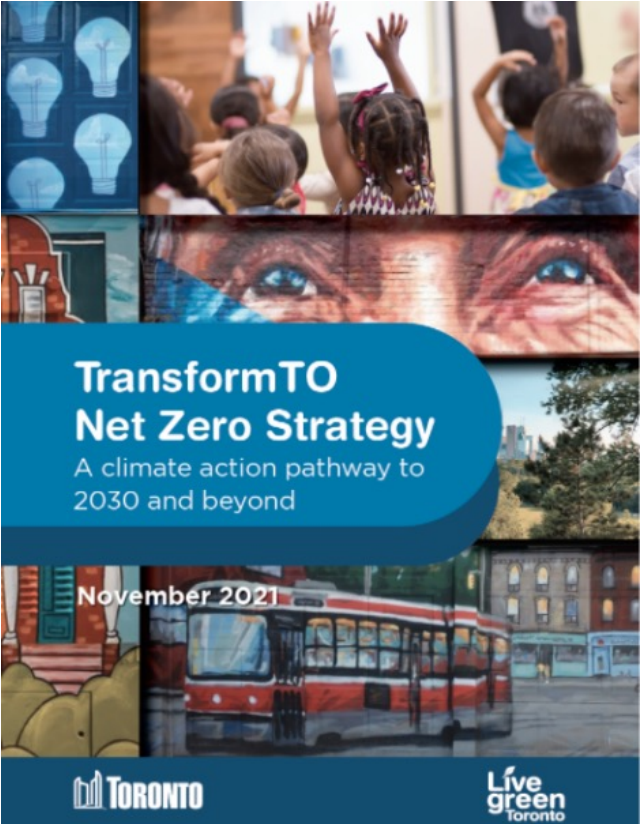




TransformTO Net Zero Strategy

TransformTO Net Zero Strategy

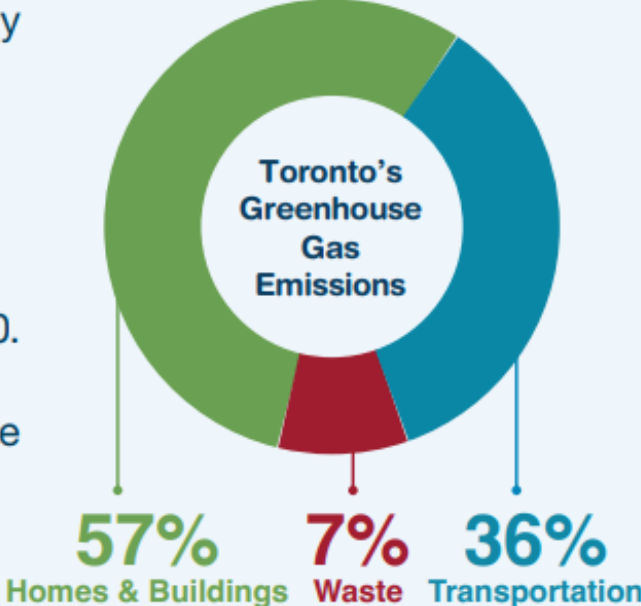


GETTING TO NET ZERO BY 2040

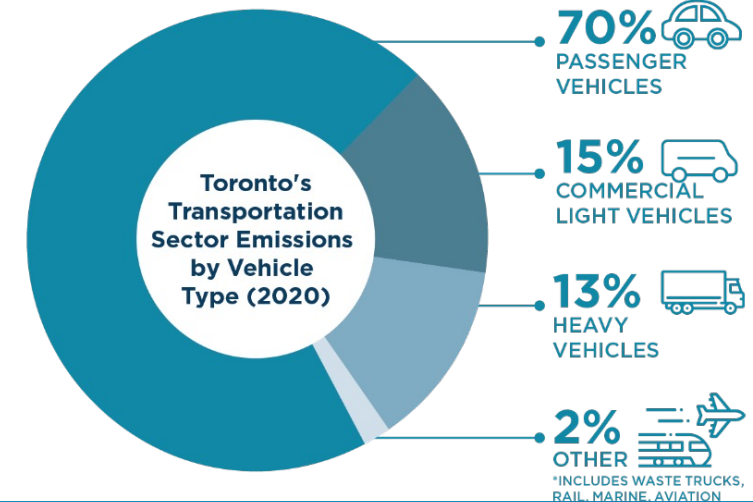
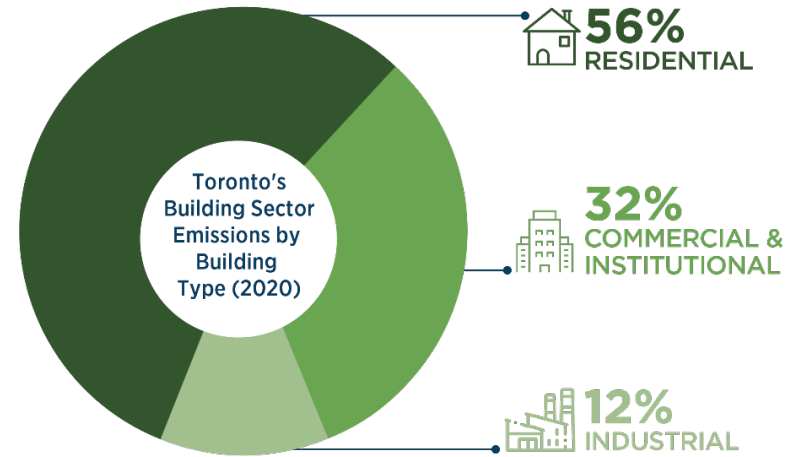
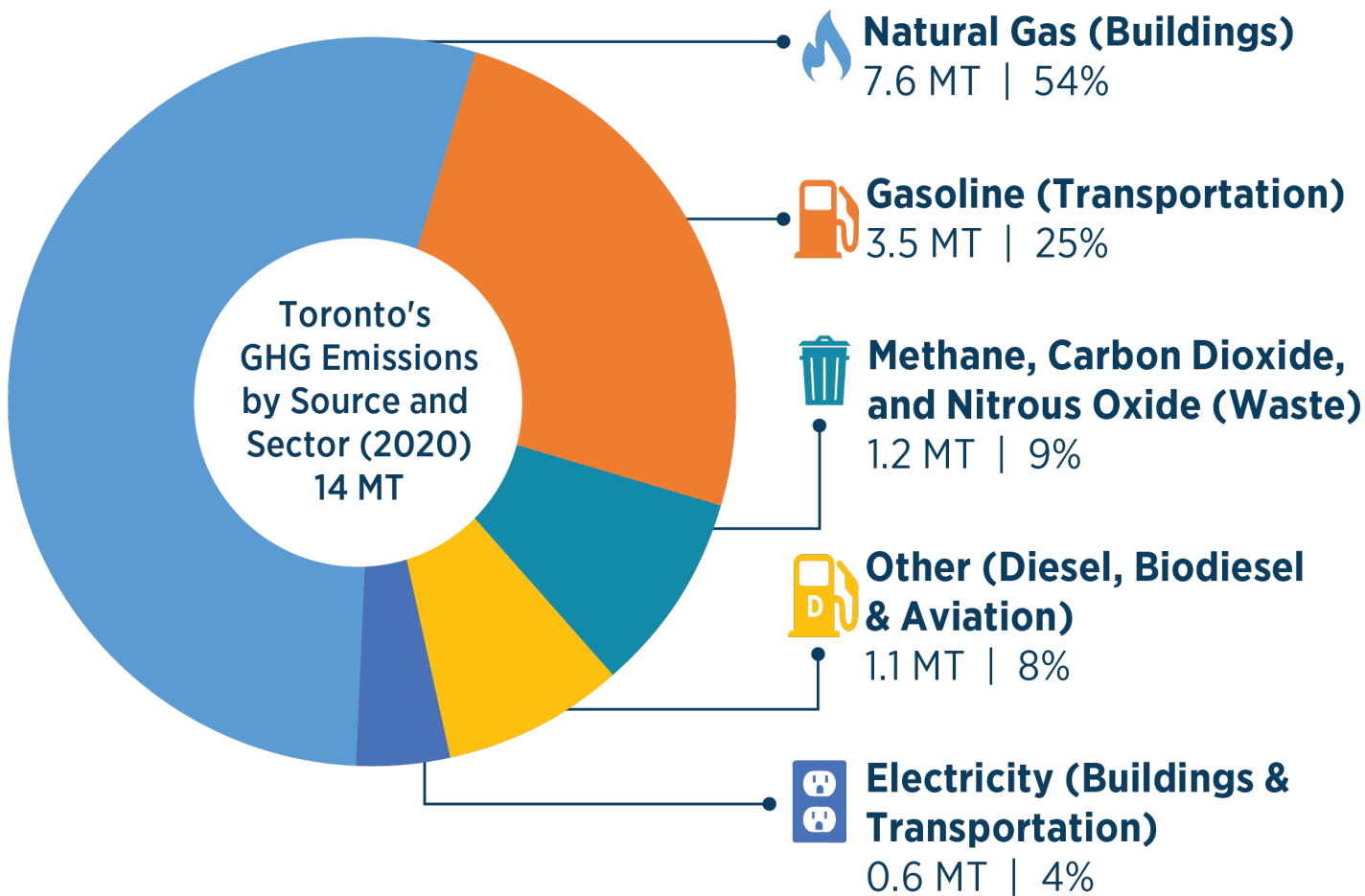
The City's TransformTO Net Zero Strategy has set Toronto on a path to reduce community-wide greenhouse gas emissions to net zero by 2040.

To meet that target, we must cut community-wide emissions in half by 2030.

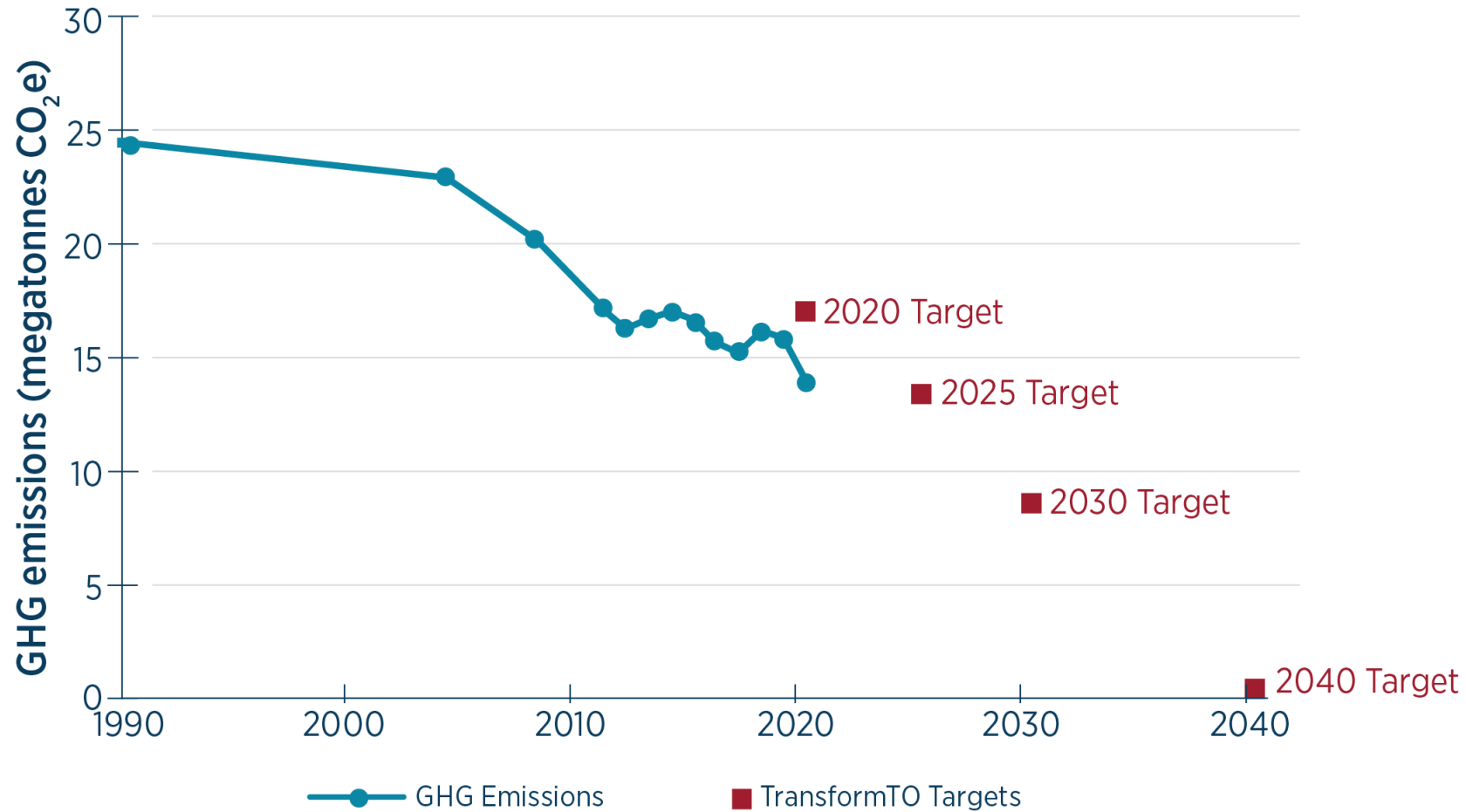
Homes and buildings and vehicles are the largest sources of emissions in Toronto today, generated primarily from the burning of fossil fuels.



Where Toronto's Emissions Come From



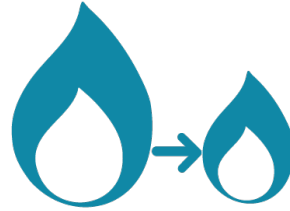
Toronto's GHG Emissions, Targets & Net Zero Pathway



Five Critical Steps



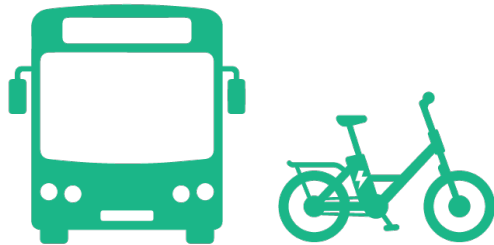
**Carbon accountability
through carbon budgets**



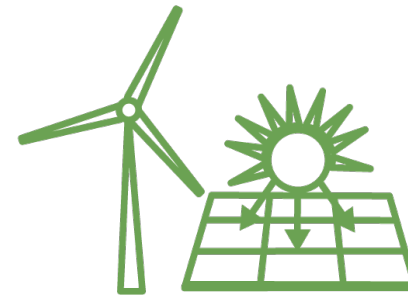
**Accelerate significant
reduction of natural gas**



**Establish building
performance targets**




**Increase low carbon
transportation options**

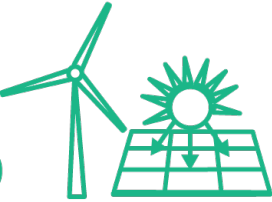



**Increase local renewable
energy & storage**


TransformTO 2030 Goals


100% 
of new buildings are designed
to net zero GHG emissions

50% 
decrease in emissions from
existing buildings (from 2008 levels)

50% 
of energy comes from
renewable or low-carbon sources

25% 
of commercial/industrial floor area
uses low-carbon thermal energy

30% 
of registered vehicles
in Toronto are electric

75% 
of school/work trips under 5km
are walked, biked or by transit

70% 
of City of Toronto
residential waste is diverted

Dependencies



ACTION MUST BEGIN NOW AND MUST FOCUS ON EQUITY

A focus on equity in design and delivery will maximize participation of all Toronto residents so that benefits can be realized sooner and last longer.



ACTIONS AND ALIGNMENT NEEDED FROM ALL LEVELS OF GOVERNMENT

Provincial and federal policy and resources are required to enable Toronto's ability to realize a net zero future. Aligned action will also amplify local efforts so that financial returns are realized sooner and GHG emissions reductions start earlier.



CARBON FREE ELECTRICITY SYSTEM

The emissions intensity of Ontario's electricity grid is projected to increase. For Toronto to get to net zero, the grid needs to be carbon free.



LABOUR MARKET MUST SHIFT AND SUPPLY CHAINS MUST BE DEVELOPED

The skills mix and capacity of the labour force will need to scale up and new robust supply chains for new technologies will need to be in place in order to deliver the actions required.



INNOVATIVE AND ADAPTIVE DELIVERY MECHANISMS NEEDED TO SCALE UP

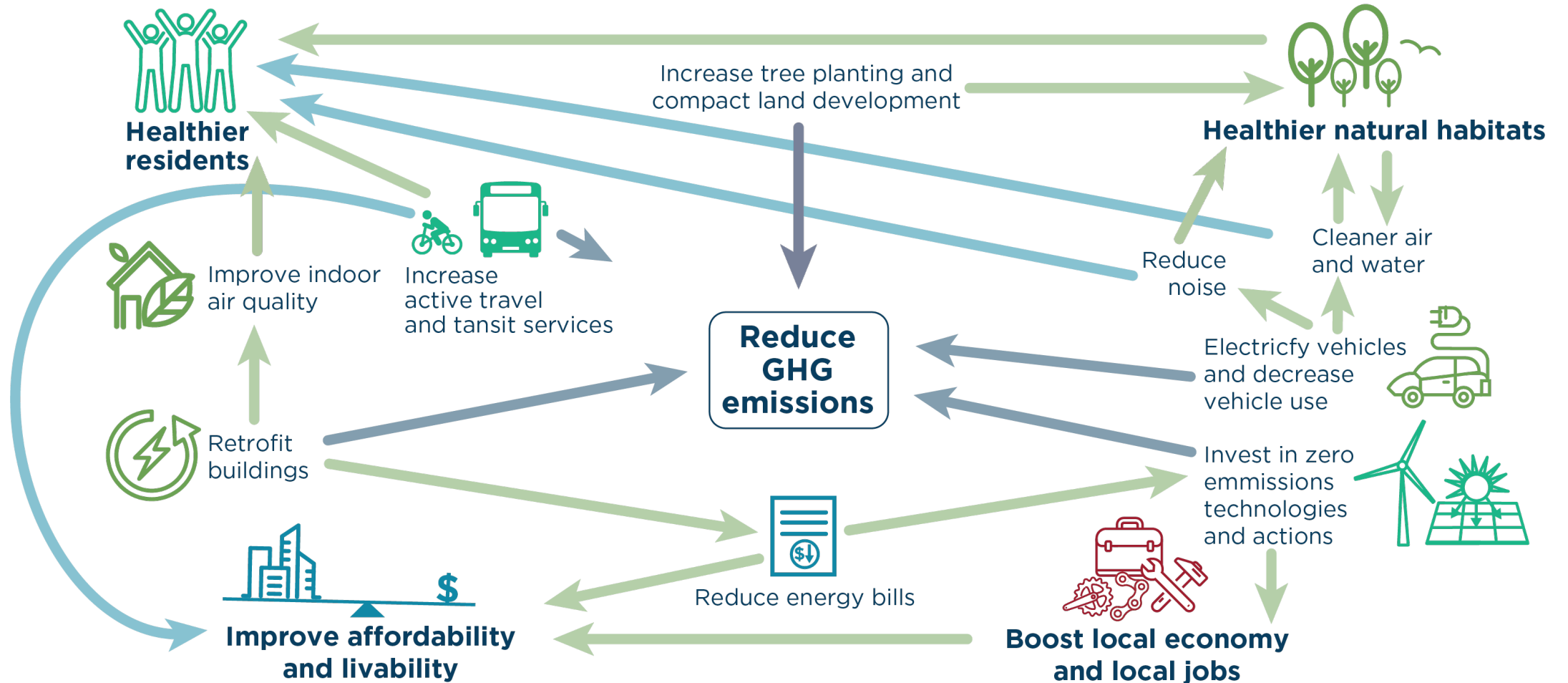
Conventional delivery mechanisms are likely too slow and costly to deliver the rapid transformation envisioned to achieve 2030 targets.



IMPACTS ON MATERIAL & LAND RESOURCES TO BE ACCOUNTED FOR

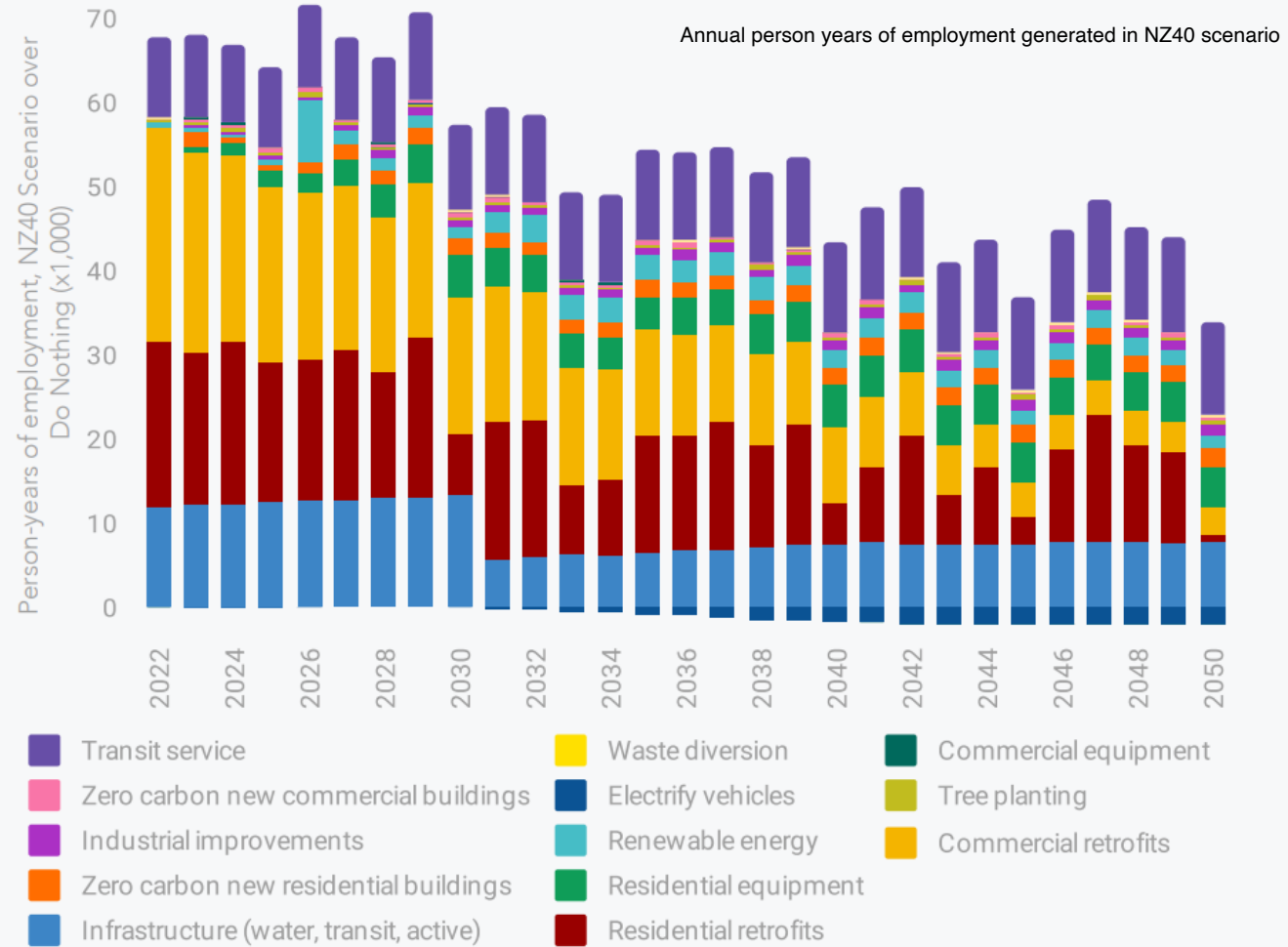
The environmental, social, and economic implications of resources required for transformation will need to be carefully considered to ensure this does not result in additional GHG emissions and negative impacts to the environment.

Opportunities



Opportunities – Employment & Economy

- 1.5 million added person-years of employment 2020-2050 = 40,000-60,000 jobs annually, mostly in retrofits and infrastructure
- Full investment \$145 billion 2020-2050
- Transition to low- or zero-carbon economy expected to impact on labour markets:
 - additional jobs will be created in emerging sectors
 - employment will be shifted (e.g., from fossil fuels to renewables)
 - certain jobs will be reduced or eliminated (e.g., combustion engine vehicle mechanics)
 - existing jobs will be transformed and redefined



Thank you



Call **3-1-1**



City of Toronto Corporate Goals

65% ↓

in corporate
GHG emissions,
from 2008 levels

100%

new City-owned
buildings designed and
constructed to TGS V4
starting in 2022



100%

existing City-
owned buildings
net zero by 2040



50%

of City-owned
fleet transitioned to
zero-emission vehicles



50%

of TTC bus fleet
zero-emissions



100%

of City-owned
facilities achieve
zero waste



1.5 MGJ

Renewable energy
projects generate and
utilize 1.5 Million
Gigajoules of energy
from biogas



25% ↓

in GHGs from
food procured by
City of Toronto

