies taking on green initiatives.



# Big Benefits to being out front

Veriform: a **Cambridge company** aggressively reducing its GHG emissions while **growing its workforce, expanding its plant and increasing its profits.**

Their success proves that this is **not** a decision between environment & economy.



# World has begun a profound transformation

both in terms of climate impacts and how societies will respond to them.

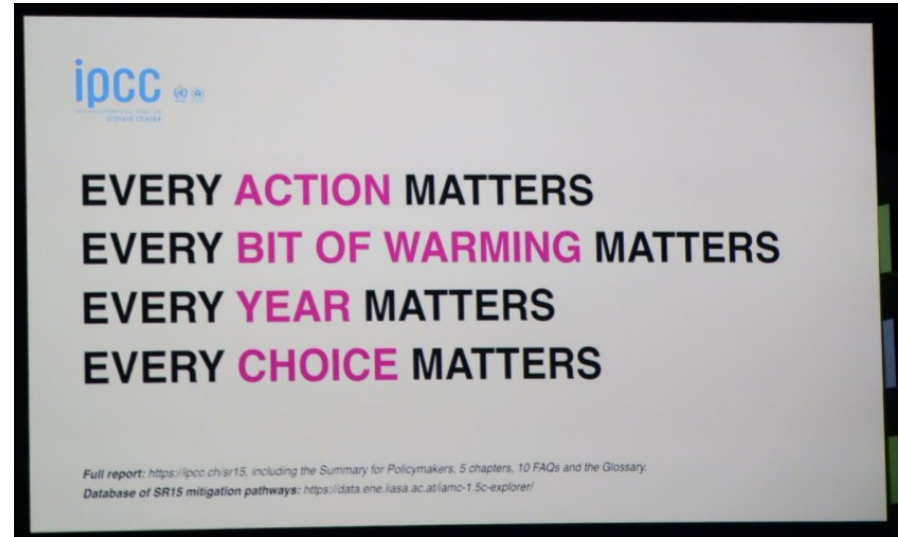
## Speed is justice.

Every amount of carbon released matters

Every little bit of warming avoided reduces the risks of **irreversible climate impacts**, lessens devastation to **vulnerable communities**, reduces harm to the **natural world**, and means a more intact, safer planet **for our children**.

The carbon we release here in Waterloo Region **does matter**.

Moral and ethical obligation to **reach 50% by 2030**



# Your decisions today create “The Cambridge of tomorrow”

A community that leads on climate action because it's the right thing to do.

A safer community that proactively prepares to meet future crises in the strong, steady way it always has.

A more prosperous community with thriving businesses that contribute to leading edge solutions.

A community that ensures *everyone* benefits from the safety and prosperity that results from taking leadership and committing to 50by30.

