

# Corporate Climate Action Plan 2.0

## “CORCAP 2.0”



## ***Pivot: Net-Zero***

**April 22, 2024 (Earth Day)**

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Development Services – Office of the GM

# Presentation outline



- 1. Overview Municipal Climate Action**
- 2. 2023 Corporate update on Progress**
- 3. Introduce *Pivot: Net-Zero***



## **Part 1: Corporate Emissions**

- *Pivot Net-Zero*

## **Part 2: Community Emissions**

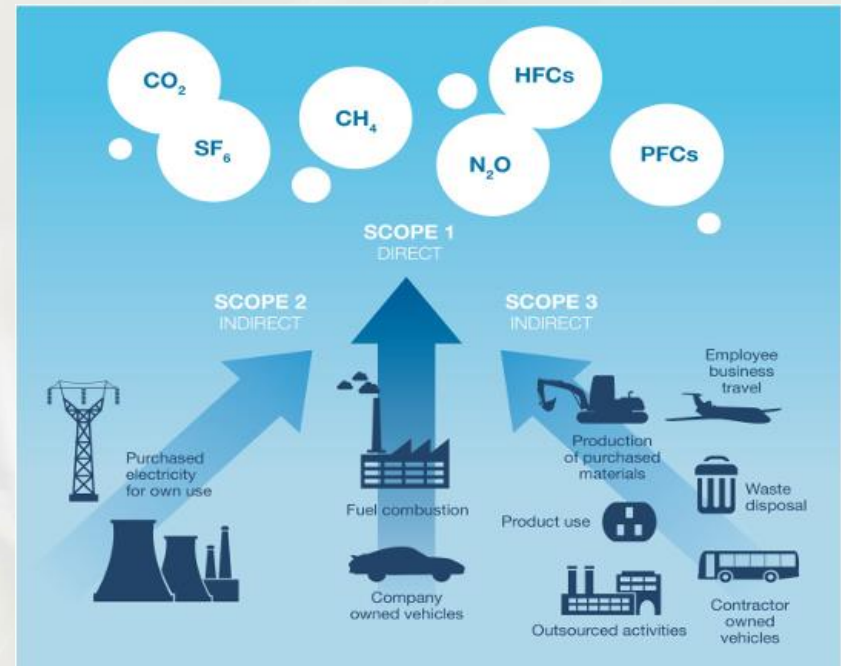
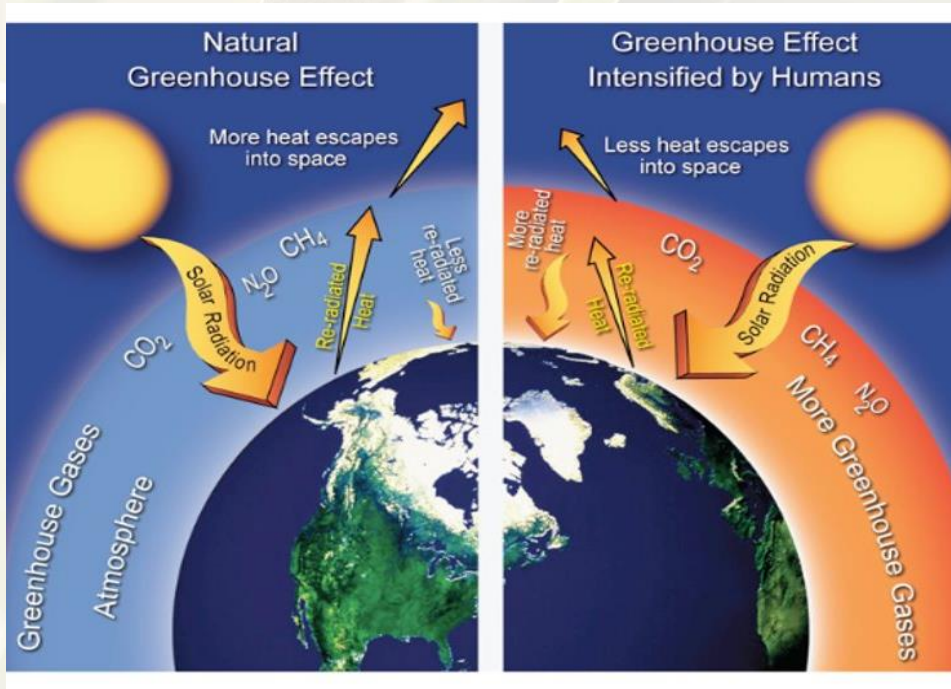
- Kitchener Utilities Clean Energy Transition Strategy
- TransformWR

## **Part 3: Climate Adaptation**

- Corporate Climate Adaptation Plan
- Community Climate Adaptation Plan

# Climate Change 101

- Fossil Fuels + Greenhouse Gas emissions (GHGs)
- Climate Change
- Energy Transition



# Municipal Climate Action

## Corporate GHGs

*Pivot: Net-Zero*



## Community GHGs



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

# Local Climate Changes

## Warmer

## Wetter

## Wilder

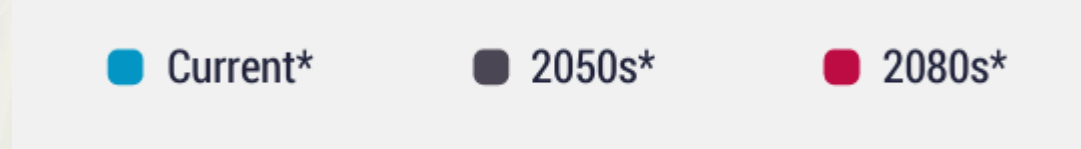
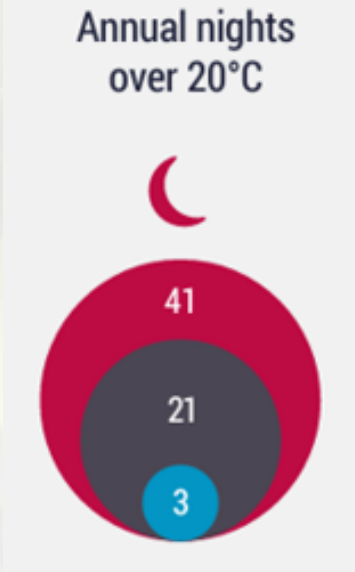
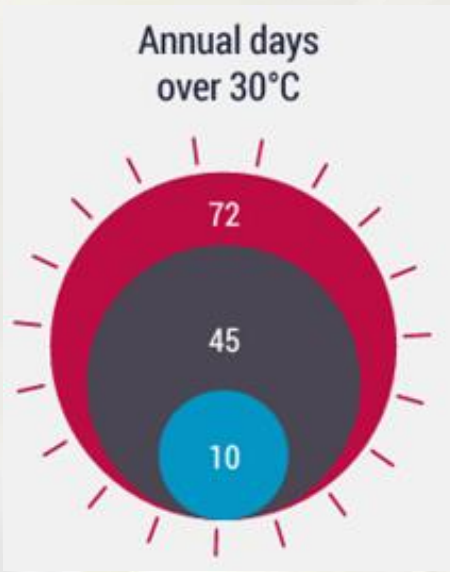
## Rising temperatures

Temperatures are projected to increase **+5°C** by the 2080s

More extreme heat and extended heat waves

+1.1°C.... +2°C

Annual days below -15°C



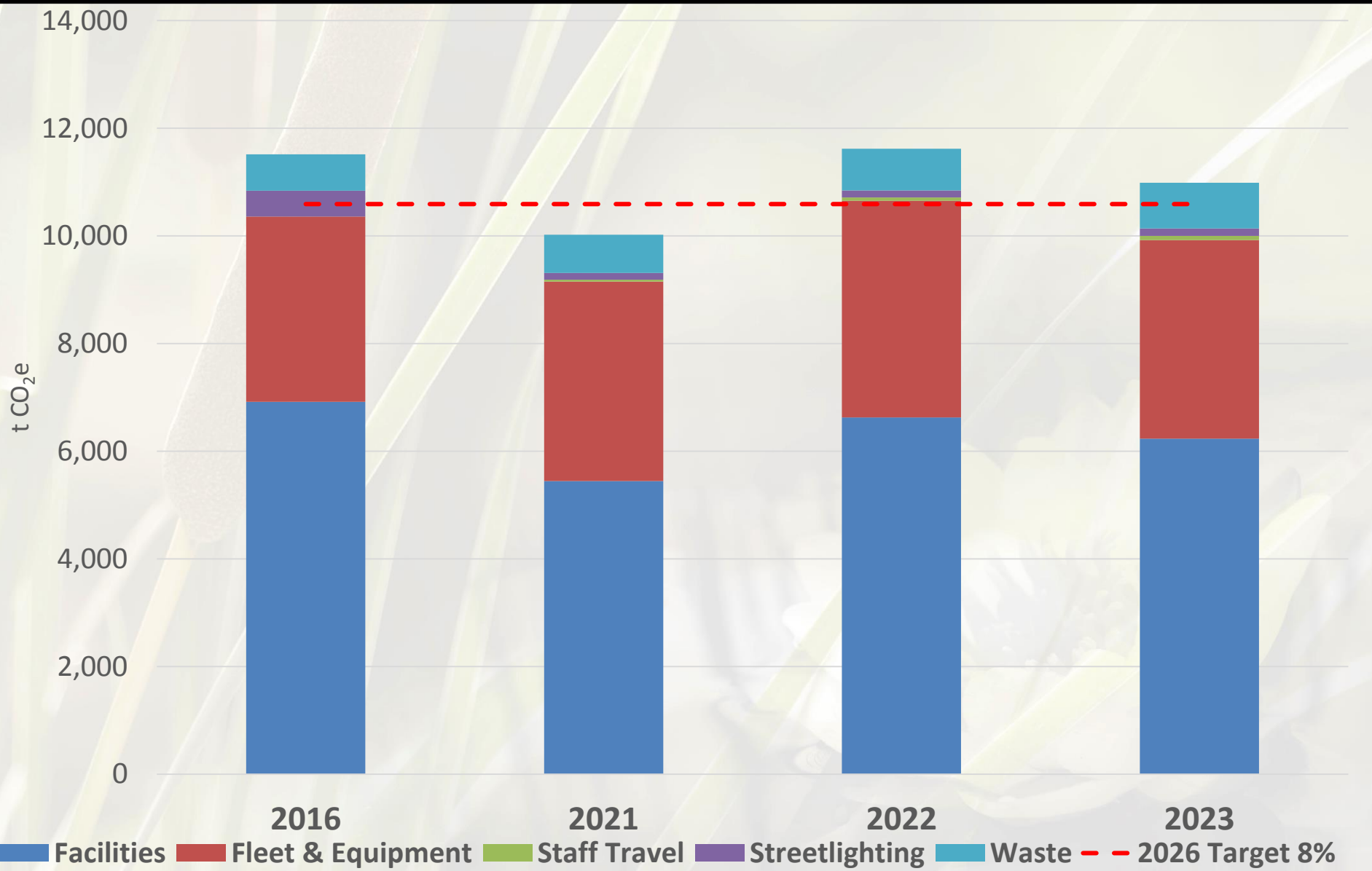


# 2023 Corporate GHG Emissions Profile

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

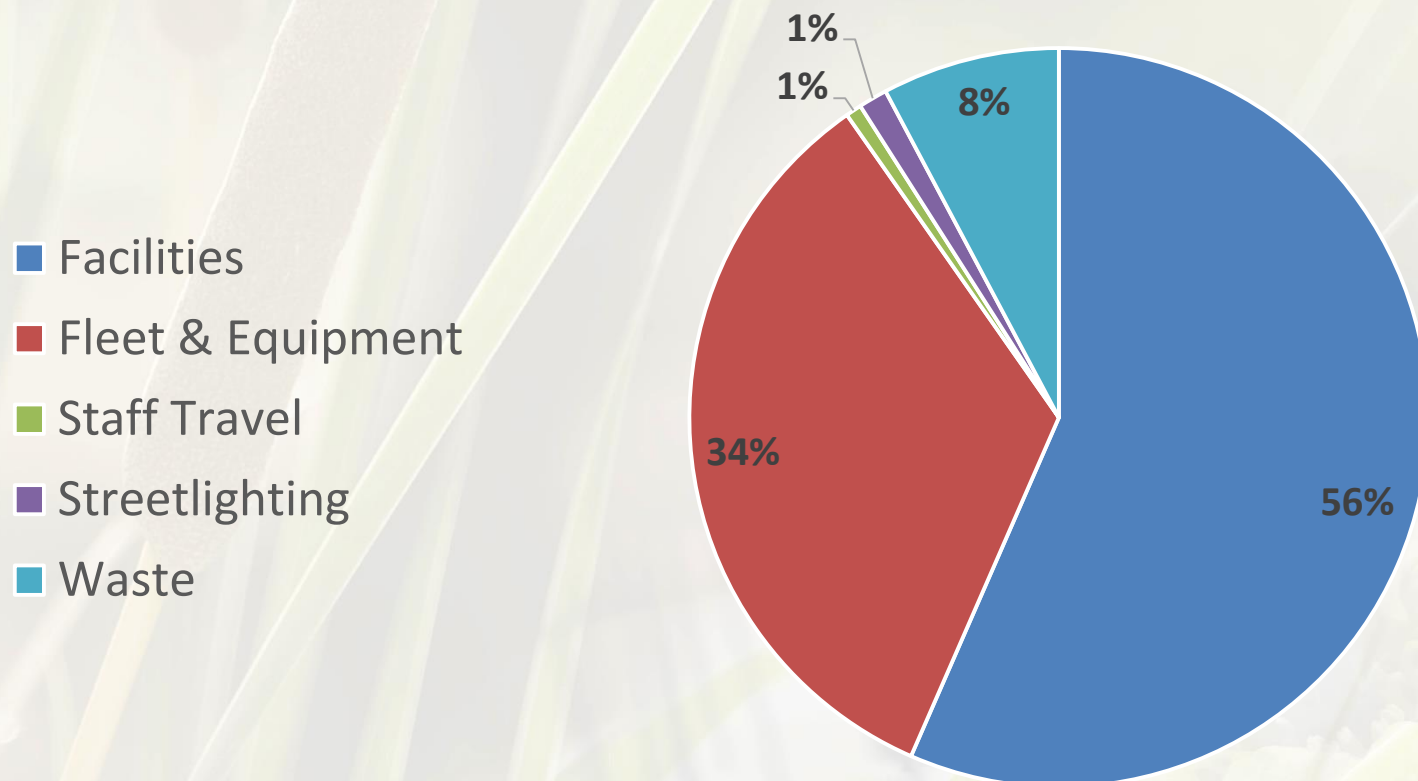
**Looking Back *Moving Forward*...**

# Corporate GHG Emissions 2016 - 2023





# 2023 Corporate GHG Emissions

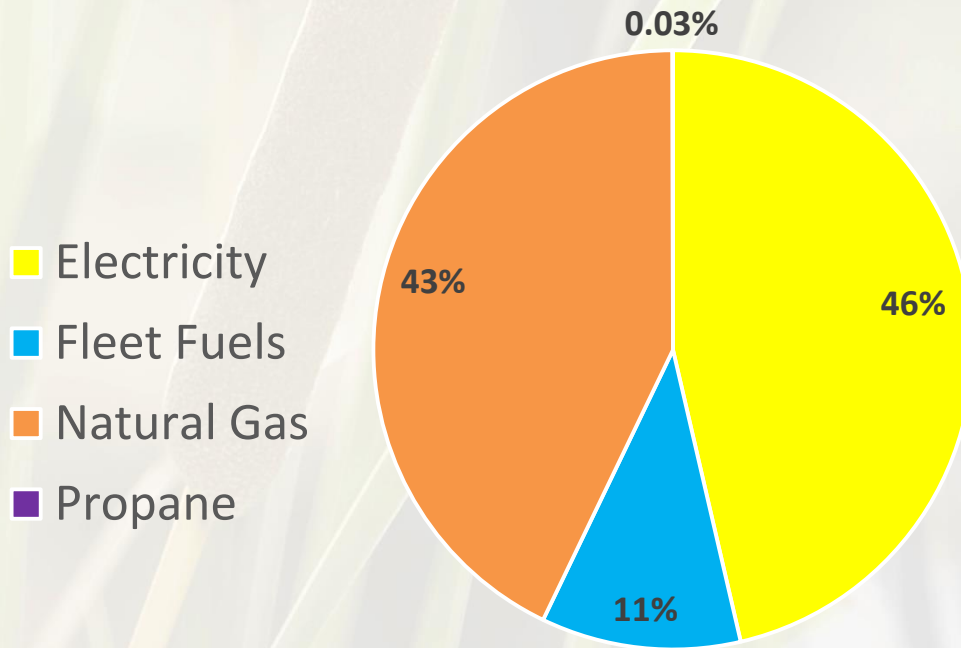


Total GHG Emissions 2023 = 10,947 tCO<sub>2</sub>e

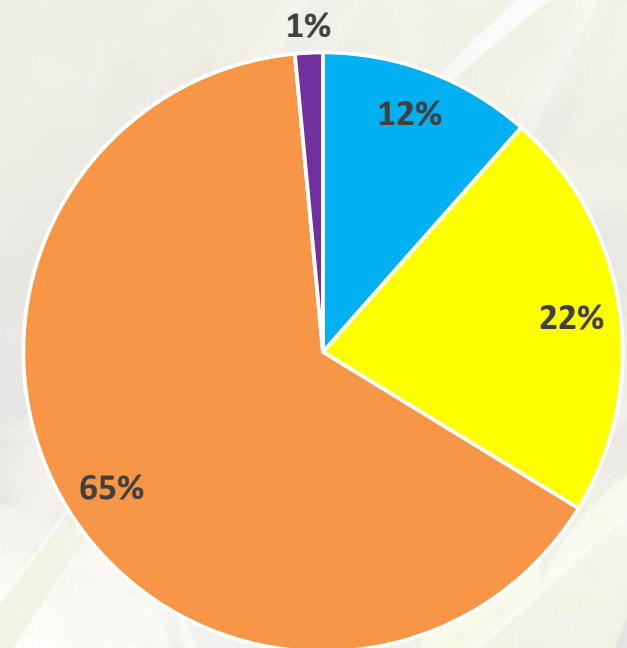
# 2023 Energy Sources + GHGs



## Energy Consumption by Energy Source



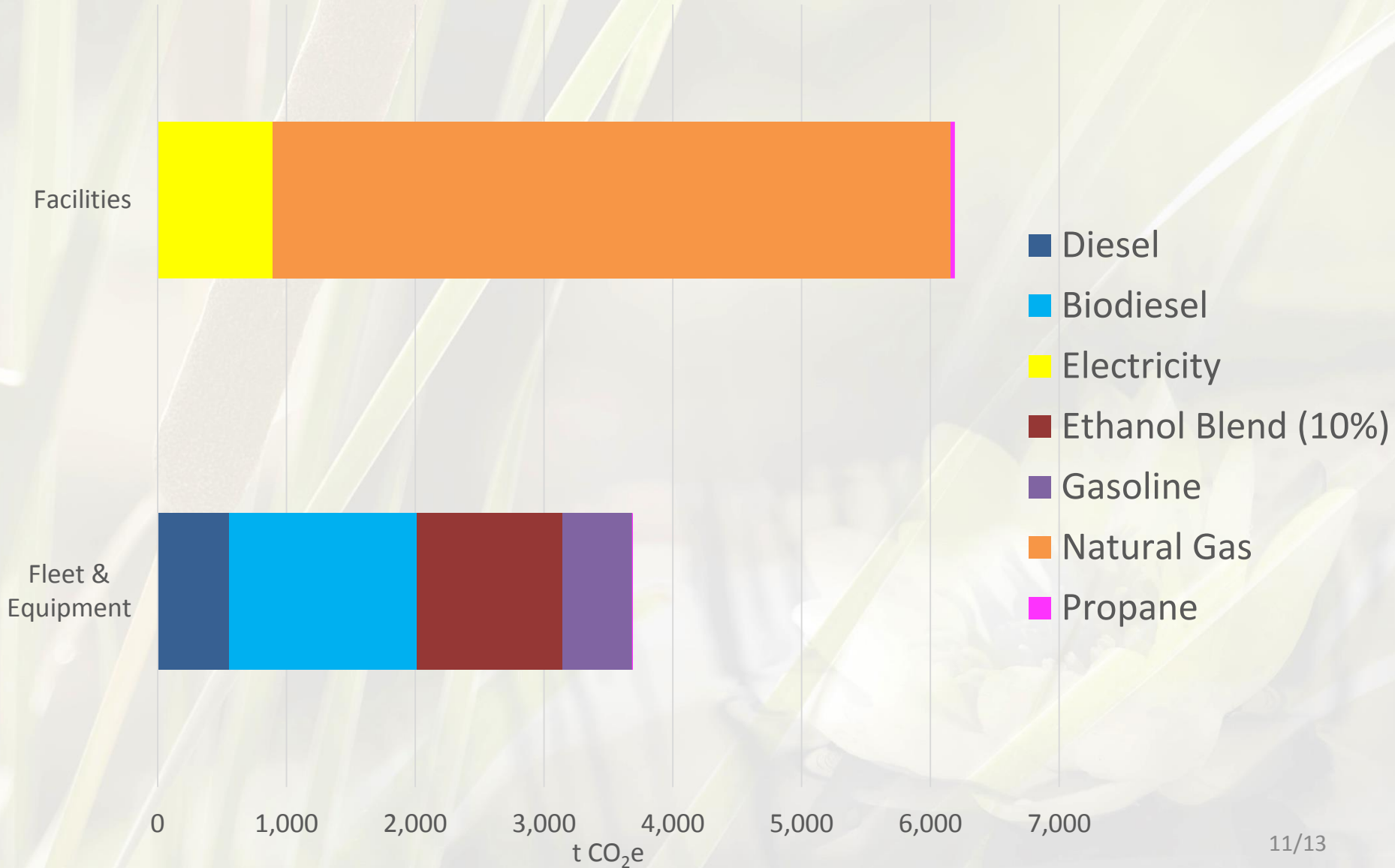
## Emissions by Energy Source



- Electricity
- Fleet Fuels
- Natural Gas
- Propane

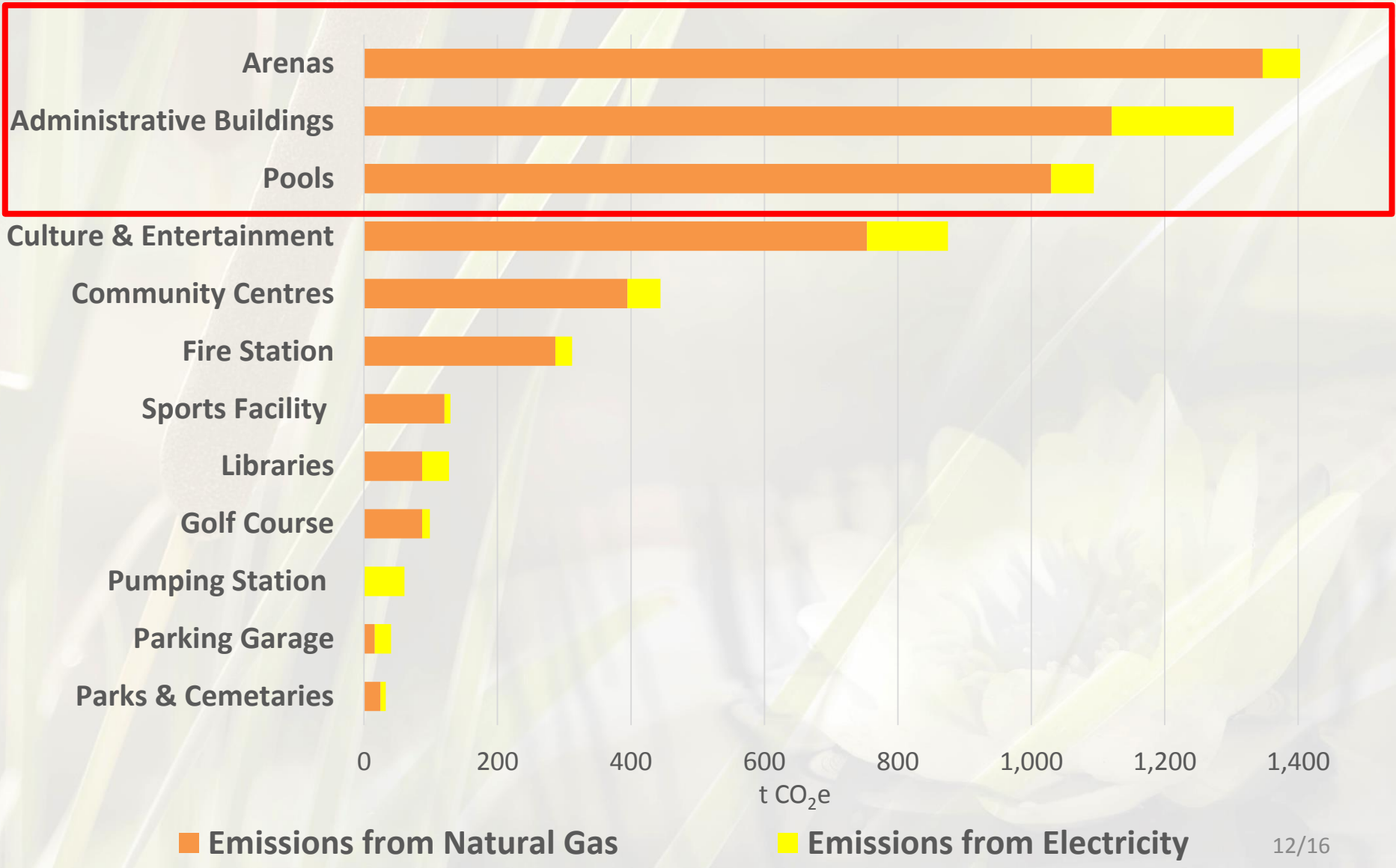
\*Fleet fuels = Diesel, Biodiesel, Gasoline

# 2023 GHG Emissions by Energy Source





# 2023 Facilities GHGs



# ***Pivot: Net-0***

Looking *Forward...*

# Pivot: Net-Zero

## Existing Target

- 2026 8% reduction target remains in place



## The priority focus areas:

- Corporate Facilities and Fleet

## The pathways:

- Energy Conservation
- Fuel Switching
- Generating Renewable Energy



## The Net-Zero Pivot:

- Endorse net-zero as a new, corporate, 2050 target
- Focus now on reducing corporate GHG emissions as close to zero as possible



## The Plan:

- 2024-2027
- 47 actions (Appendix B)

## Progress Reporting:

- Earth Day, yearly (pgs. 31-32)





# Financing Net-Zero

- Significant capital investments needed
- Estimated \$250M in additional capital funding needed over the next 25 years or \$10M/year
- Technological solutions + affordability
- At scale
- Expand internal funding opportunities
- Grants
- Advocacy

# Discussion



## Recommendations:

That the 2023 City of Kitchener Corporate greenhouse gas (GHG) emissions inventory update be received for information; and,

That Council endorse a corporate 2050 net-zero target; and,

That the second-generation Corporate Climate Action Plan (CorCAP) 2.0 *Pivot: Net-Zero*, Attachment A to DSD-2024-074 be endorsed; and further,

That the Corporate Climate Action Plan (CorCAP) 2.0 *Pivot: Net-Zero*, Attachment A to DSD-2024-074, be submitted to the Federation of Canadian Municipalities, Partners for Climate Protection Program in support of renewed Milestones 1 - 3.