

City of Vaughan Municipal Energy Plan (2024)

SSG

Vaughan's Climate Target

Vaughan has set a target to reach 2-3 tonnes of GHG per capita by 2030 and net-zero emissions by 2050 at the latest.

To meet these targets, **Vaughan will need to eliminate 0.86 MtCO₂e by 2030 and 2.6 MtCO₂e by 2050.**

Target Setting Best Practices

Cities Climate Leadership Group (C40) and the International Panel on Climate Change recommend, by 2030, all cities converge on a maximum emissions rate of 2.9 tCO₂/person and from 2030 onwards, cities reduce their emissions to net zero by 2050.

The Municipal Energy Plan Includes



New **GHG emission reduction targets** for 2030 and 2050.



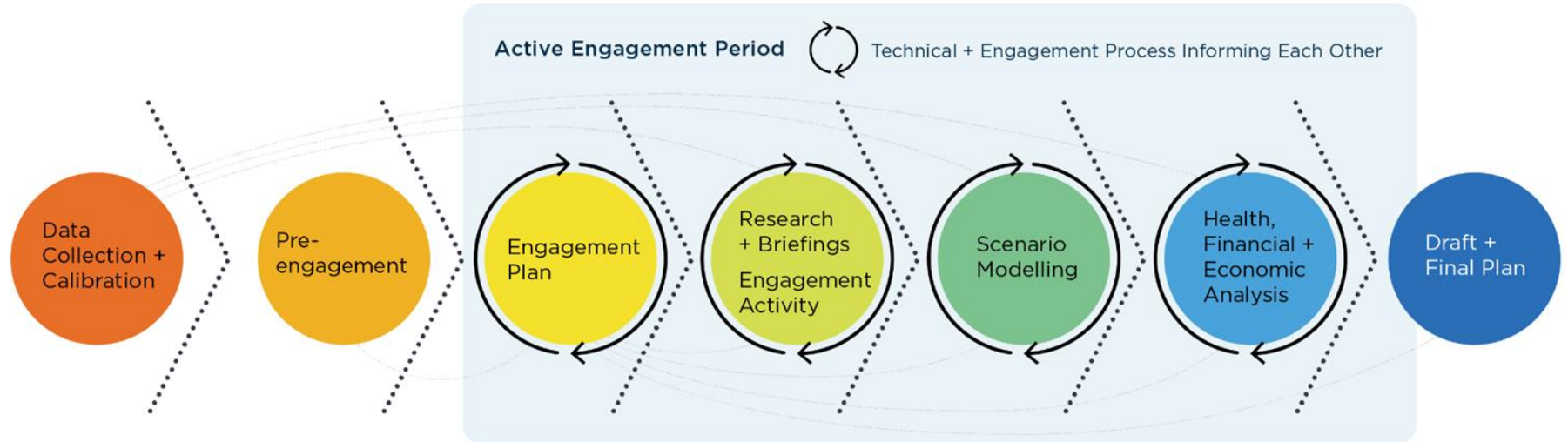
A **low carbon pathway** to reduce emissions in 6 sectors.



A set of comprehensive **actions** to:

- Meet these new GHG emission reduction targets.
- Prepare and build resilience for the changing climate.

The Engagement and Technical Process



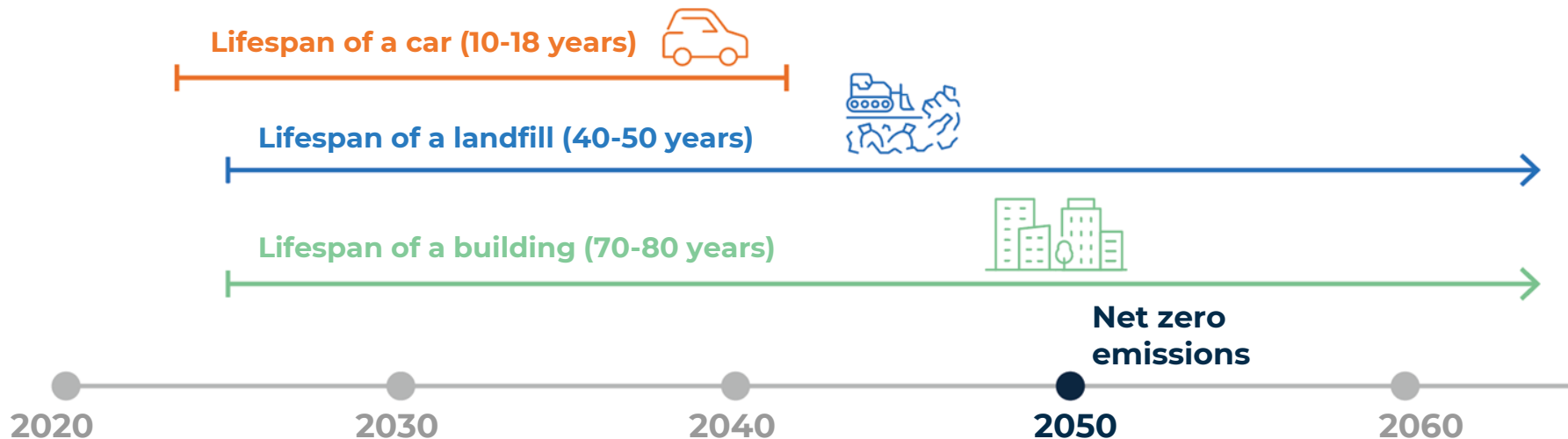
Climate Change
and Vaughan

Energy and Emissions

Why Now?

There is **clear global consensus** that there is no time to waste in taking action on climate change.

Infrastructure built now can lock-in patterns of high energy use and emissions for decades to come.



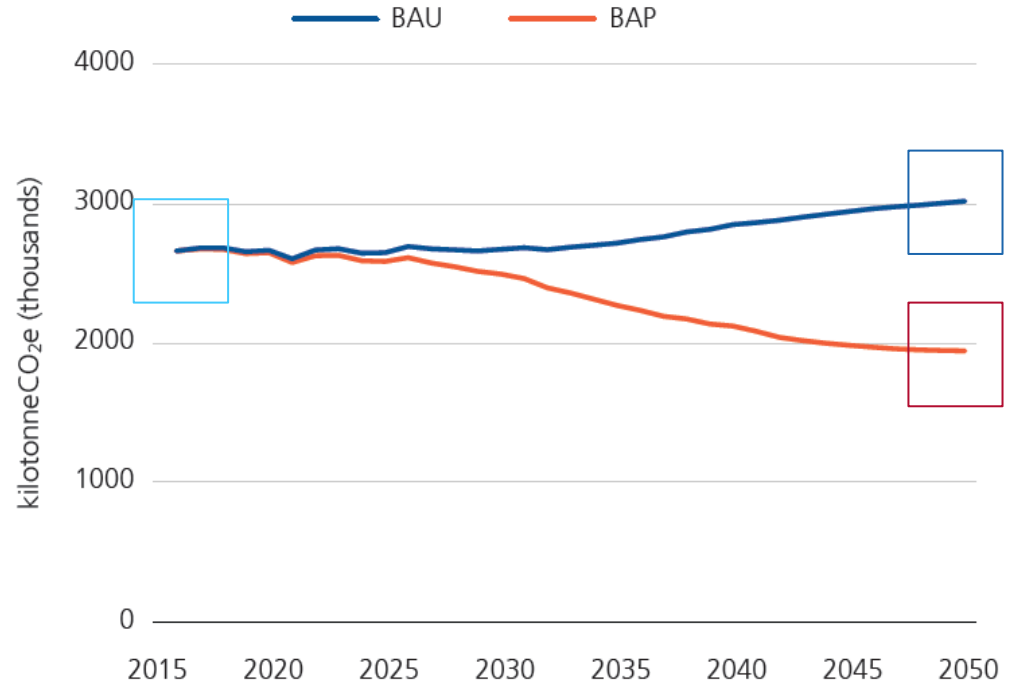
Current State: the Business-as-Usual and Business-as-Planned Emissions

The 2016 baseline is our starting point:

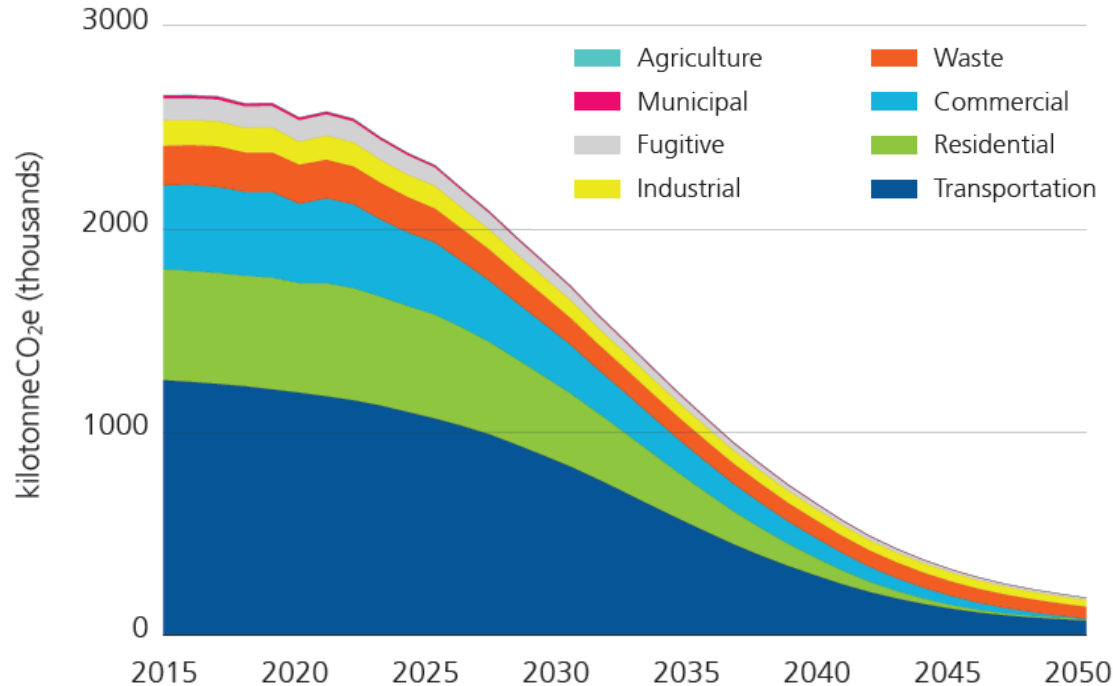
- 2.6 MtCO₂e and 8.4 tCO₂e/capita

The 2050 projected emissions:

- BAU: 3.2 MtCO₂e and 5.38 tCO₂e/capita
- BAP: 1.94 MtCO₂e and 3.47 tCO₂e/capita



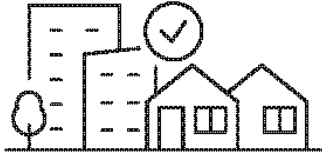
Future State: The Low-Carbon Pathway



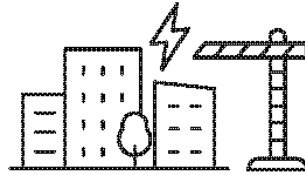
Vaughan's low-carbon pathway achieves a **93% reduction in GHG emissions.**

In 2050, the low-carbon pathway produces **0.18 MtCO₂e or 0.33 tCO₂e/capita.**

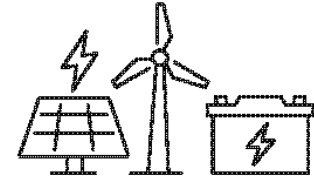
Vaughan's Low Carbon Pillars



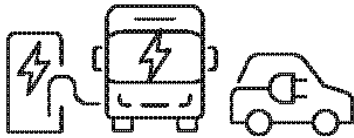
Retrofitting Buildings



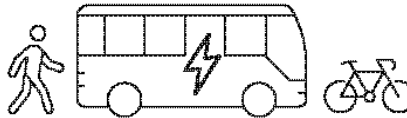
Building Net-Zero
New Construction



Generating
Renewable Energy



Reducing Vehicle
Emissions



Increasing Active
Transportation and
Transit Use



Reducing Waste
Emissions

The Climate Opportunity
Vaughan's Next Steps

Systematic Change

Action 1: Adopt a Carbon Budget

- Systematic way to reduce GHG emissions, ensure policies and programs do not lock in further emissions, and maximize social and financial opportunities resulting from the energy transition

Action 2: Dedicate staff and convene a working group

- Dedicate one staff member to oversee the implementation of the MEP's Implementation Framework and establish a cross-departmental working group

Action 3: Apply an equity lens

- The first step to ensure that intergenerational equity, income inequality, global equity, and climate resilience are considered in policies, programs, and initiatives

Thank you!

Eleri Davies, Senior Consultant
elери@ssg.coop

Dear Mr. I am writing to you today because of my
concerns about littering. This has
gone to litter because the road got
the beach and the water in the beach
and for the environment and
the earth's and animal plants
and flowers.

DRAY MP

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