

Council Strategic Session

May 8, 2023

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Development Services – Office of the GM

Session Overview

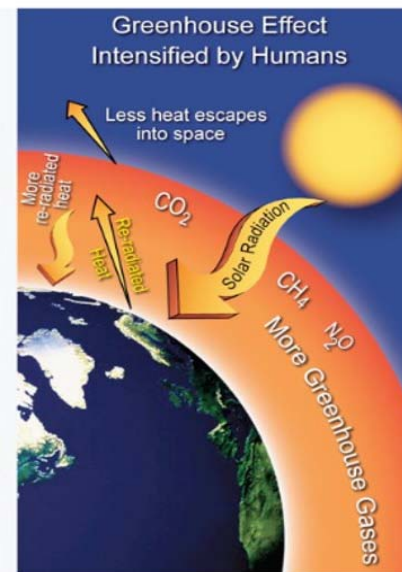
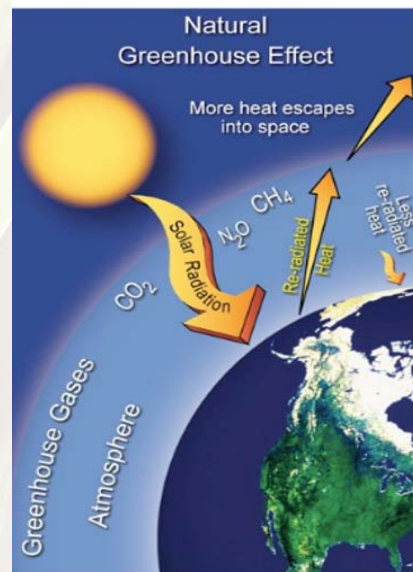


- Climate Change Primer
- Municipal Climate Action Recap
- Corporate GHG profile
- Calls to Action
- Discussion

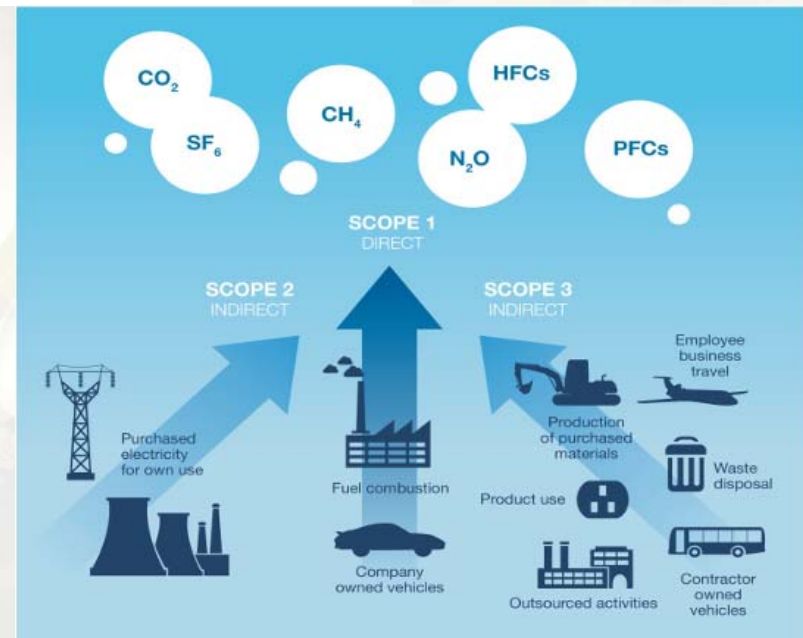
Climate Change Primer

Climate Change 101

Greenhouse gases (GHGs) (including carbon dioxide CO_2 and methane CH_4) trap heat from the sun inside Earth's atmosphere. As more greenhouse gases are released into our atmosphere (largely through the burning of fossil fuels) more GHGs are released into atmosphere and more heat is trapped. This raises the temperature of this planet, changing our living conditions and increasing the likelihood of extreme weather events both globally and locally.



Energy Transition



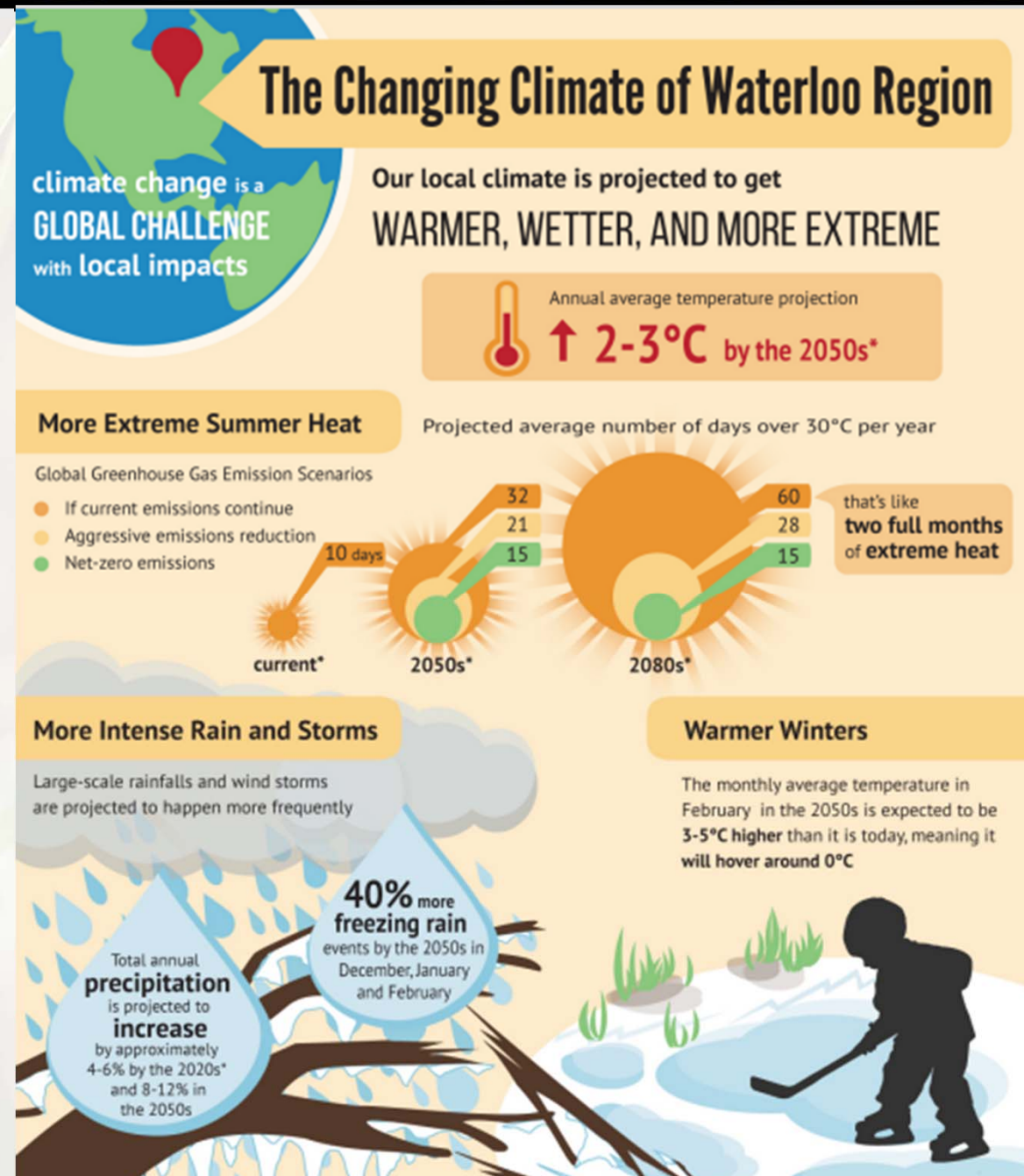
Local Climate Changes



**WARMER
WETTER
WILDER**

Global planet surface temperatures are already 1.1°C above pre-industrial temperatures...

Call to action = net-zero GHG emissions by mid-century



Municipal Climate Action Recap

Municipal Climate Action



Adaptation: *actions to manage* the risks of climate change *impacts*

- e.g. convert to permeable surfacing, plant shade trees

Mitigation: *actions to reduce emissions* that cause climate change

- e.g., right size equipment, fuel switch, heat recovery

Community Emissions – GHG emissions within our region; we have some influence (e.g., complete communities, increased density, active transportation infrastructure)

Corporate Emissions – GHG emissions our organization emits through the delivery of service to the community; we have some direct control


Municipal Climate Action



Looking back...

	Corporate	Community
Adaptation	Corporate Climate Action Plan	<i>Waterloo Region Community Climate Adaptation Plan (2019)</i>
Mitigation	<p>June 26, 2019 Council declaration of climate emergency</p> <p>Corporate Climate Action Plan 2022 Update and Close Out</p>	<p>CSD-13-108 CSD-17-046 INS-18-024</p> <p><i>Our Progress our Path</i> DSD-2021-94 <i>TransformWR</i> April 17, 2023 progress update</p>

Looking forward CorCAP 2.0...

	Corporate	Community
Adaptation	Part 3	
Mitigation	<p>Part 1 (corporate energy demand)</p> 	<p>Part 2 community demand for and corporate supply of energy (TransformWR, Kitchener Transition Strategy)</p>

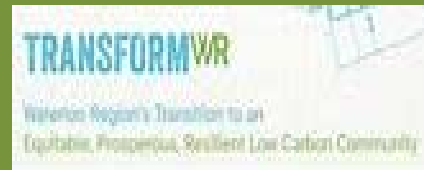
Municipal Climate Action



Corporate GHGs



Community GHGs



- City of Kitchener Corporate GHG emissions account for <1% of community total GHG emissions
- Municipalities have influence 50%-70% of GHG emissions nationally/globally (FCM, UN)

Corporate GHG emissions profile

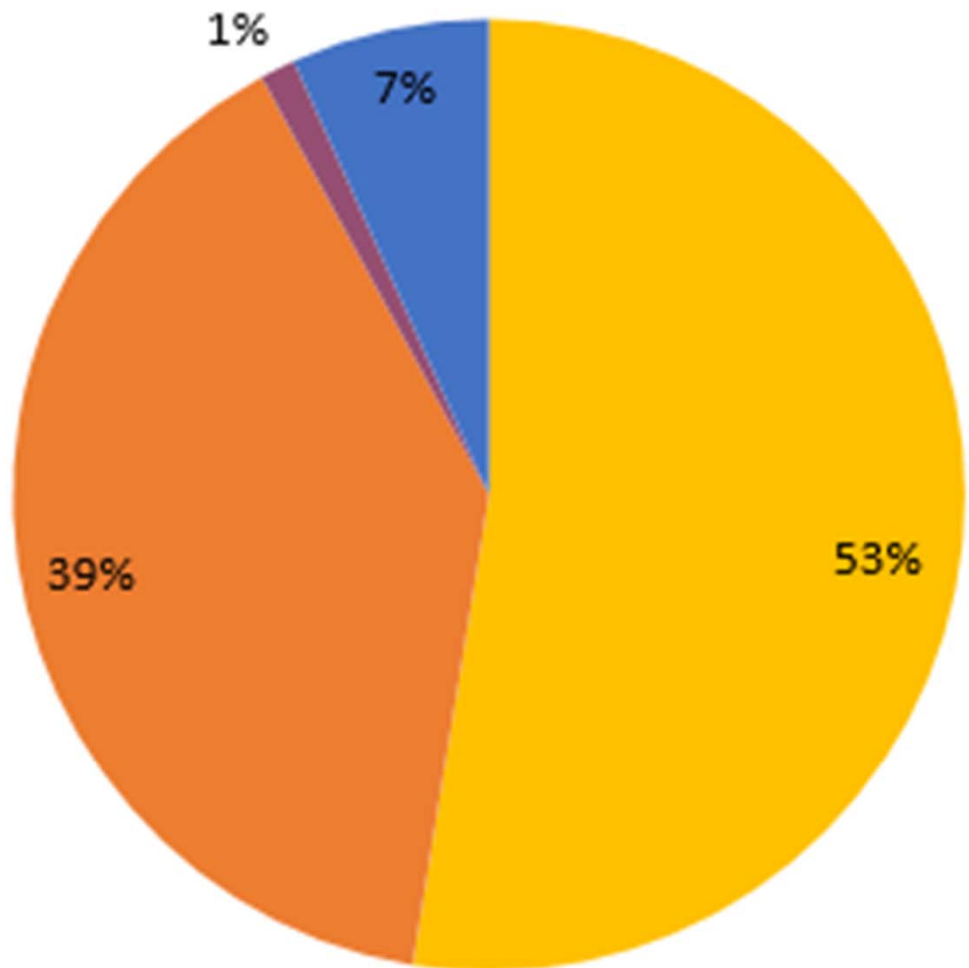
Thinking about the City of Kitchener as
an organization and the GHGs we
produce as we deliver core services to
the community...

Looking Back Moving Forward...

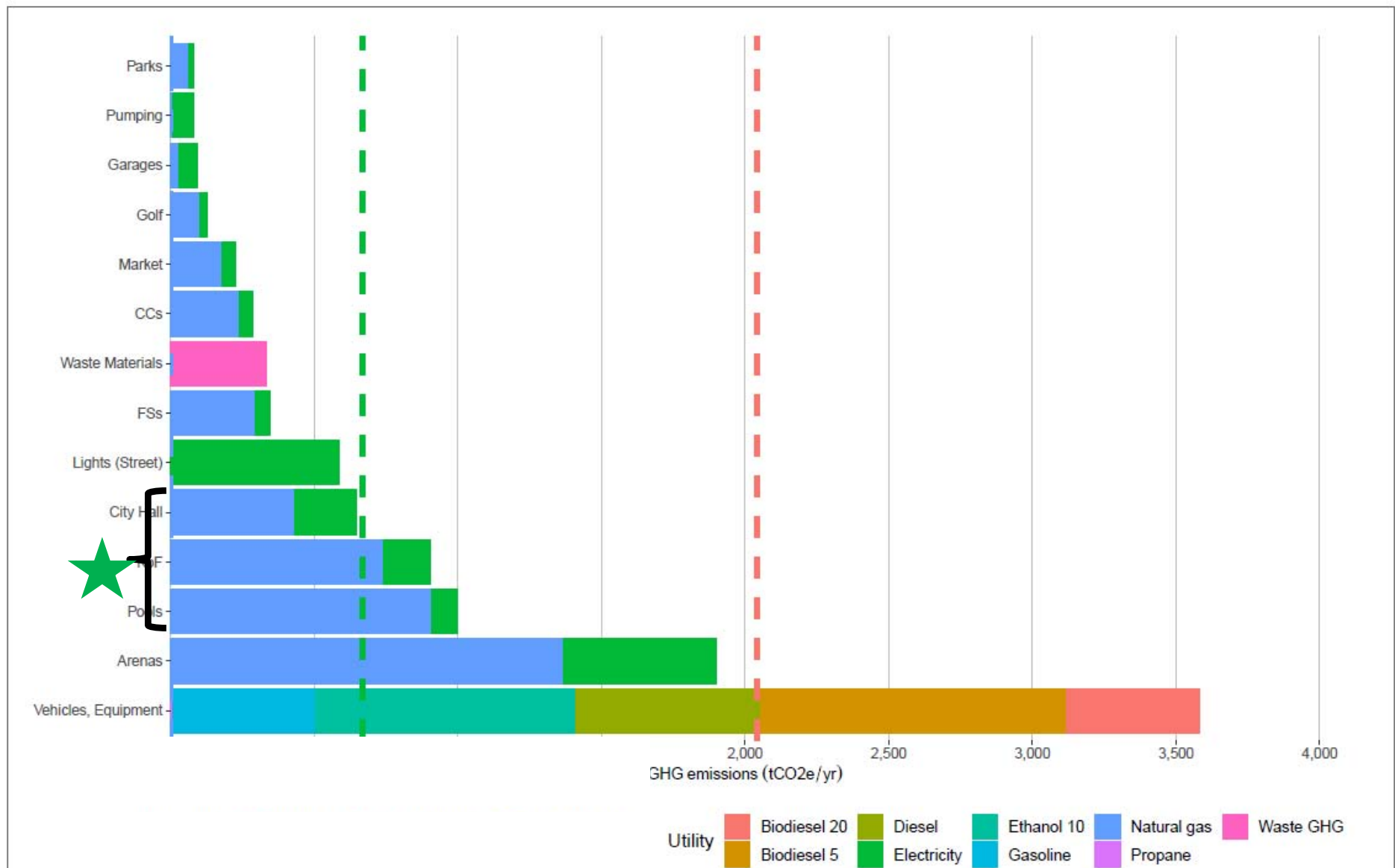
Corporate GHG Emissions

2021 Corporate Emissions by Focus Area (eCO₂)

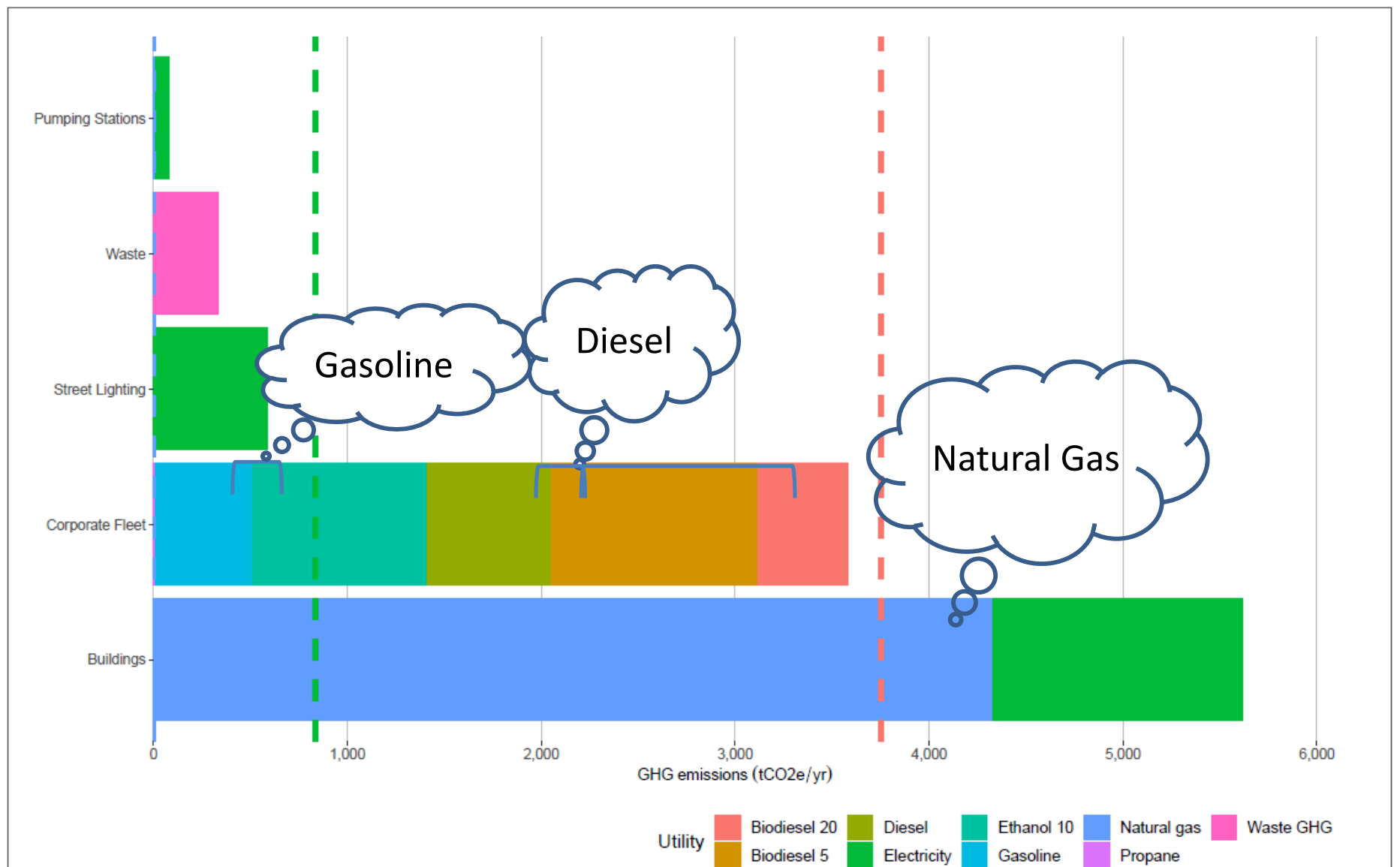
- Facilities
- Corporate Fleet and Equipment
- Streetlights
- Corporate Waste



Corporate GHG emissions



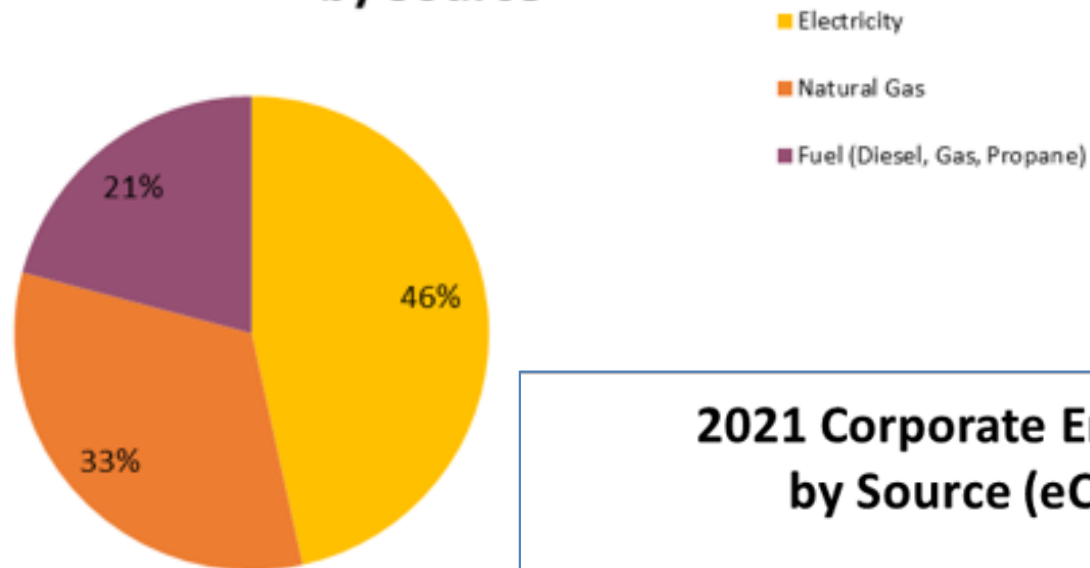
Corporate GHG emissions



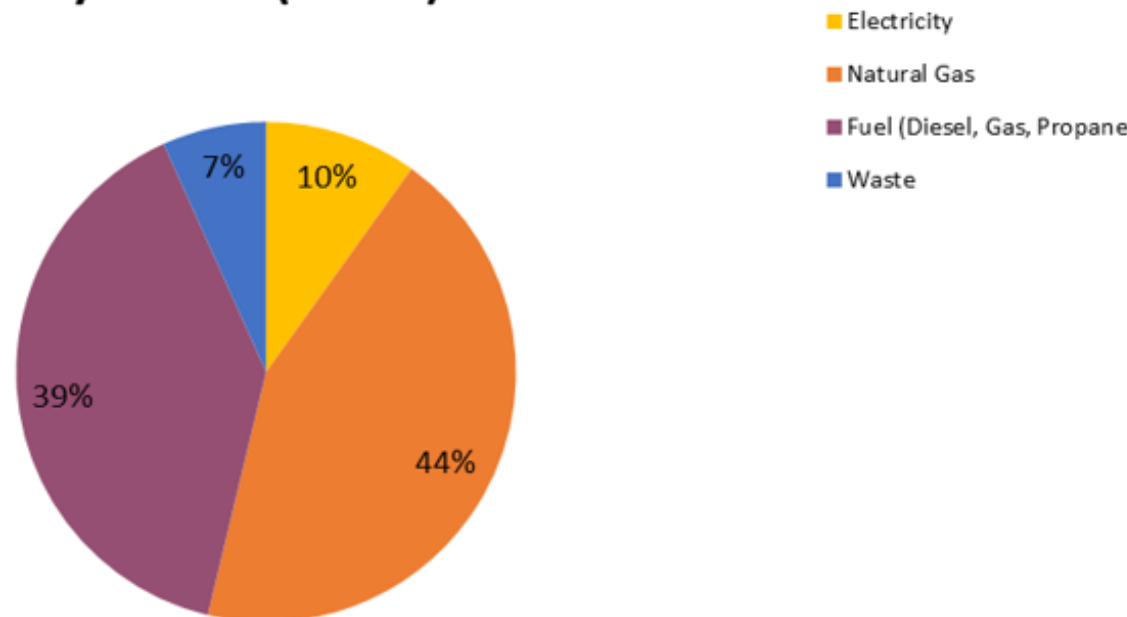
Corporate GHG emissions



**2021 Corporate Energy
by Source**



**2021 Corporate Emissions
by Source (eCO₂)**



Call to Action

Corporate Climate Action Priorities



Corporate GHG reduction priority focus areas:

- Facilities
- Fleet and Equipment

Corporate pathways forward:

- 1. Energy Conservation** – use less/demand less energy and use energy more efficiently
- 2. Fuel Switch** – convert to low carbon energy sources
 - switch facilities off natural gas
- 3. Generate Energy** – generate local renewable Energy

Call to Action – net-zero by 2050



Corporate Target



Community Target



- Renew, deepen and align our commitment
- **Net-zero by mid century**
- Strategic, systemic, deeply integrated
- Corporate processes, business planning and policies

Next steps CorCAP 2.0 Part 1



Phase 1 Initiate

(March 2022-June 2022)

Phase 2 Scan

(July 2022-February 2023)

Phase 3 Develop Plan

(2023)



Phase 4 Implement Plan

(2023-forward)

Council Feedback – using Menti



Go to:

<https://www.menti.com>

enter the code

1696 3317

Menti Questions



For consideration by Council:

1. For consideration by Council: *“I am interested in exploring strategies to achieve net-zero corporate emissions by 2050, which goes beyond Council’s community commitment of an 80% reduction by 2050, recognizing that this may increase the associated costs over the next 26 years.”*
2. *“I am interested in prioritizing corporate efforts in the next Corporate Climate Action Plan on GHG reductions along these three pathways: Energy Conservation, Fuel Switching and Generating Local Renewable Energy”*
3. For consideration by Council: *“I am interested in prioritizing efforts in the next Corporate Climate Action Plan on corporate GHG reductions from two focus areas:*
 - a. *Facilities - especially arenas, pools, and administrative buildings*
 - b. *Corporate Fleet, and Equipment - especially fuel switching gasoline vehicles now to electric and fuel switching diesel vehicles in the future”*

For Discussion: “It is anticipated that sustained corporate GHG emission reductions will require strategic, systemic, and deeply integrated changes to corporate processes, business planning and policies. As we develop the plan and seek support to adopt a new plan with a deeper commitment what are you looking for in a plan?”