



West Grey Climate Change Action Plan

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Local Governments
for Sustainability

CANADA

Agenda

- What is a Climate Change Action Plan (CCAP)?
- Plan Development Process
- Corporate GHG Emissions Inventory
- Emissions Reductions Target
- Climate Action Strategy
- Plan Implementation





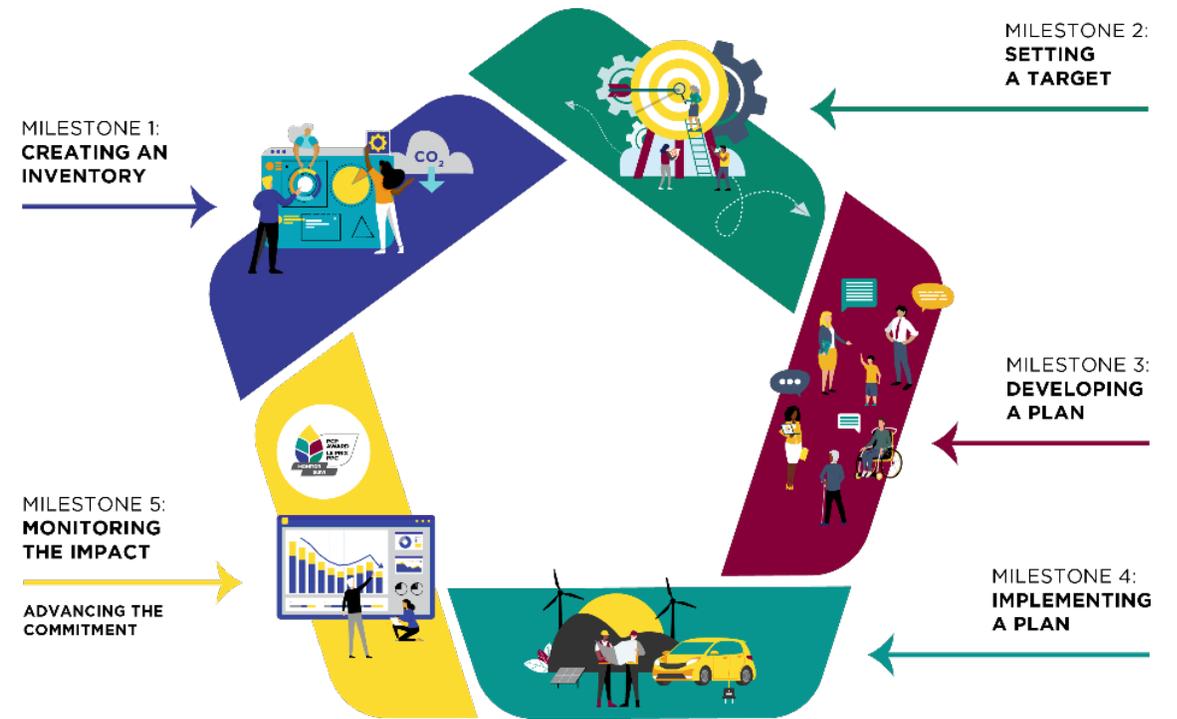
What is a CCAP?

Long-term strategy to realize a sustainable, low-emissions, energy-efficient future.

Details how WG currently uses energy.

Forecasts energy use into the future.

Specifies actions that will reduce emissions across sectors.



Plan Development Process

| PHASE 1 Oct – Dec 2021 | PHASE 2 Dec 2021 – May 2022 | PHASE 3 Jun – Aug 2022 |
|--|---|---|
| <p>TASKS</p> <ul style="list-style-type: none">• Kick-off Meeting• Workplan and schedule refinement• Review of West Grey's relevant materials• Establish working groups• Establish communications plan | <p>TASKS</p> <ul style="list-style-type: none">• Data collection, review and refinement• BAU scenario development• Documentation and reporting of inventory and scenarios• Identification of existing planning initiatives, opportunities, constraints• Presentation to council | <p>TASKS</p> <ul style="list-style-type: none">• Develop goals and targets• Public survey• Strategy development• Strategy quantification |
| PHASE 4 Sept 2022 – Jan 2023 | PHASE 5 Feb 2023 | |
| <p>TASKS</p> <ul style="list-style-type: none">• Develop finalized list of recommended actions• Develop implementation and monitoring plan• First draft of CCAP | <p>TASKS</p> <ul style="list-style-type: none">• Draft final CCAP• Council presentation of draft CCAP• Presentation to council• Grant opportunity collaboration with staff | |

Stakeholder Engagement



Climate advisory committee

Crafted Vision Statement

Set level of ambition and emissions reduction Target



Regular updates of CCAP development + engagement opportunities shared with public

via newsletters, media releases, website updates, social media



Resident survey to gain feedback on CCAP development

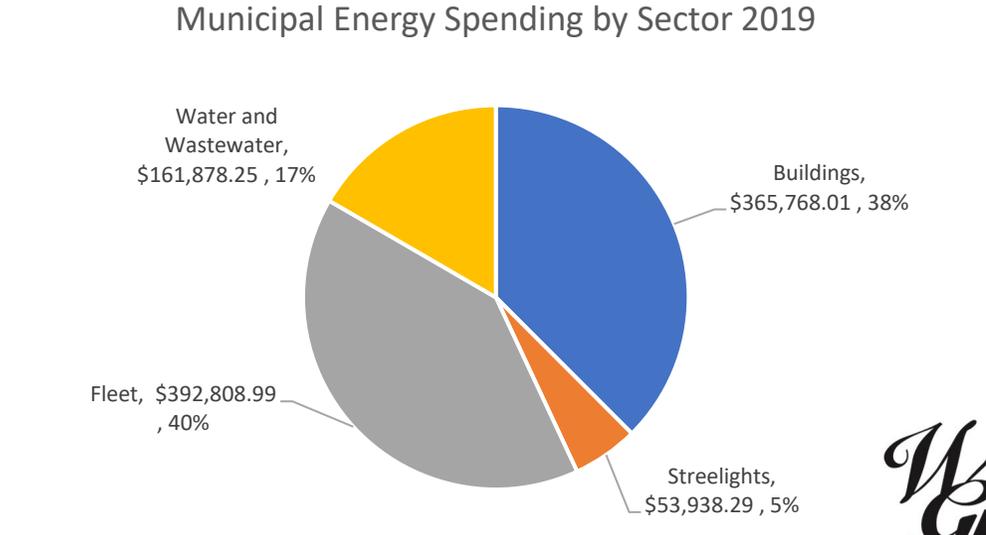
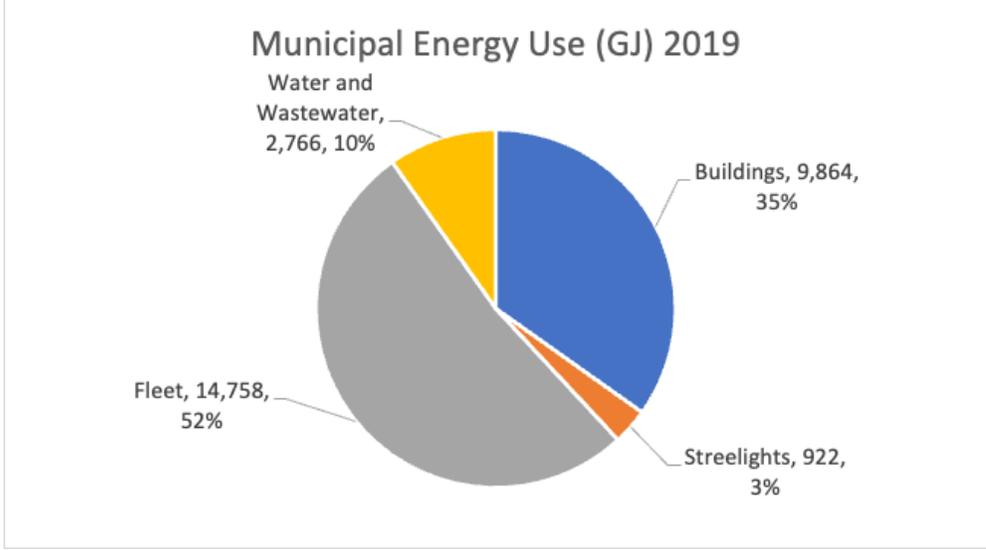
via WG website (n=72)



West Grey

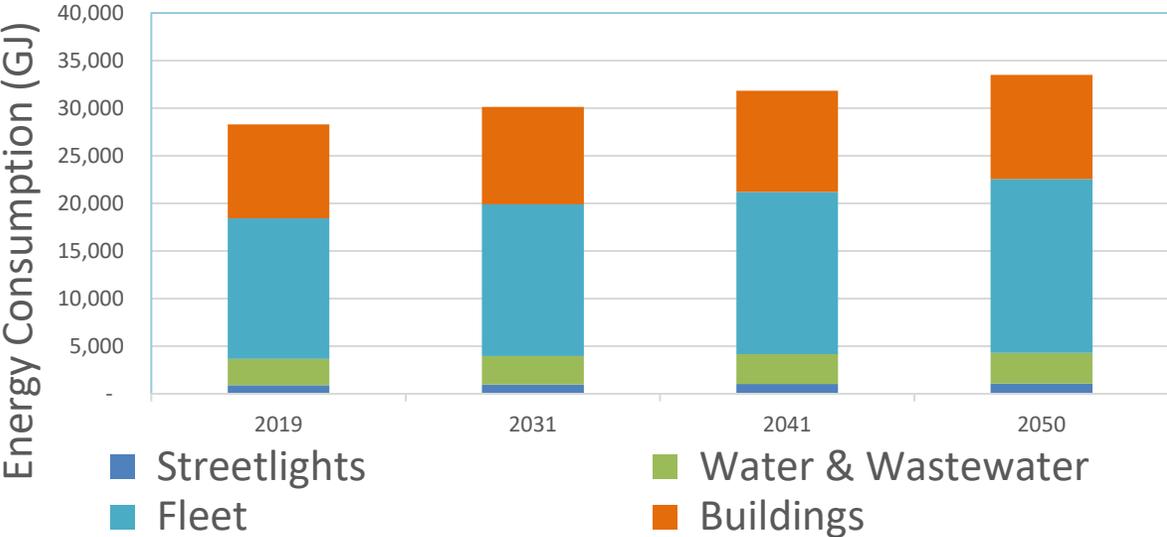
Energy and Emissions Summary

| Sector | Energy Consumption (GJ) | Energy Costs (\$) | GHG Emissions (tCO2e) |
|--------------------|-------------------------|-------------------|-----------------------|
| Buildings | 9,864 | \$365,768 | 324 |
| Fleet | 14,578 | \$392,808 | 993 |
| Streetlights | 922 | \$53,938 | 2 |
| Water & Wastewater | 2,766 | 161,878 | 8 |
| Landfilled Waste | N/A | N/A | 862 |
| Operational Waste | N/A | N/A | 170 |
| Total | 28,310 | \$974,393 | 2,381 |

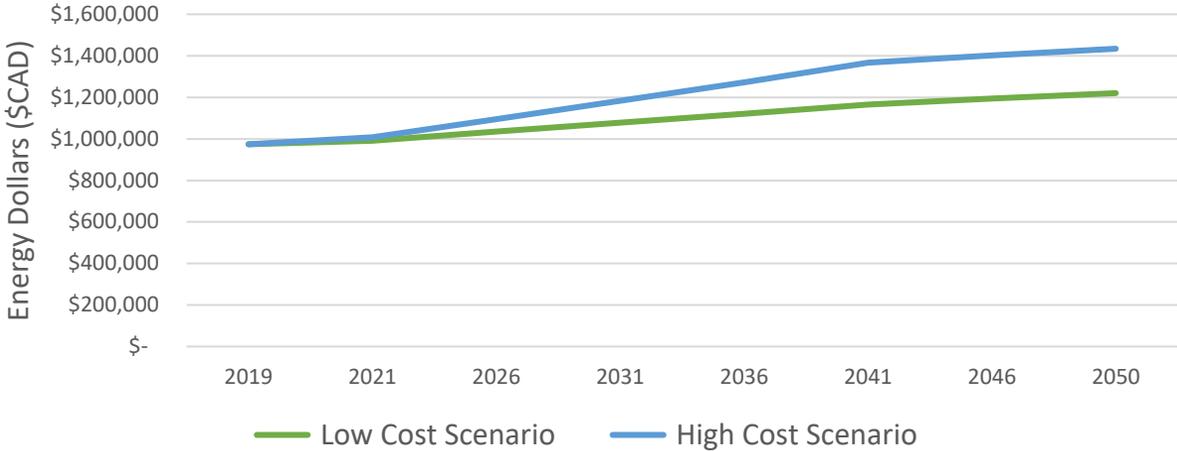


Business-As-Usual Projection: “What would happen if no climate action were taken”

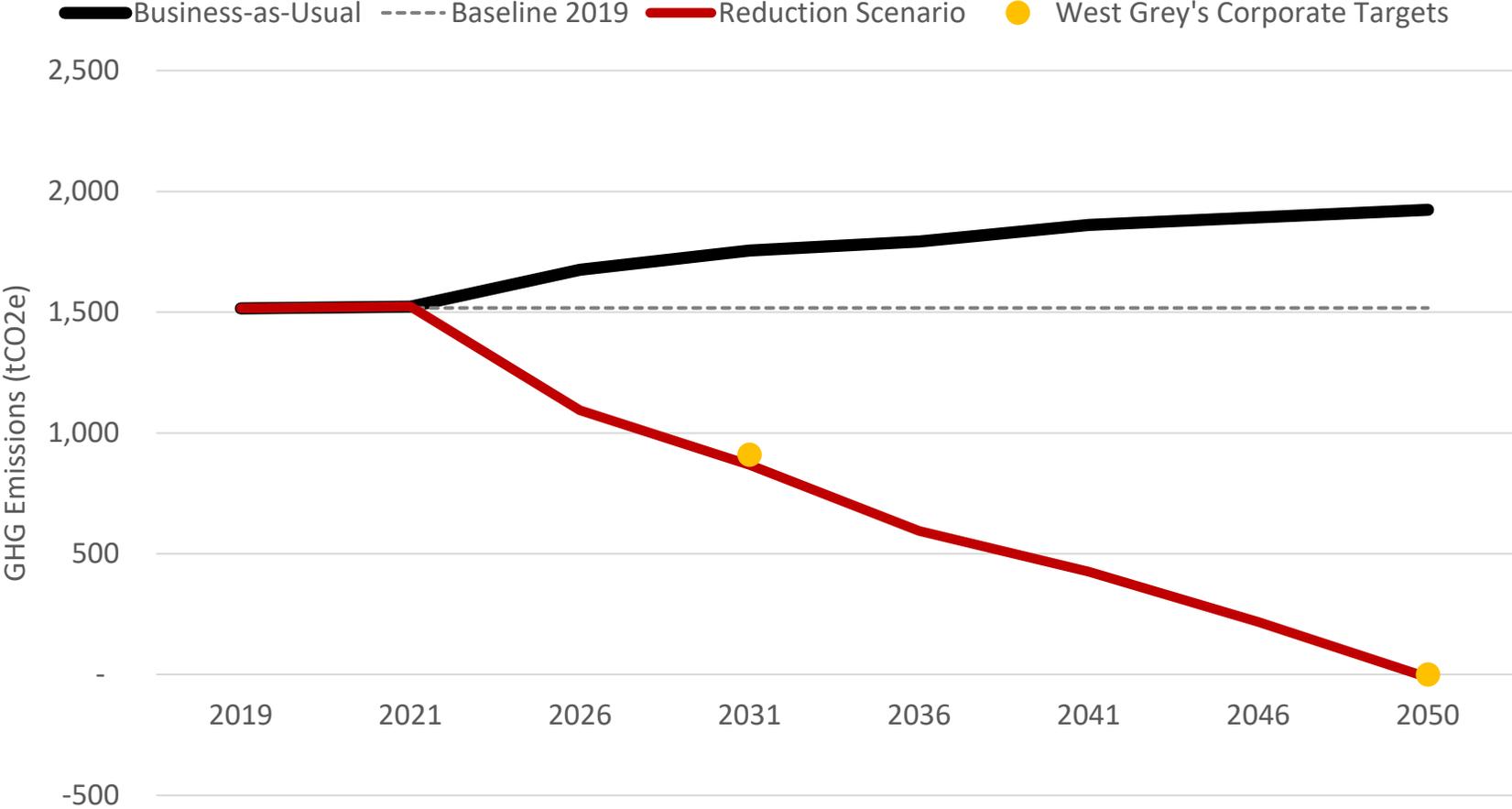
Projected Energy Use to 2050



Corporate Cost Projection to 2050



Emission Pathways to 2050)



Reduction Target

40% reduction in corporate greenhouse gas emissions by 2030 relative to 2019 levels;

and net-zero greenhouse gas emissions by 2050.

15 climate actions proposed
to meet these targets

- Modelled reduction potential achieves an 86% reduction by 2050
- To reach net-zero offsets and sequestration from measures such as renewable energy production and nature-based solutions will be needed

Climate Action by Sector

Vehicle Fleet & Equipment

Strategy #1

Develop a Green Fleet Plan

Strategy #2

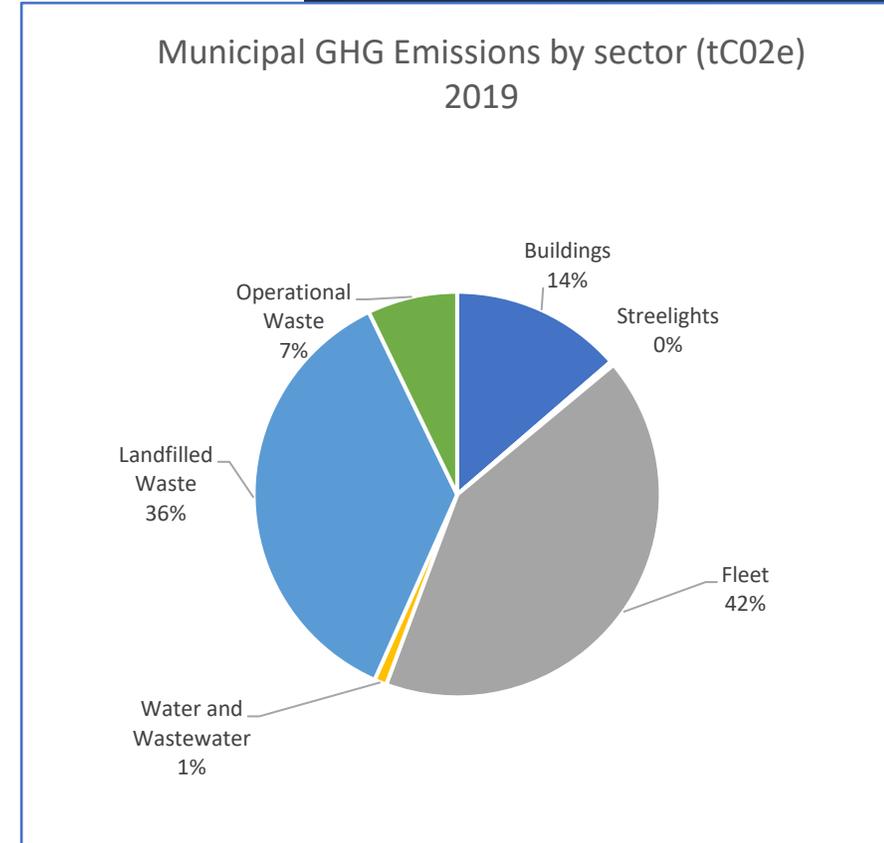
Install EV Chargers at Municipal Parking Lots and Buildings

Strategy #3

Fleet Optimization

Strategy #4

Reducing Emissions from Single Passenger Commuting & Private Vehicles



Climate Action by Sector

Buildings

Strategy #5

Energy Efficient New Buildings

Strategy #6

Develop an Energy Efficiency Strategy for Existing Buildings

Strategy #6.1 Energy Efficiency Retrofits

Strategy #6.2 Implement an Energy Management Plan

Strategy #7

Renewable Energy



The West Grey logo, featuring the words "West Grey" in a black, stylized cursive font on a white background.

Climate Action by Sector

Streetlights

Strategy #8
LED Streetlight Conversion



Water & Wastewater

Strategy #9
Increase the Energy Efficiency of Water and Wastewater
Facilities



Climate Action by Sector

Solid Waste

Strategy #10
Corporate Waste Policy

Strategy #1
Develop a Waste Education and Awareness Program

Strategy #12
Waste Diversion

Strategy #13
Landfill Gas Capture



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Climate Action by Sector

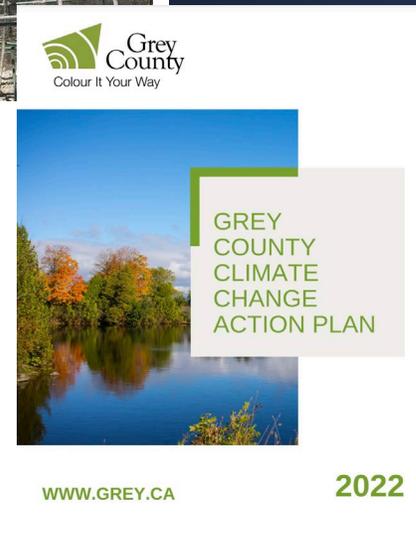
Municipal Culture

Strategy #14
Municipal Climate Lens

Strategy #15
Promote a Culture of Conservation

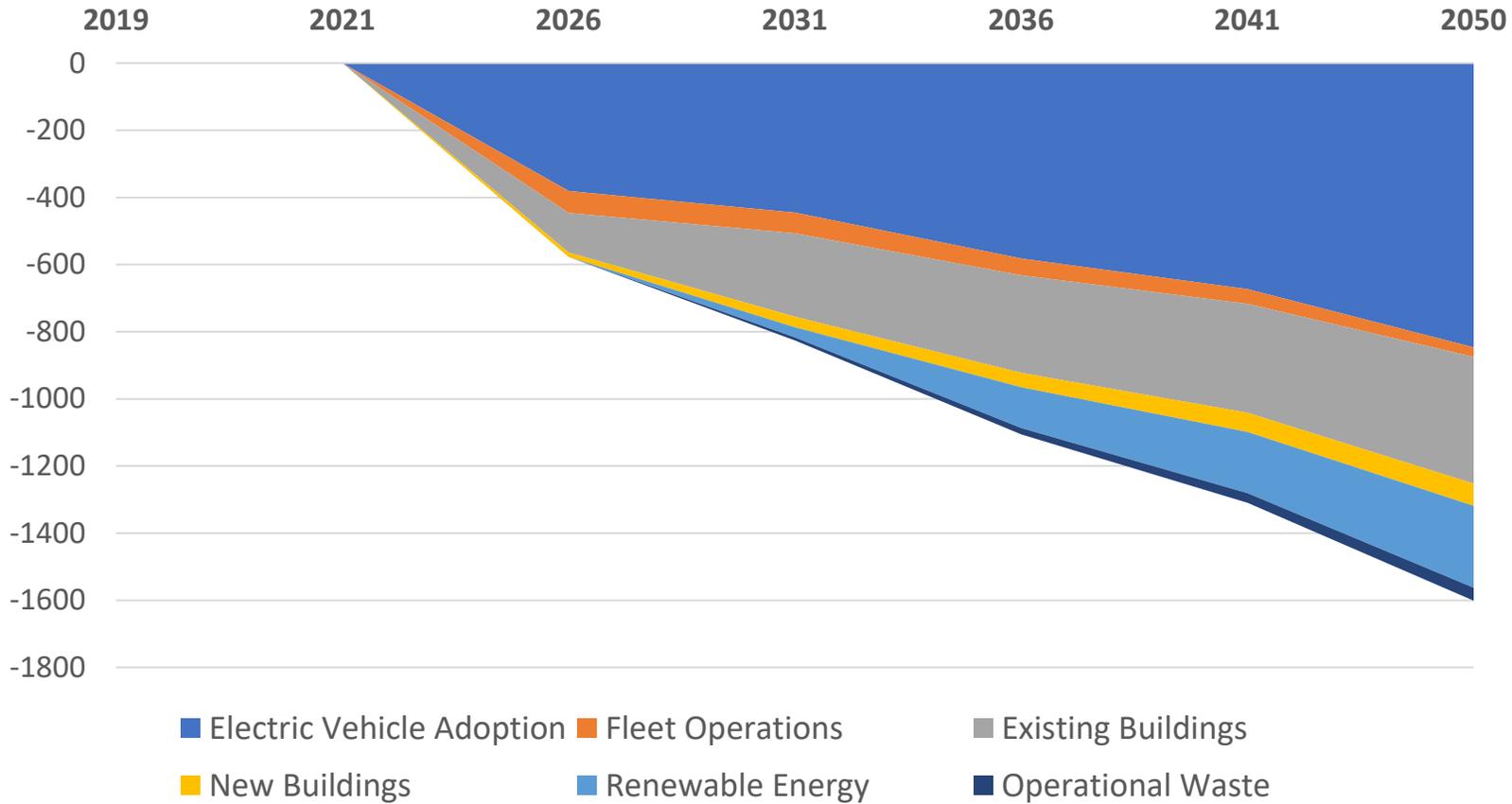


Alignment with Grey County CCAP



Cumulative Impact of Actions

Aggregated Emission Reduction from Corporate Strategies



Implementation

- Governance
- Financing
- Partnerships
- Monitoring and Review

| Strategy | Potential Lead(s) | Potential Partner(s) | Timeframe | Relative Cost | Funding Opportunities | Monitoring Metrics |
|--|---|--|------------|---------------|--|--|
| 1) Vehicle Fleet and Equipment Electrification | Infrastructure and Development Department | Grey County & member municipalities | Short-term | Low Cost | Green Municipal Fund: Reduce fossil fuel use in fleets | <ul style="list-style-type: none"> • Number of electric vehicles • Fuel saved and emissions avoided based on km travelled of replaced vehicles |
| 2) Install EV Chargers on municipal properties | Environment and Capital Projects Officer | Grey County & member municipalities; local businesses and institutions | Short-term | Low Cost | NRCAN Zero Emission Vehicle Infrastructure Program EPCOR Electric Vehicle Charging Station Funding Program Ontario Rural Connectivity Fund (details to be announced later this year) | <ul style="list-style-type: none"> • Number and type of EV chargers installed • kWhs charged |

Participation from stakeholders including:

- Grey County
- member municipalities
- the agricultural community
- renewable energy developers
- existing local energy co-operatives
- EV companies
- Bruce Power
- The Nuclear Innovation Institute
- cycling associations/groups
- conservation authorities
- waste management companies
- community groups/NGOs

Thank you

Questions?



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