



TransformTO: Critical Steps for Net Zero by 2040

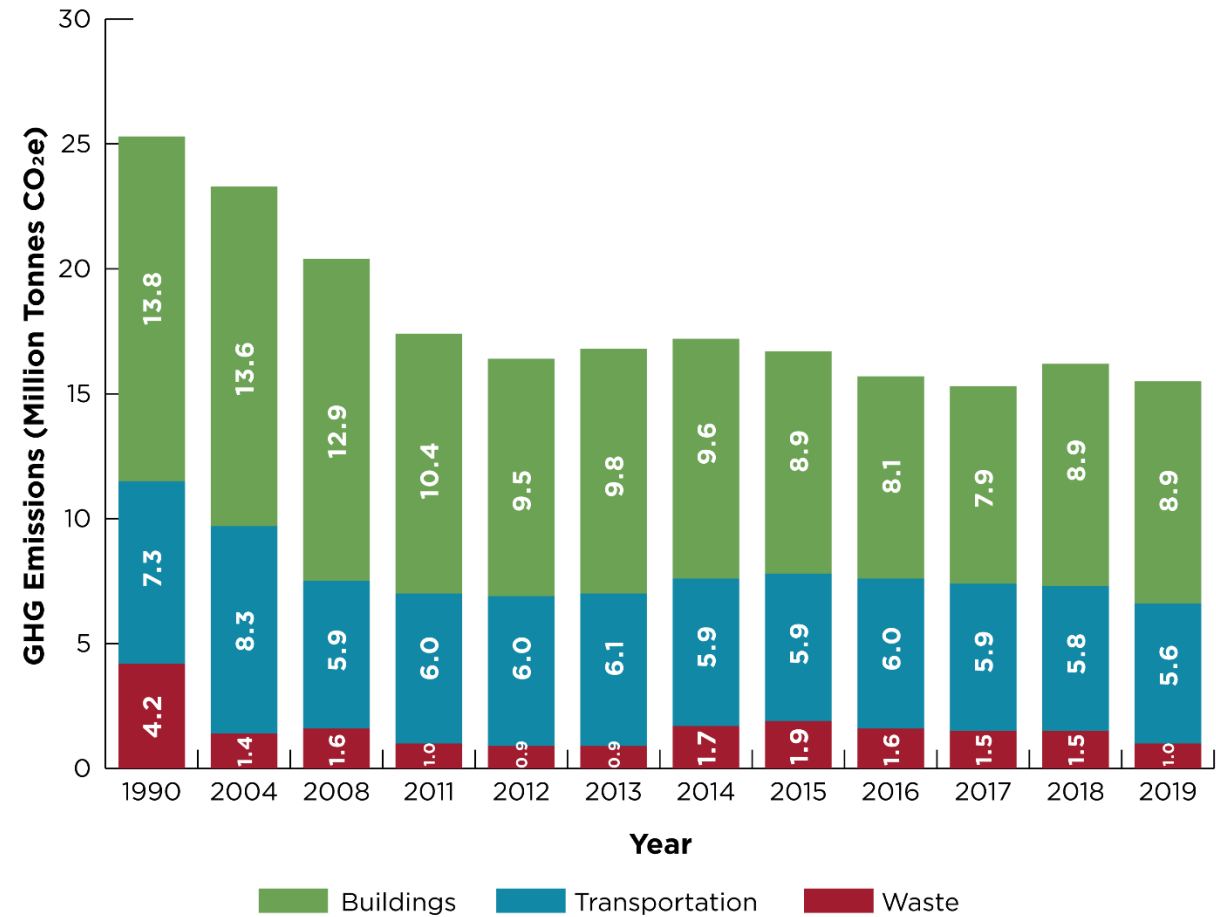
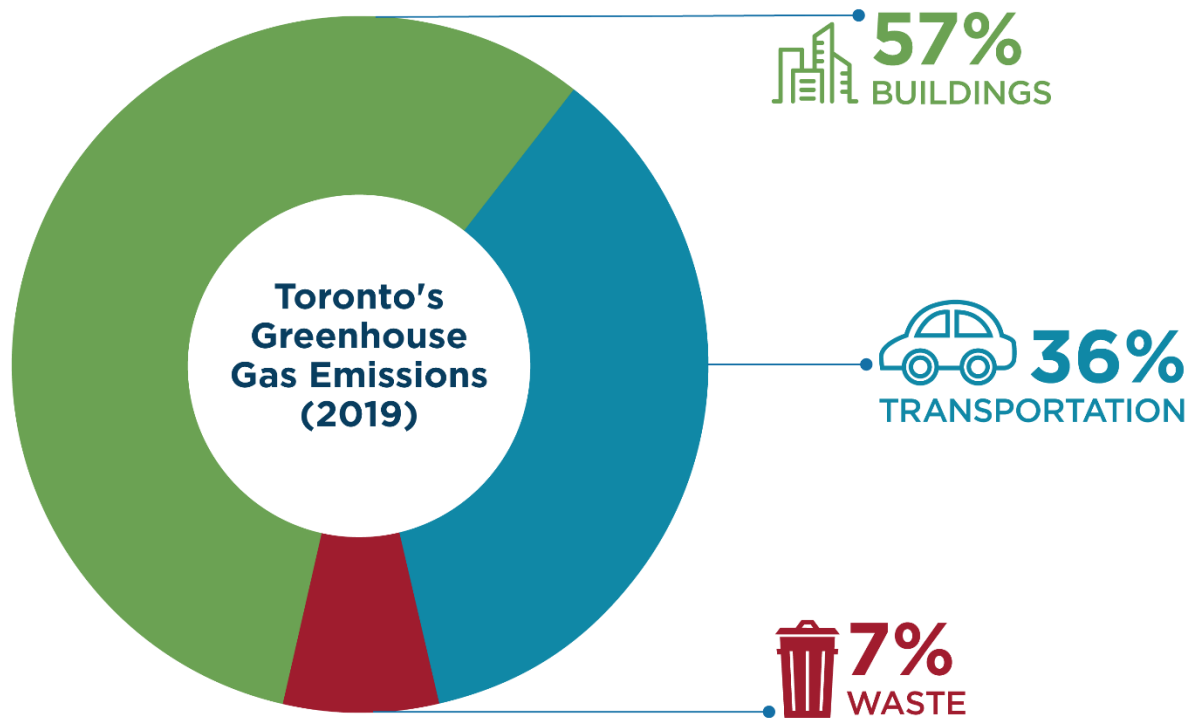
TransformTO: Net Zero Strategy

- The TransformTO Net Zero Strategy proposes a target of Net Zero GHG emissions by 2040
- Our existing 2030 target of 65 per cent reduction is already among the most ambitious interim targets in North America
- Toronto's current actions are the right ones but we must act more quickly meet the scale required to address the climate emergency
- Climate investments will mean better outcomes that will last longer, reduce exposure to climate risks in future, and will be cheaper now than later

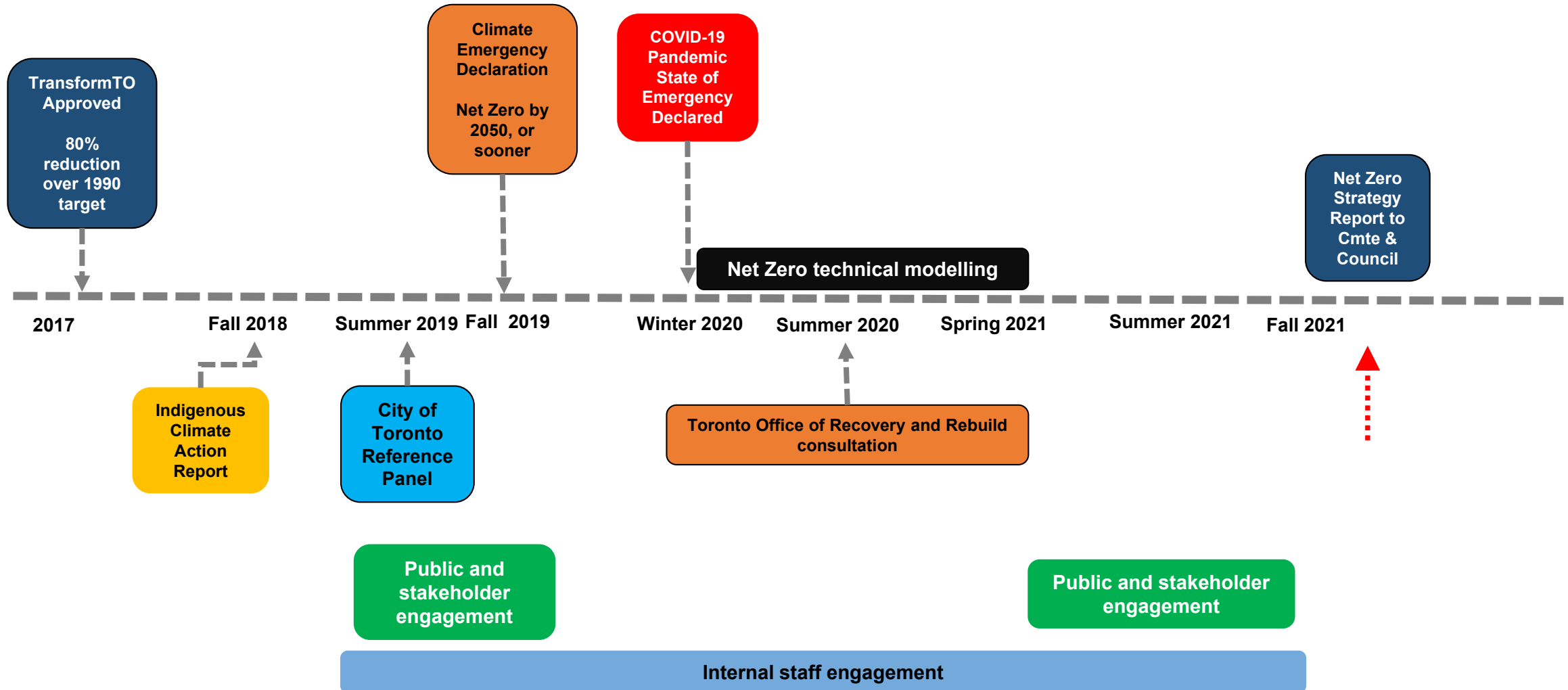
What is net zero?

'Net zero' is achieved when we decarbonize our city meaning we change how we move, build, generate energy, and dispose of our waste so that the greenhouse gases we produce are as close to zero as possible.

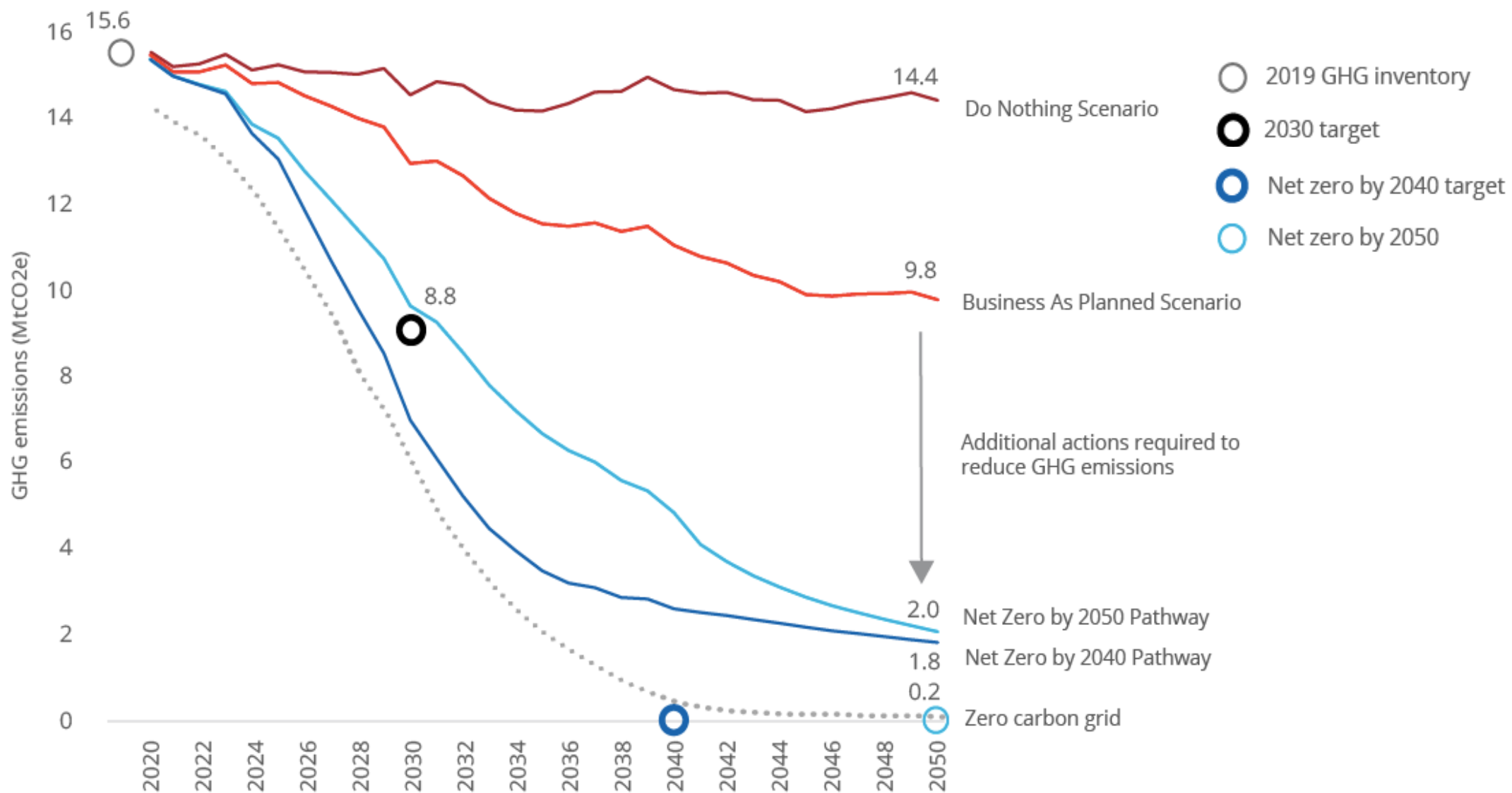
Where We Are: Toronto's 2019 GHG Emissions Inventory



Critical Steps to Net Zero: The Process



Where We Need to Be: Net Zero Pathway



Five Critical Steps



1. Carbon accountability through carbon budgets



2. Accelerate significant reduction of natural gas



3. Establish building performance targets



4. Increase low carbon transportation options



5. Increase local renewable energy & storage

Staff Report: New Targets

- Net zero greenhouse gas emissions by 2040, which is 10 years ahead of the current Council adopted target
- Sector-based targets for 2030 (buildings, transportation, energy, waste)
- 45 percent reduction in community-wide greenhouse gas emissions by 2025, from 1990 levels
- Endorsement of detailed Net Zero Strategy matching each sector-based target with a set of immediate actions for 2022-2025

New 2030 Targets:

Actions that we have in place are the right ones & need to scale up

- 100% of new buildings built to be near zero GHG emissions
- GHGs from existing buildings are cut in half, from 2008 levels
- 50% of community-wide energy comes from renewable or low-carbon sources
- 25% of commercial and industrial floor area is connected to low carbon thermal energy sources
- 75% of school/work trips under 5km are walked, biked or by transit
- 30% of registered vehicles are electric
- Identify pathways to more sustainable consumption in City operations and in Toronto's economy
- 70% residential waste diversion from the City's Integrated Waste Management System
- Develop and implement strategies to improve greenspace infrastructure to build climate resilience
- Ensure equitable implementation and ongoing improvement of engagement and reporting
- Lead by Example – City of Toronto corporate GHG emissions are reduced by 65% over 2008

Staff Report: New Process & Powers

- Advisory Committee to be established, and ongoing engagement with youth, Indigenous communities and equity-deserving groups
- Authority for EED and divisions to institutionalize and implement actions including: codification, entering into agreements, direct intervention when appropriate in processes of other levels of government



Staff Report: New Targets (Leading by Example)

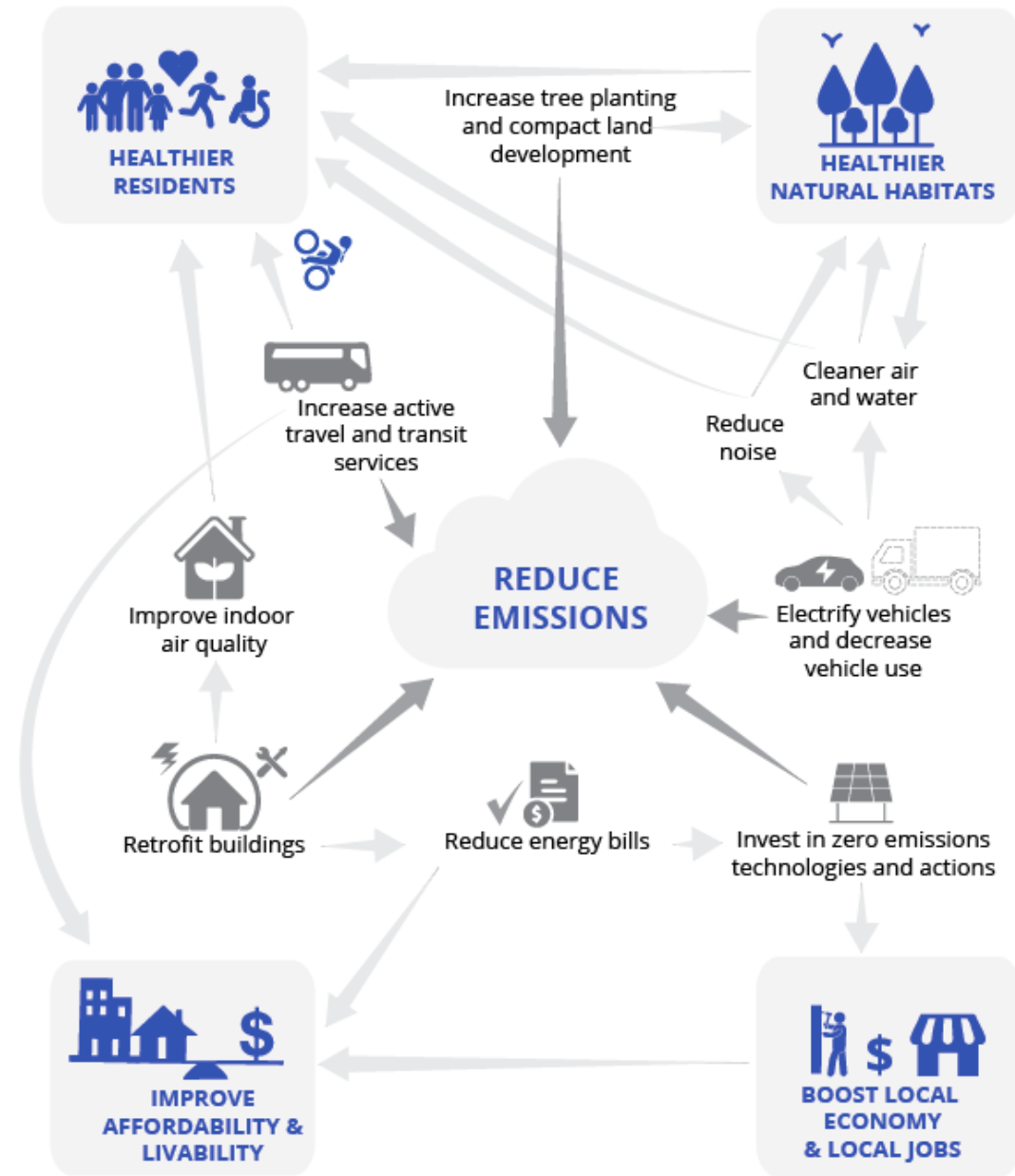
1. Corporate greenhouse gas emissions reduced by 65% over 2008 base year
2. All new City-owned buildings designed and constructed to Toronto Green Standard Version 4 starting in 2022
3. Existing City-owned buildings will reach net zero emissions by 2040, reducing emissions from 2008 by 60% by 2030
4. 50% of the City-owned fleet is transitioned to zero-emissions vehicles
5. 50% of the TTC bus fleet is zero-emissions
6. All City-owned facilities achieve zero waste
7. Renewable energy projects generate and utilize 1.5 Million Gigajoules of energy from biogas
8. Greenhouse gas emissions from food the City of Toronto procures are reduced by 25%

Dependencies

1. Action must begin now and must focus on equity
2. Actions and alignment needed from all levels of government
3. Carbon free electricity system
4. Labour market must shift and supply chains must be developed
5. Innovative and adaptive delivery mechanisms needed to scale up
6. Impacts on material and land resources need to be accounted for

Opportunities

- Co-benefits of climate action
- Existing technologies
- Labour market
- Financial savings
- Civic engagement





TransformTO: Critical Steps for Net Zero by 2040

Cecilia Fernandez, Acting Manager
Policy & Research, Environment & Energy Division

Small Engine Lawn & Garden Equipment

Attachment F responds to City Council request ([2020.IE15.8](#))

Report on the environmental and associated health impacts of gasoline-powered, two-stroke engine leaf blowers and other similarly operated garden equipment, including the feasibility of a year-round ban or a ban from May to September

Regulation

Federal Government regulates air emissions from lawn and garden equipment through the Off-Road Small Spark-Ignition Engine Emission Regulations

Toronto's Noise By-law was reviewed in 2019 ([2019.EC3.6](#)). As a result, Council further restricted the use of power devices, such as leaf blowers, by two hours.

Toronto Public Health concludes the noise, dust & air pollution from leaf blowers are a nuisance not public health harm the Health Protection & Promotion Act would address.

Next steps:

In light of the state of California's new legislation, the City will advocate to the Government of Canada to consider amending the regulations to support the transition to lawn and garden equipment with zero GHG and air pollutant emissions

MLS will address City Council's request ([2020.IE15.8](#)) about the noise impacts of leaf blowers next year as part of its noise update report

PF&R, Transportation Services and Fleet Services will address IEC's request ([2021.IE25.21](#)) to report back in Q1 2022 with a transition plan and feasibility assessment of phasing out gas-powered leaf blowers for municipal use by 2025.

Climate Action During a Pandemic

