

Guelph's Community Call to Climate Action

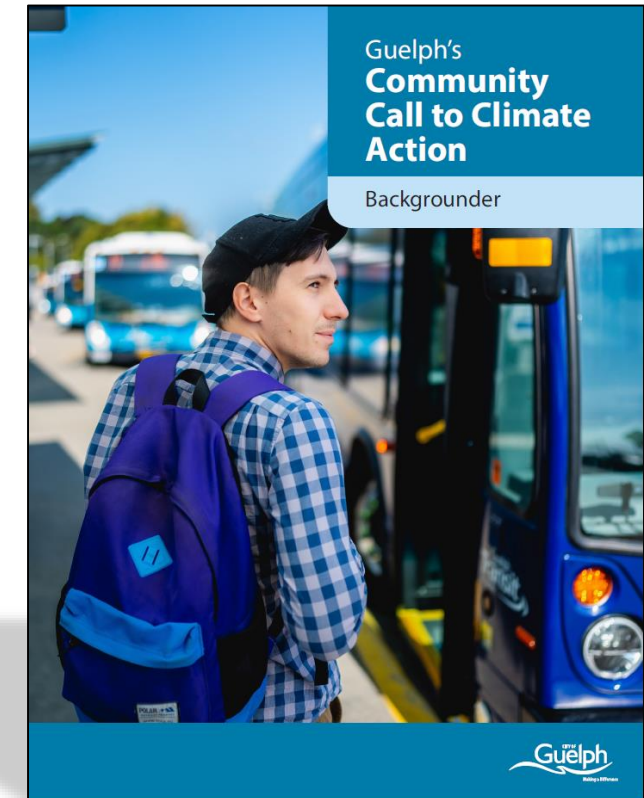
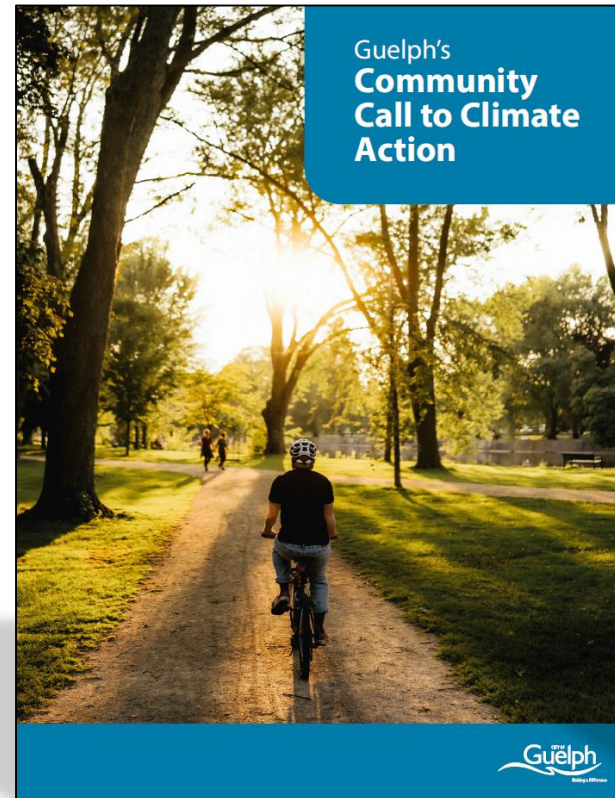
Bryan Ho-Yan, M.A.Sc., P.Eng., CEM

May 6, 2025

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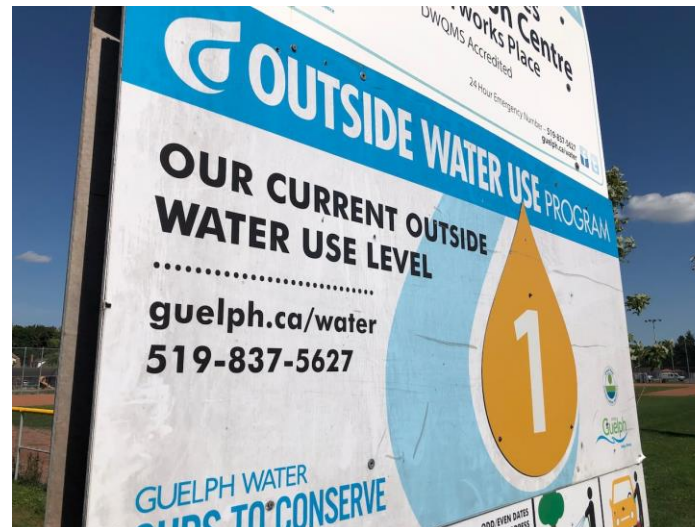
Support everyone in Guelph...

- better understand GHG emissions from energy use
- identify ways we can reduce GHG emissions
- help the Guelph community focus our collective climate action



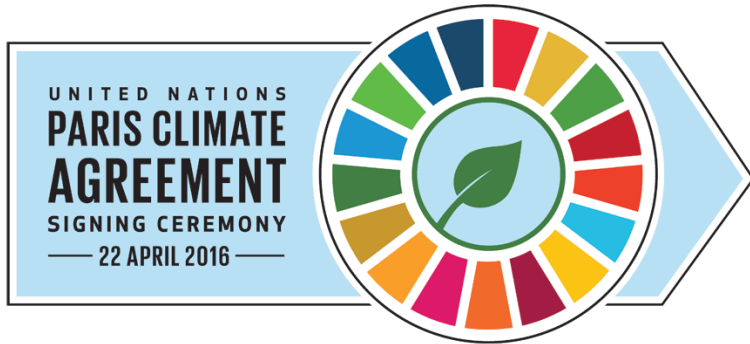
Where we see climate change in **Guelph** everyday

- Heat waves
- Heavy snow fall
- Ice storms
- Extreme winds
- Flooding
- Drought
- Infestation



- Biodiversity decline
- Human health impacts
- Infrastructure damage
- Increased cost of living

Climate targets



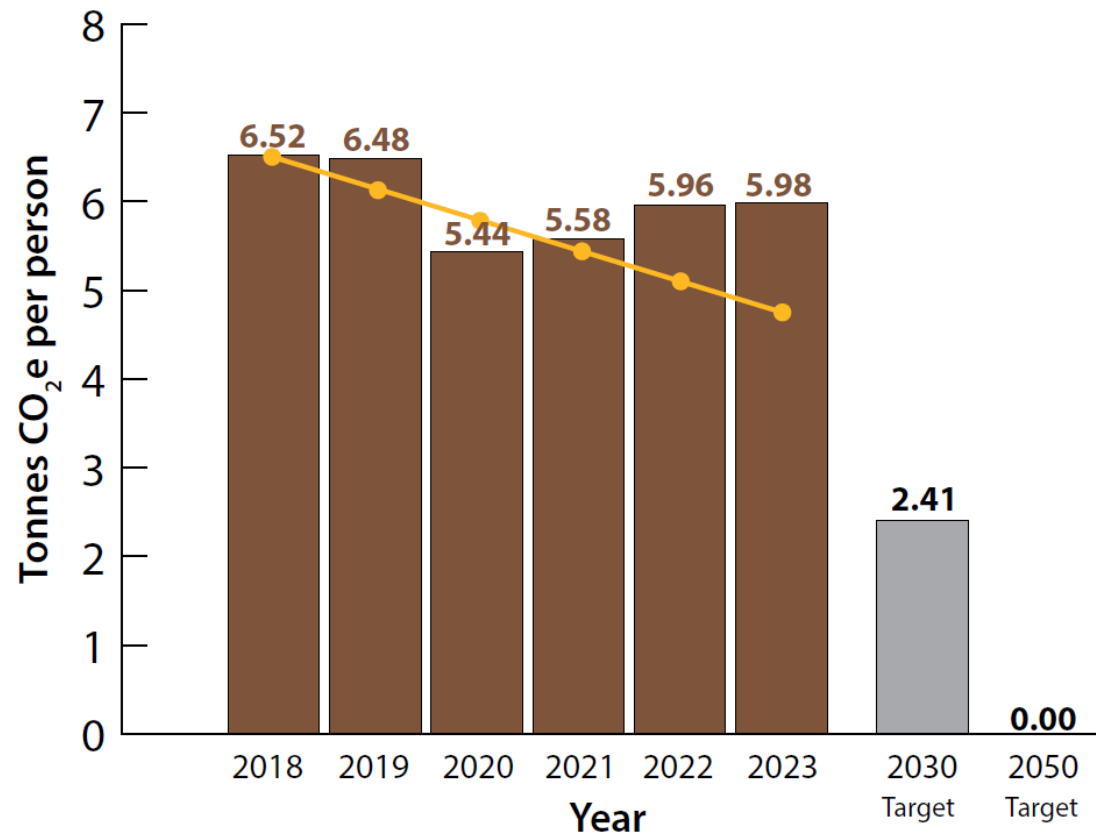
- **Canada**–Canadian Net-Zero Emissions Accountability Act
- **Ontario**–Made-in-Ontario Environment Plan



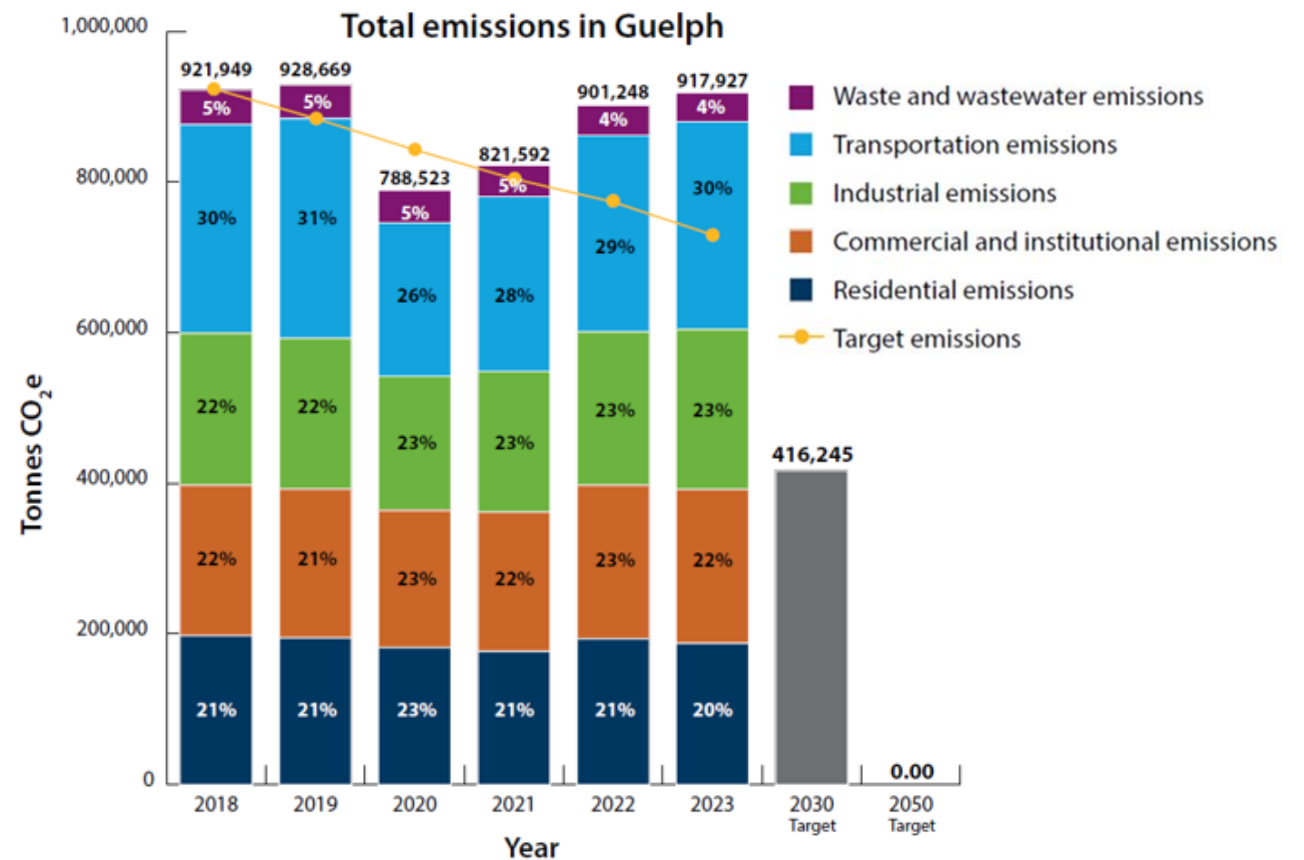
- Reduce per capita GHG emissions by **63%** against the 2018 baseline **by 2030**
- Work together to become a **net zero carbon** community **by 2050**

Community GHG emissions

Per capita emissions



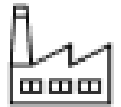
Total emissions



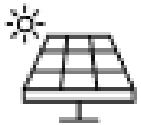
Key focus areas



Energy efficient and low carbon buildings



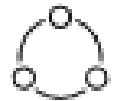
Decarbonized business operations



Renewable energy



Sustainable transportation



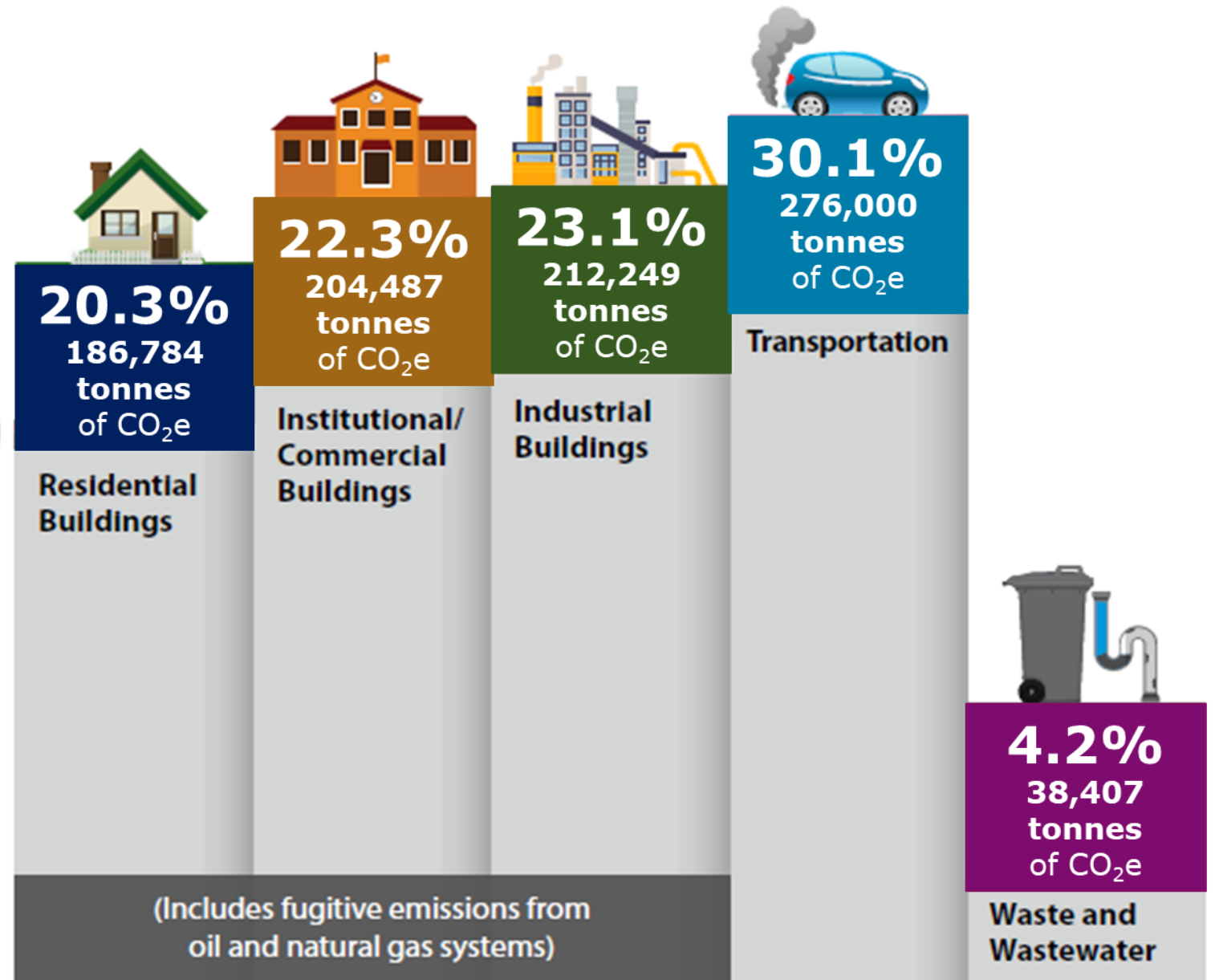
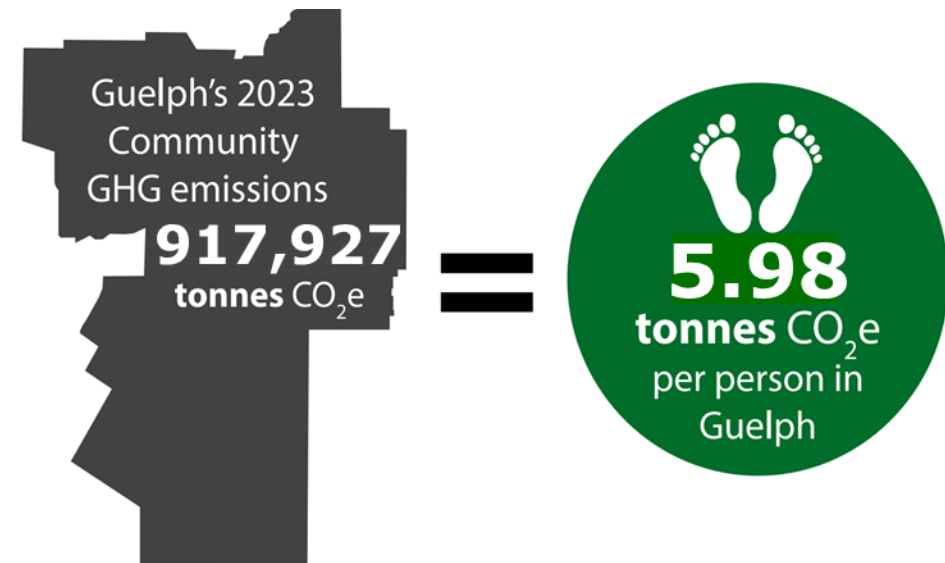
Circular economy



Natural environment

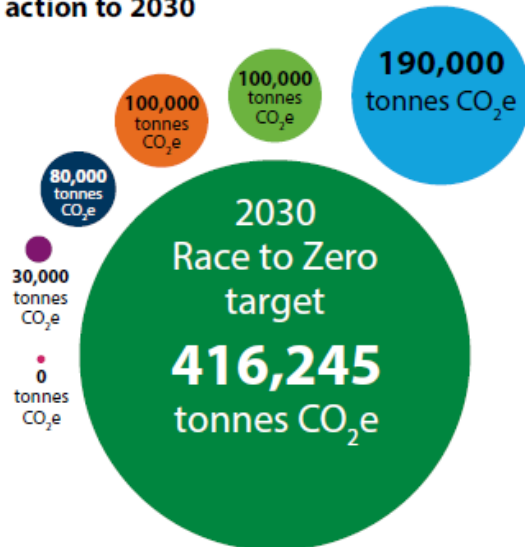
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Sector GHG emissions



Priority climate actions

Carbon reduction potential
of each priority climate
action to 2030



Total 2023
emissions
917,927
tonnes CO₂e

● Homeowners:

- Have **40,000** homes in Guelph change their heating systems to low carbon heat pumps

● Builders and Developers:

- Design and build **all** new buildings that are more energy efficient and be net zero carbon

● Vehicle owners:

- Replace **60,000** internal combustion vehicles with sustainable transport modes or electric vehicles

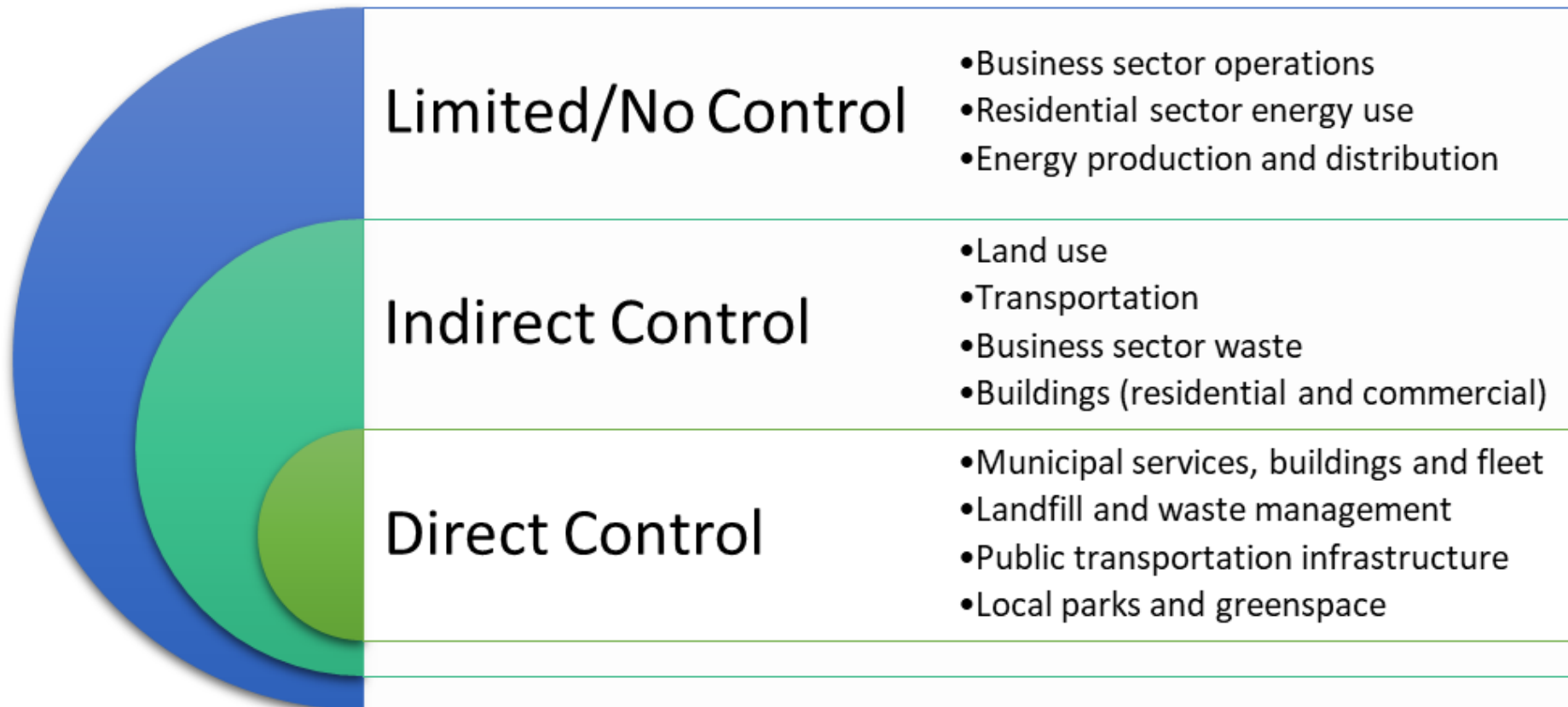
● City:

- Manage and maintain fugitive emissions from waste management and wastewater treatment to reduce emissions by **30,000 tCO₂e**

Companies:

- All industrial companies in Guelph must work together and focus resources to reduce sector emissions by **100,000 tCO₂e**
- All commercial and institutional companies in Guelph must work together and focus resources to reduce sector emissions by **100,000 tCO₂e**

Sphere of influence



adapted from [Federation of Canadian Municipalities Factsheet: Municipal governance for deep decarbonization](#)

Community supporting efforts

- Collecting emissions data, tracking progress and reporting
- Teaming up with community groups and environmental non-profits
- Enabling household efficiency upgrades and lowering energy costs
- Empowering youth to be climate leaders
- Working alongside industrial, commercial, and institutional (ICI) partners
- Strengthening climate awareness and promoting activation in the community
- Using policy to guide climate action throughout the community
- Investing in reliable infrastructure to help the community be more sustainable
- Shedding light on energy access and poverty challenges in Guelph

Answer the Community Call to Climate Action

