



Hamilton

**PW14050(a)
Item 8.1**

**CORPORATE ENERGY AND
SUSTAINABILITY POLICY**

PUBLIC WORKS COMMITTEE

February 19, 2021

Policy Background

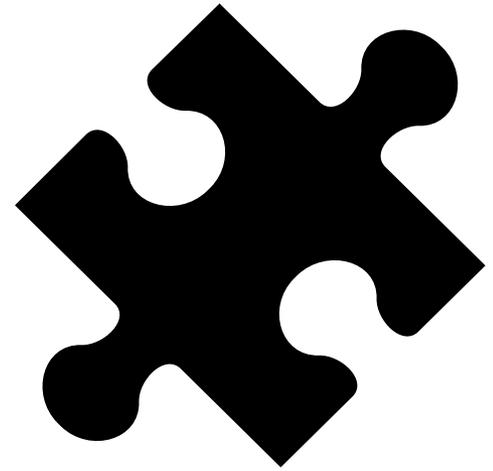
- 2007 Corp. Energy Policy;
- 2008 Energy Commodity Policy;
- 2014 Combined Corp. Energy and Commodity Policies;
- **2021 Corporate Energy & Sustainability Policy.**

NEW

Energy = Emissions



How does it all fit together?



- **Climate Change Emergency:**
led by Healthy & Safe Communities;
- **Community Energy and Emission Plan:**
led by Planning and Economic Development;
- **Corporate Energy and Sustainability Policy:**
led by Public Works (Energy, Fleet and Facilities Management)
- **Climate Resiliency Program:**
Led by Public Works (GM's office);

Policy & Action Framework

CLIMATE CHANGE EMERGENCY

Operational Plans & Strategies (City Owned Assets)

- Green Fleet Plan, Transit Strategy
- Corporate Building Efficiency
- Water & Wastewater



Community Energy & Emission Plan



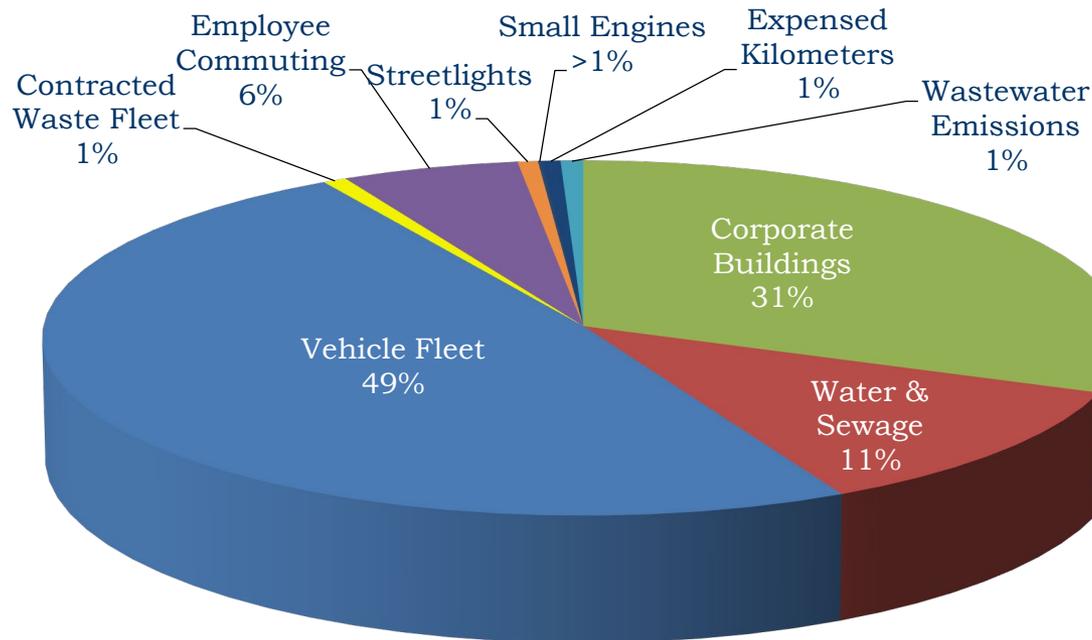
Corporate Energy & Sustainability Policy '07



Community Plans & Strategies

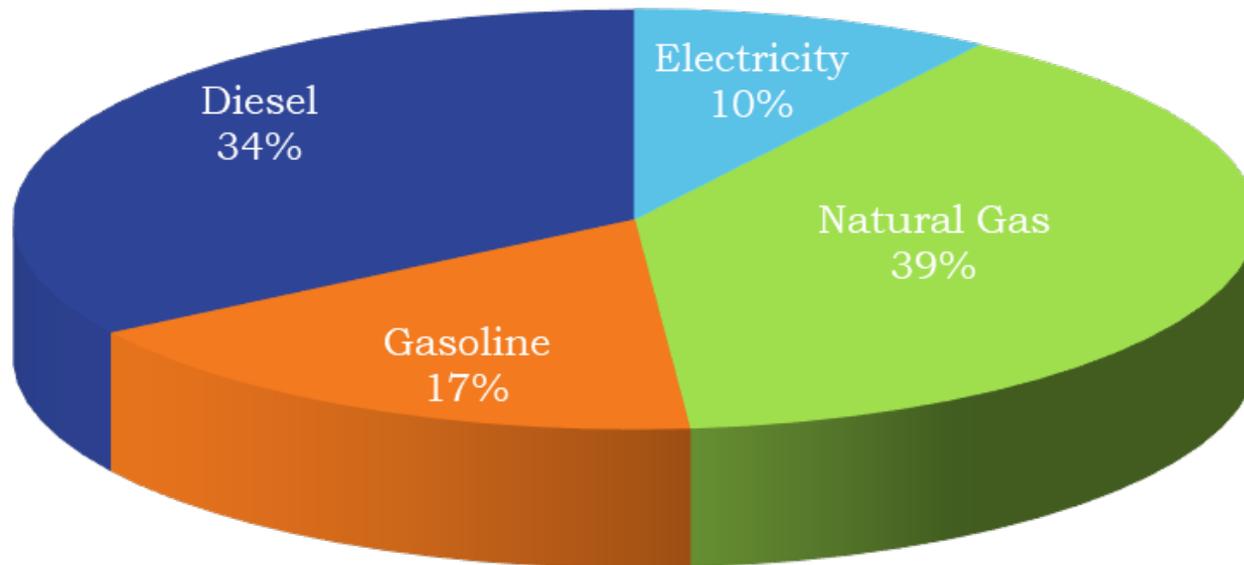
Corporate Emissions (2018)

(92% from Fleet, Buildings & Water/Wastewater)



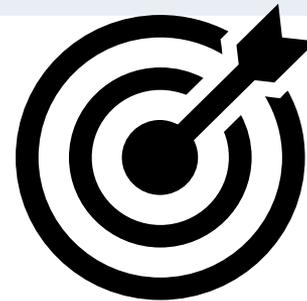
Corporate Emissions (2018)

(90% from Diesel, Gasoline and Natural Gas)



Corporate Energy & Emission Targets

| Year | Energy Intensity | Greenhouse Gas Emissions New (old) |
|------|------------------|------------------------------------|
| 2030 | 45% | 50% |
| 2050 | 60% | 100% (80%) |



Mantra for buildings and most operations:

1. Energy Efficiency

(often the best use of limited funds);

2. Renewable Energy opportunities

(only after the building is as efficient as possible);

3. Renewable Energy Credits

(once we have exhausted all other options, we consider renewable energy credits).

Policy = bumpers on bowling lane!



Areas of focus:

- **Transit:**
 - Replace diesel buses with low emission options;
 - Manage CNG bus fleet and look to offsets/credits as needed.
- **Green Fleet Plan:**
 - Ensure acquisitions undergo life cycle analysis and target low emission options.
- **Renewable Energy Optimization:**
 - Solar PV;
 - Renewable Natural Gas (RNG);
 - Renewable Electricity.
- **Building Retrofits:**
 - Optimize high emission sites as a priority;
 - Optimize heat recovery where possible;
 - Life cycle analysis for HVAC systems, envelope to minimize energy use.
- **Water and Wastewater:**
 - Manage energy use throughout the system;
 - Leverage biogas production for renewable energy purposes.

Annual Reporting and Activities Continue

- Energy & Commodity Reports
- Provincial requirements addressed
- Manage ongoing regulatory changes, billing, rate options, etc

We do have a pathway to met our targets

