

Re: Item No. 14.1

HalifACT 2050

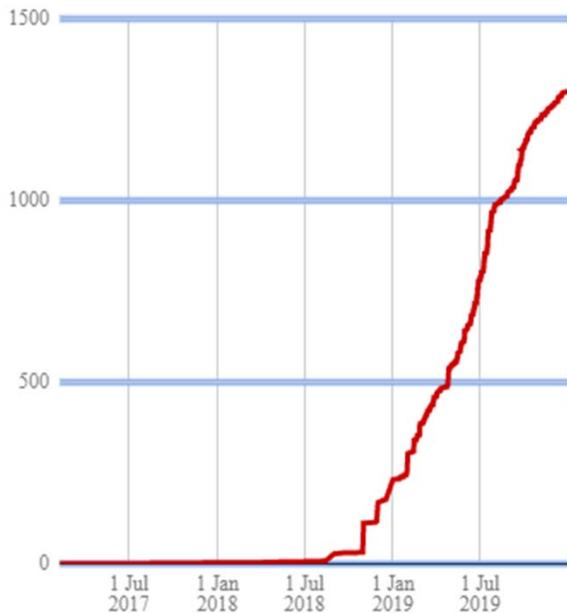
ACTING ON CLIMATE TOGETHER

Halifax Regional Council
January 14, 2020

Climate change 'constitutes an emergency' for Halifax, according to Regional Council

Zane Woodford – The Star Halifax

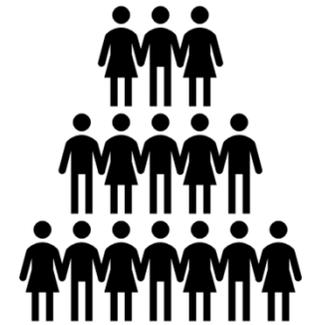
Governments That Have Declared a Climate Emergency



**1261 declarations
25 countries**



**468 declarations
in Canada**

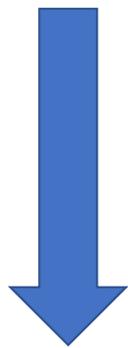


798 million+

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Why an emergency? Why now?

- IPCC Special Report on Global Warming of 1.5°C
- The next **10 years** are the most critical to course correct
- Globally, we need to:



80-90%
reduction in
emissions
from buildings
by 2050



70-85% of all
electricity
supplied by
renewables by
2050



30% reduction
in final energy
use from
transport sector
by 2050

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Darren Calabrese, Canadian Press

HalifACT 2050 Objectives

- Transition to a **low-carbon economy**
 - Renewables, conservation, efficiency
- Build **community resilience**
 - Strengthen communities and infrastructure for climate impacts
- **Evidence-based** and integrated
 - IPCC-driven targets, founded in science
- Respond to climate change **sustainably and equitably**
 - No one left behind

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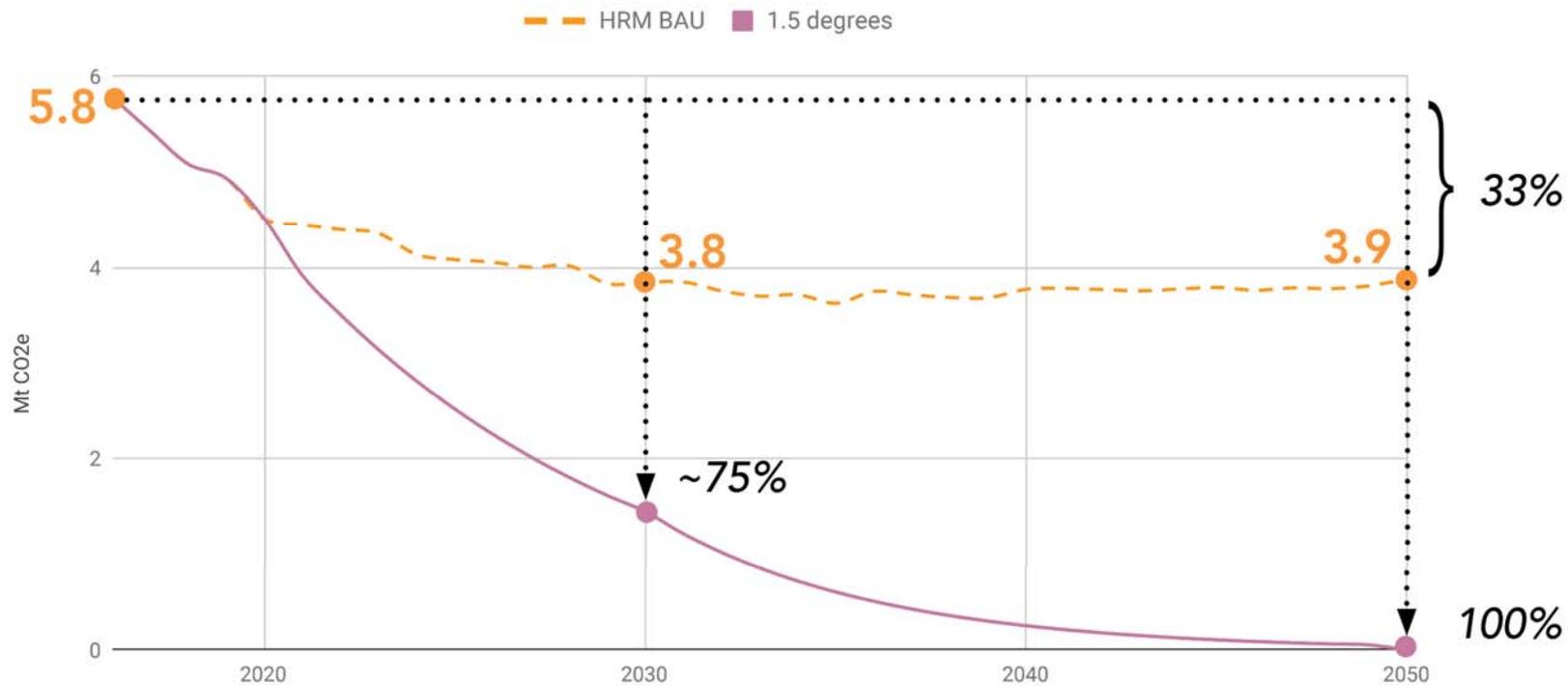
Who is at the table?

- 100+ external stakeholders
- 100+ internal stakeholders
- Public engagement
 - 35 pop-ups & 25 formal presentations
 - 2,800+ visits to Shape Your City
 - 23,000+ votes on All Our Ideas
 - Climate mapping through Joint Emergency Management teams



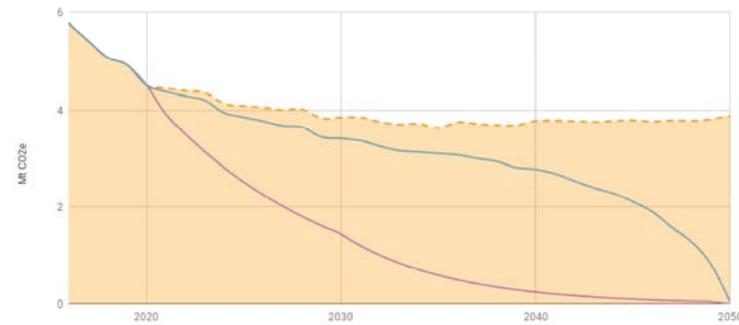
Percentage reductions to align with 1.5C

Total emissions (Mt CO₂e)

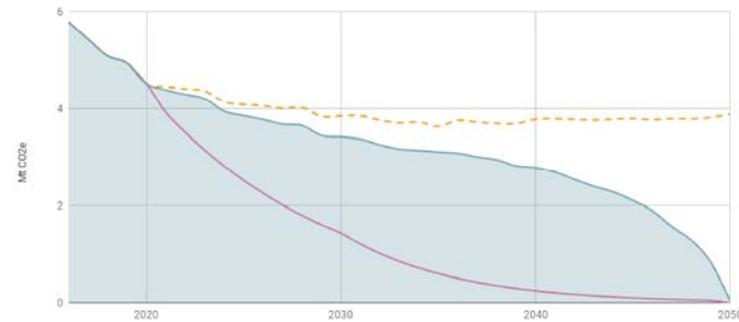


The Pathway Matters – Carbon Budget

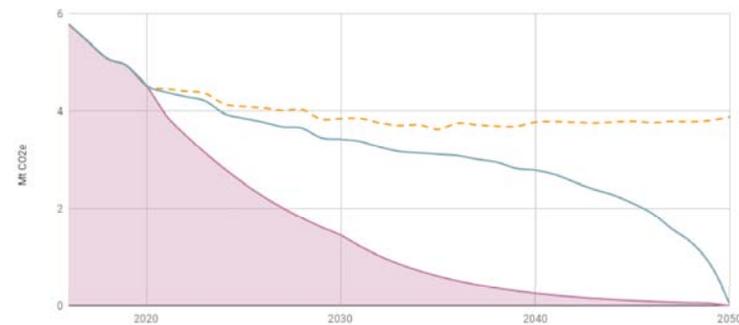
Under BAU, Halifax will exceed 1.5C budget by 2028 and 2C by 2030



BAU

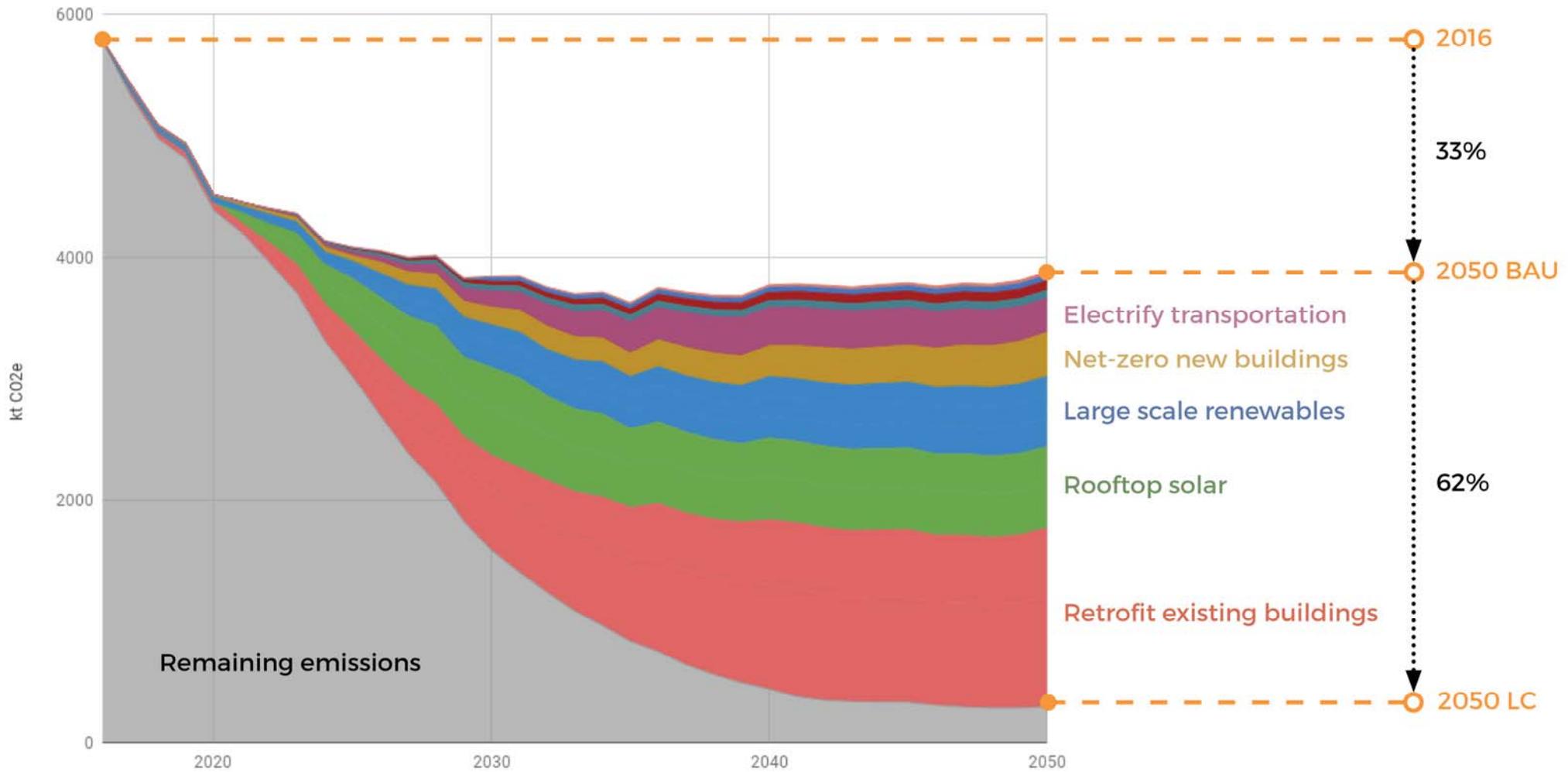


Steady late decline



Steep early decline

Emission Reduction Action Areas



The task ahead

- All new buildings are net zero
 - Designed for resilience to climate impacts
- Retrofit all existing buildings
 - Prioritize those most vulnerable to climate impacts
 - Reduce thermal and electrical energy demand by 50%
 - Electrify heating and water systems
 - Improve resilience to climate impacts



The task ahead

- Significantly expand rooftop solar
- Large scale renewables
- Electrification of transportation
- Zero waste
- Reduce water consumption
- Risk & vulnerability assessments of critical infrastructure/services
- Flood protection work – flood evacuation plan
- Food system vulnerability assessment



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With great challenge comes great opportunity

- Economic opportunity
 - Low carbon economy
 - Many climate actions save money
 - Public Safety Canada estimates that every \$1 invested in mitigation saves \$3-5 on recovery costs
 - Cost of carbon will rise over time
- Social opportunity
 - Vulnerable people will be disproportionately affected
 - Building resiliency improves lives
 - Reduce energy poverty
 - Reduce the burden on future generations

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Next Steps

- Finalize the plan
 - Report review process
 - Letters of commitment from external stakeholders
- The plan will require new staff and resources
 - There will be an ask for new staff and funding for additional consulting work when the plan is brought forward, outside of the 2020/21 budget process due to timing.

HalifACT 2050 IS A LONG-TERM ACTION PLAN TO ADDRESS CLIMATE CHANGE.

BY WORKING TOGETHER, WE CAN SHAPE THE FUTURE OF HALIFAX FOR GENERATIONS TO COME.

✓ **SAVE MONEY**

✓ **PREVENT LOSS**

✓ **CUT EMISSIONS**

✓ **STRENGTHEN COMMUNITIES**

YOUR MUNICIPAL GOVERNMENT IS LEADING THE PLAN,
BUT WE ALL MUST ACT.

LEARN HOW: [HALIFAX.CA/CLIMATE](https://www.halifax.ca/climate)

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