



TransformTO

Re: PE19.4

Climate Action for a Healthy, Equitable and Prosperous Toronto

**Parks & Environment Committee
May 4, 2017**



Collaboration



TransformTO

Co-benefits

**Future
Modelling**

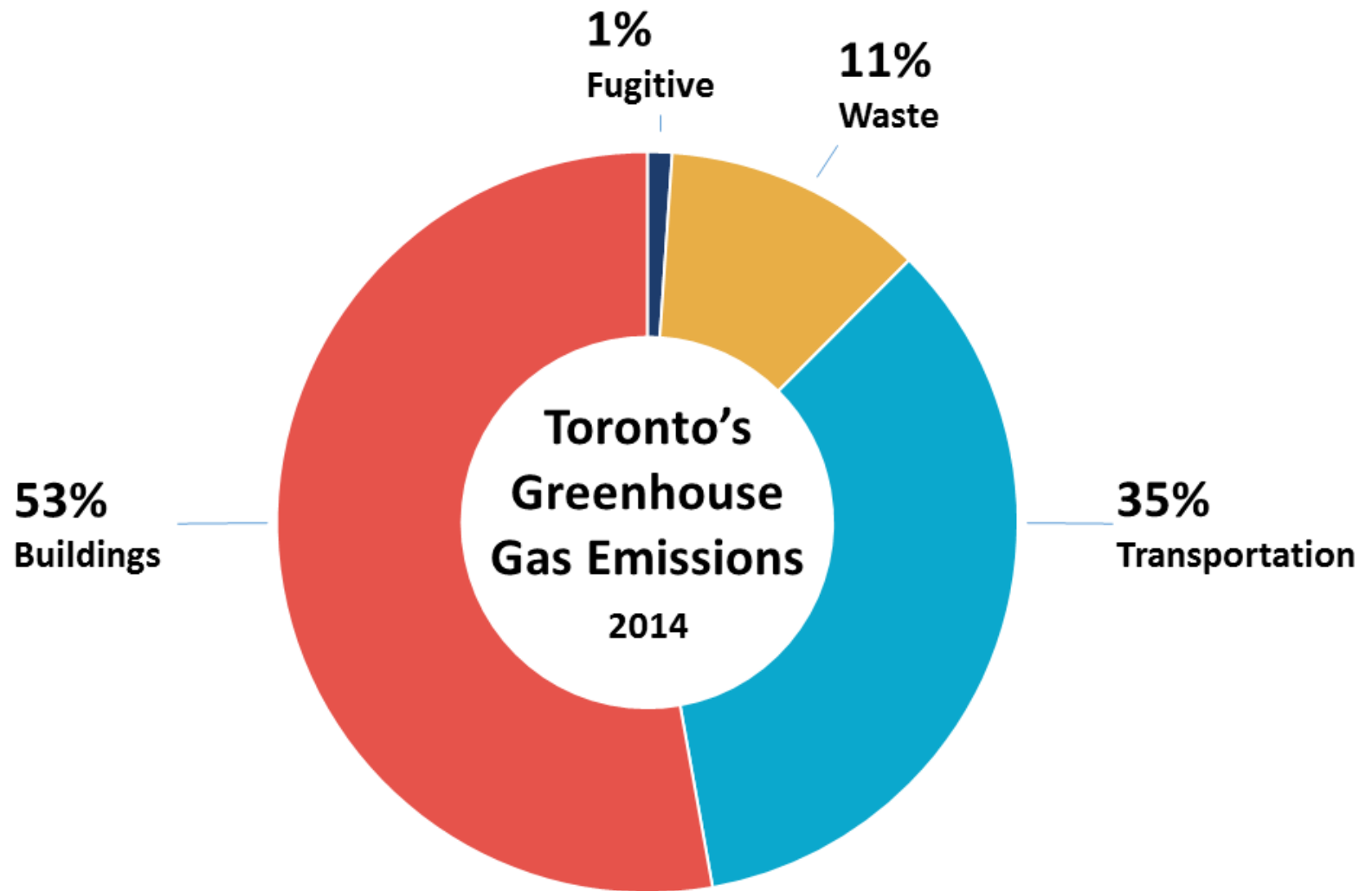
COLLABORATION IS CRITICAL TO SUCCESS

“Cities that collaborate with other actors are able to deliver twice as many climate actions.”

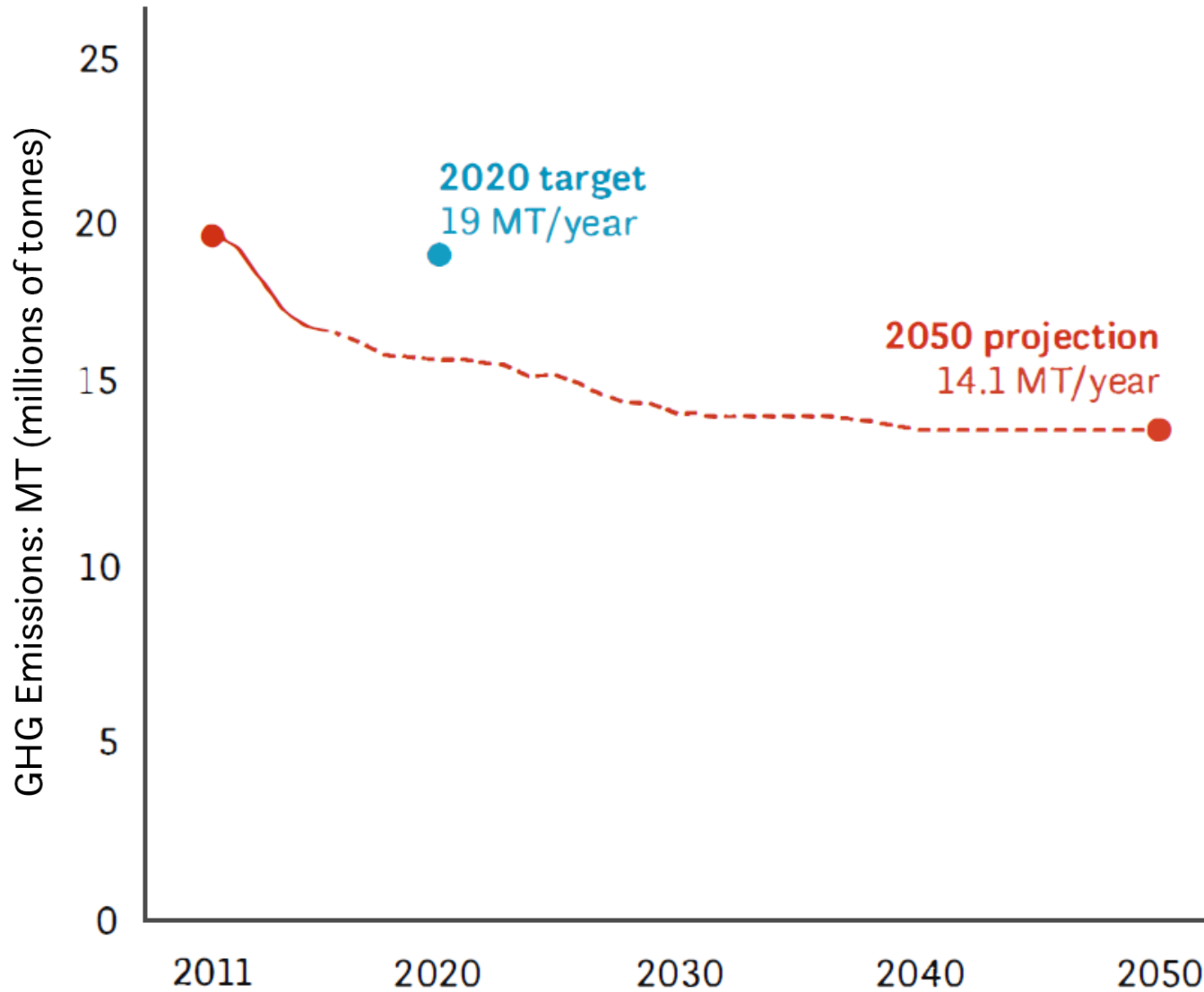
- C40 Cities/ARUP



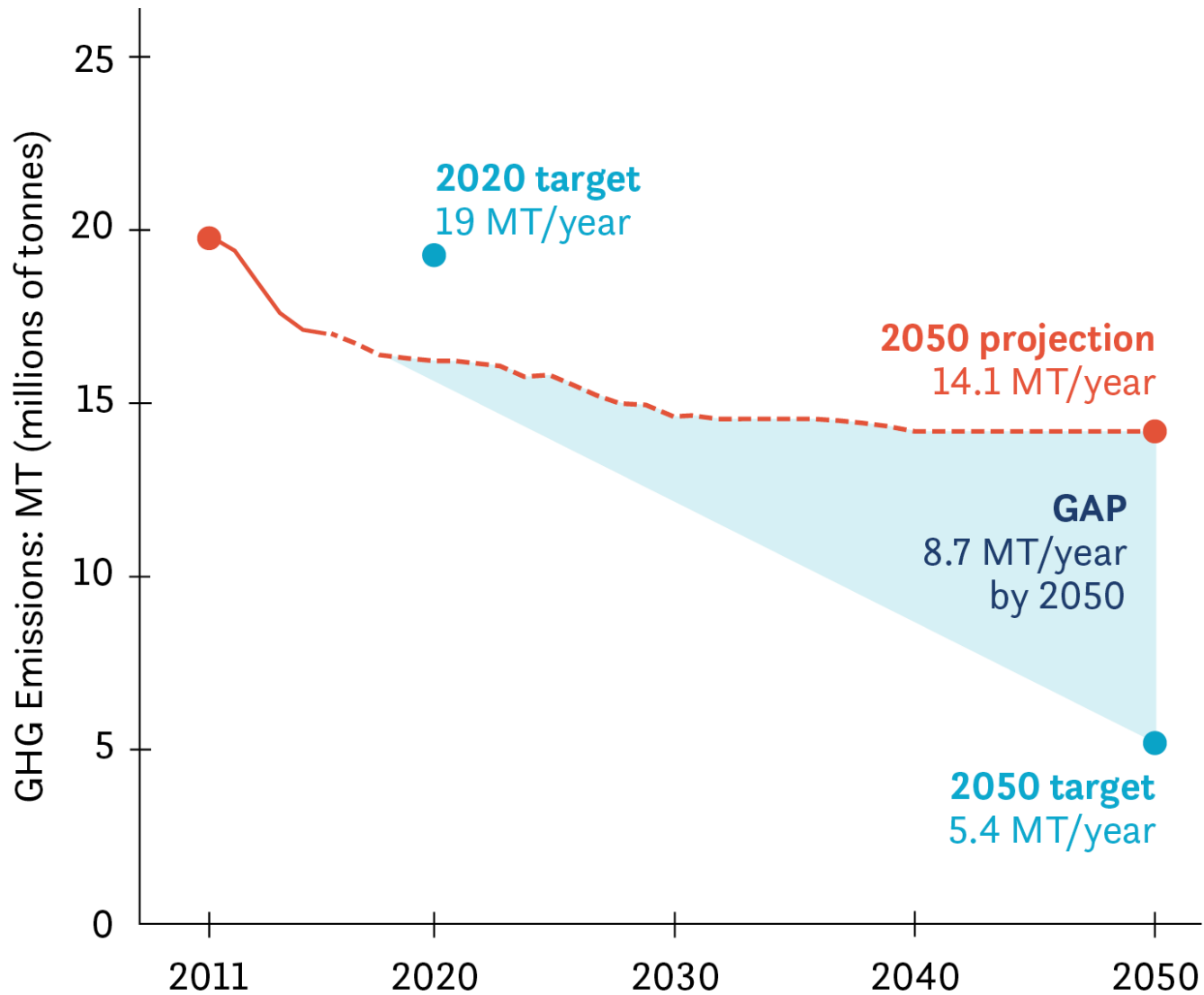
TORONTO'S EMISSIONS SOURCES



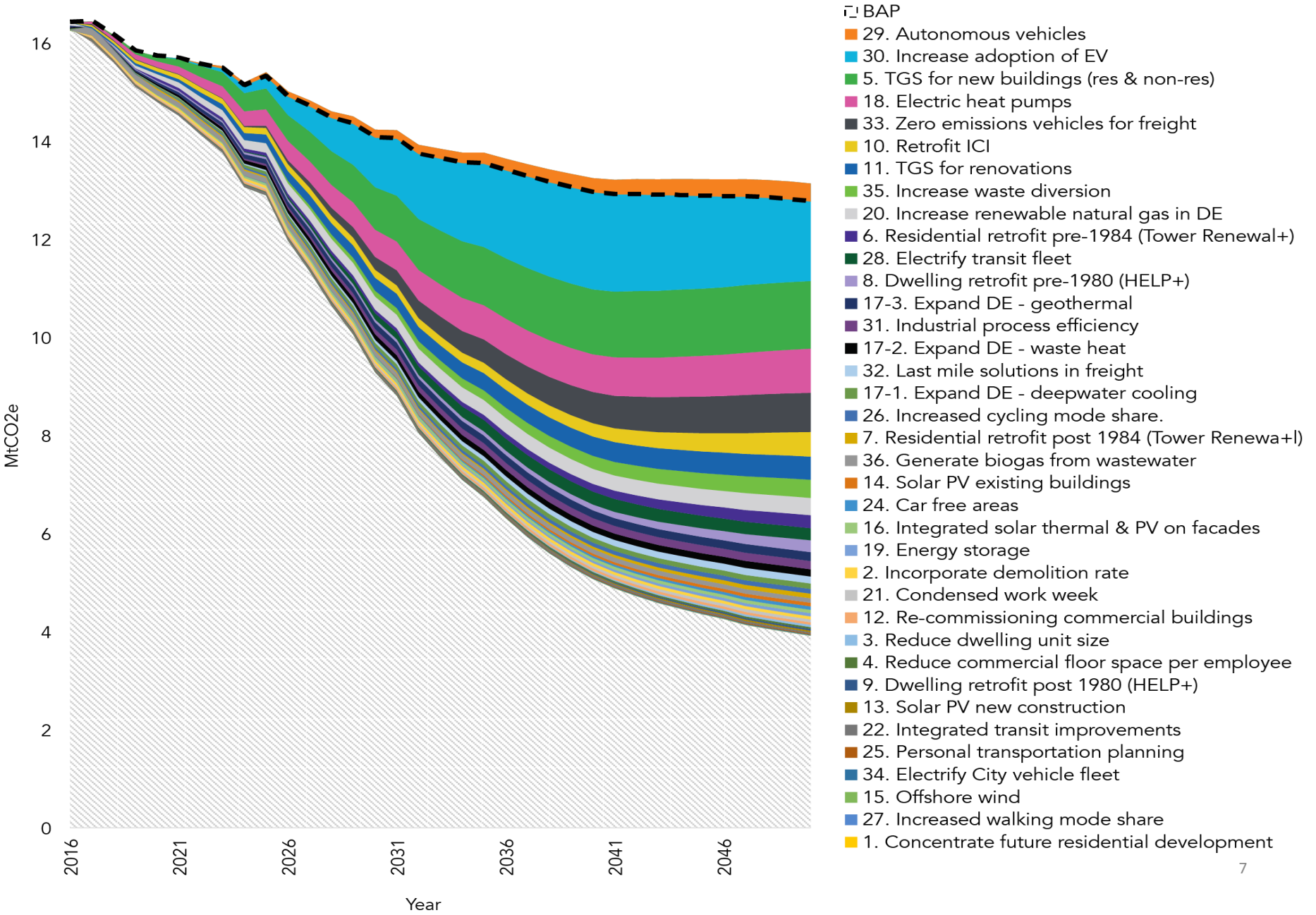
BUSINESS-AS-PLANNED WILL MISS TORONTO'S 2050 TARGET



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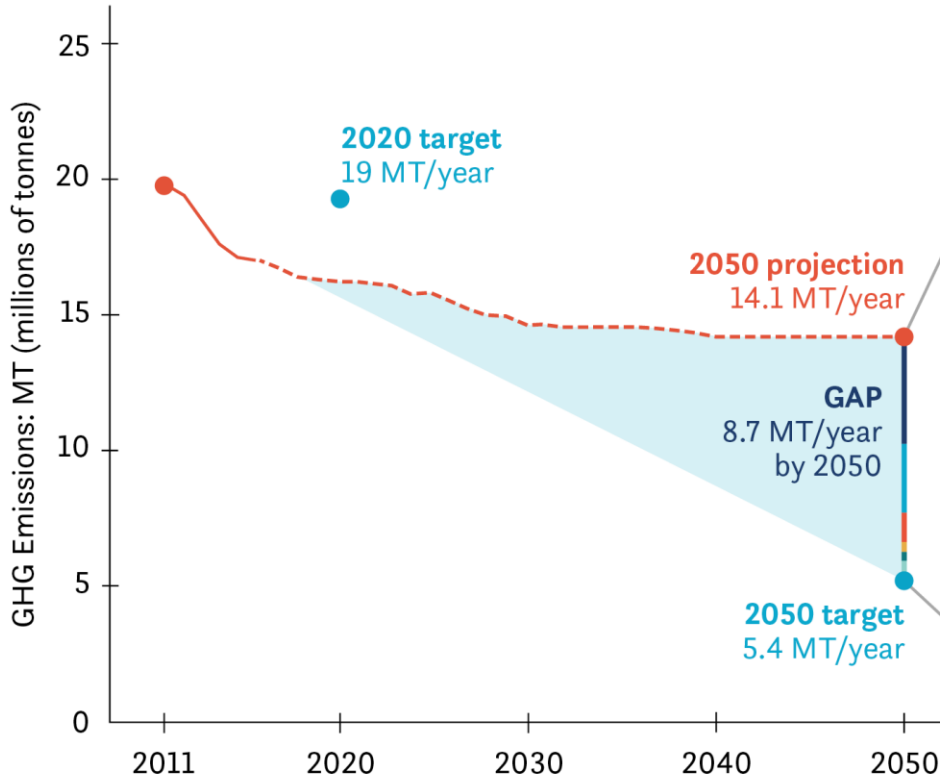


EMISSIONS RESULTING FROM THE ACTIONS MODELLED IN THE
CITY OF TORONTO INTEGRATED LOW CARBON SCENARIO, 2016 - 2050

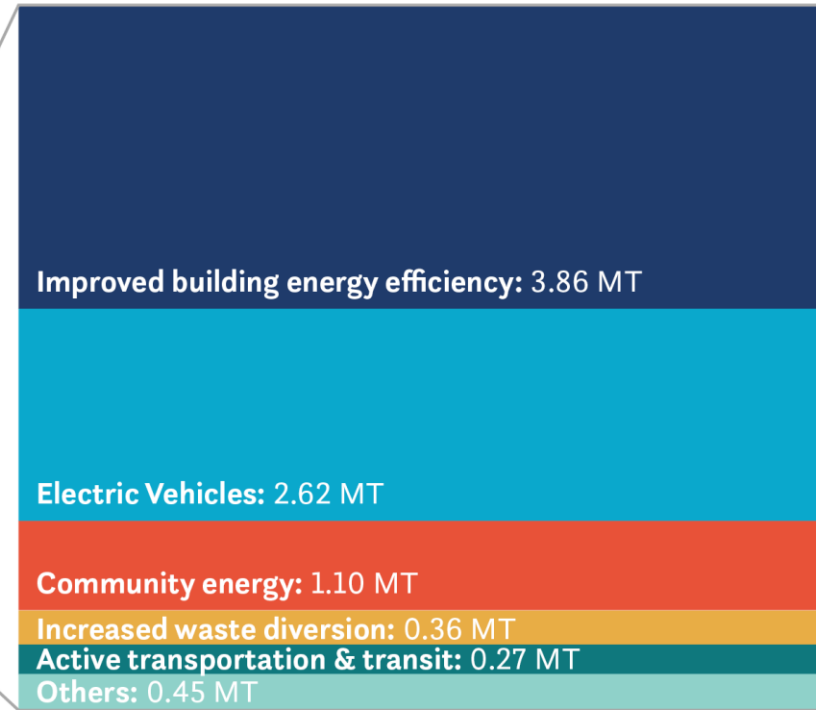


THE GOOD NEWS: WE CAN CLOSE THE GAP

Low-carbon actions can close the 8.7 MT gap



TransformTO Low-Carbon Scenario



LONG-TERM LOW-CARBON GOALS

65%

reduction in GHG emissions by 2030 as an interim target

100%

of new buildings are near zero GHG emissions by 2030

100%

of existing buildings are retrofitted by 2050

75%

of energy use from renewable or low-carbon sources by 2050

30%

of total floor space uses to low-carbon thermal energy by 2050

100%

of transportation uses low or zero-carbon energy by 2050

75%

of trips under 5 km city-wide walked or biked by 2050

95%

of waste is diverted in all sectors by 2050

ACCELERATED BUILDING PERFORMANCE

100% of new buildings are near zero GHG emissions by 2030

100% of existing buildings are retrofitted by 2050 where technically feasible



NEW ENERGY MIX

75% of energy use from renewable or low-carbon sources by 2050

30% of total floor space connected to low-carbon thermal energy by 2050



LOW-CARBON TRANSPORTATION

100% of transportation uses low or zero-carbon energy by 2050

75% of trips under 5 km city-wide walked or biked by 2050




WASTE DIVERSION

95% of waste is diverted in all sectors by 2050



LOW-CARBON CITY LEADERSHIP GOALS




All new City-owned facilities to be near zero greenhouse gas emissions by 2026



Retrofit all City-owned buildings where technically feasible by 2040



24 MW of renewable energy capacity on City-owned property by 2020



Transition 45% of City-owned fleet to low-carbon vehicles by 2030



Achieve net zero waste at all City-owned facilities by 2030



Generate 1.5 Gigajoules of energy annually from biogas by 2030



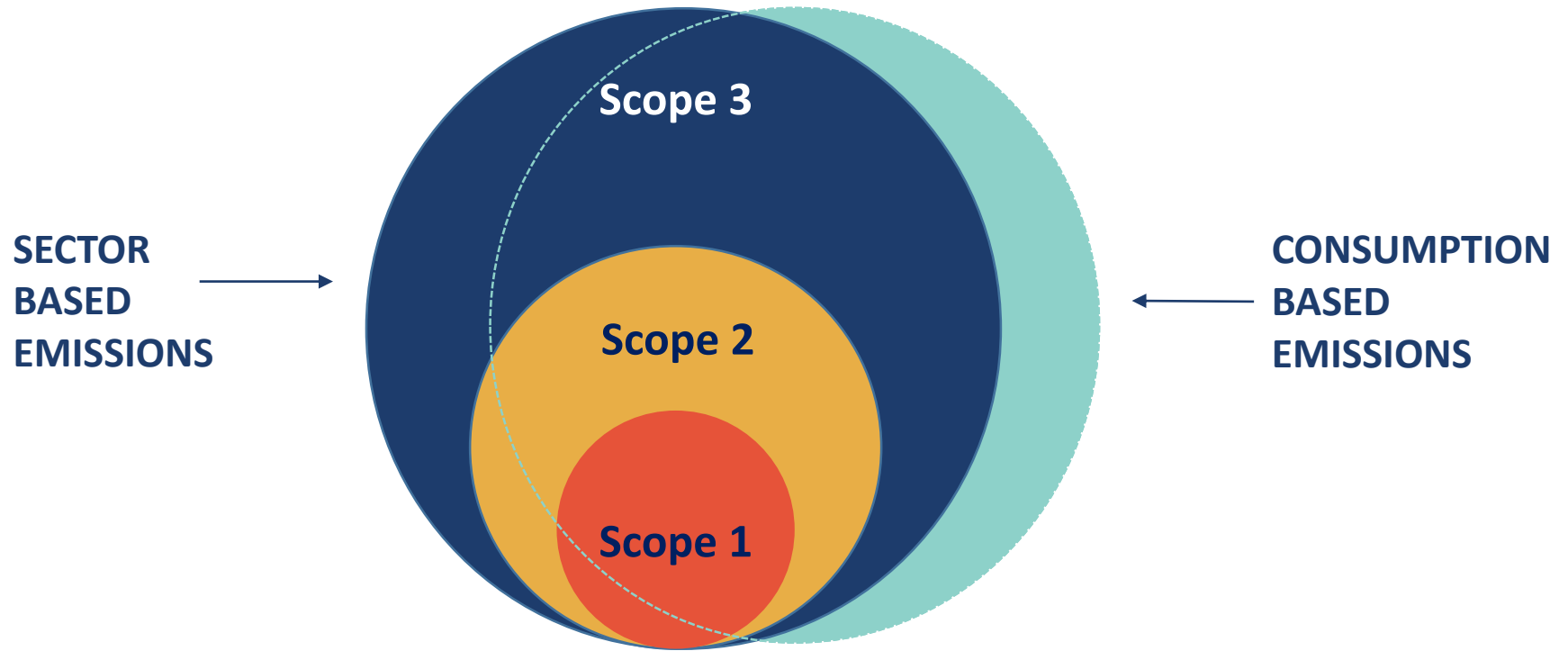
Become a Canada Top 100 Greenest Employer by 2020

GUIDING PRINCIPLES OF LOW-CARBON ACTION


- Advance **social equity**
- Improve **affordability** particularly for vulnerable populations
- Contribute to **poverty reduction** and protect low-income residents and Enhance and strengthen the **local economy**
- Maintain and create **good quality local jobs**
- Improve **public health**
- Create **resilient** communities and infrastructure



EXPLORING TORONTO'S CONSUMPTION GHG EMISSIONS



REPORTING AND IMPLEMENTATION PLANS



Every 2 years: update on TransformTO key performance indicators



Every new term of Council: Progress towards City of Toronto low-carbon leadership goals, and KPIs

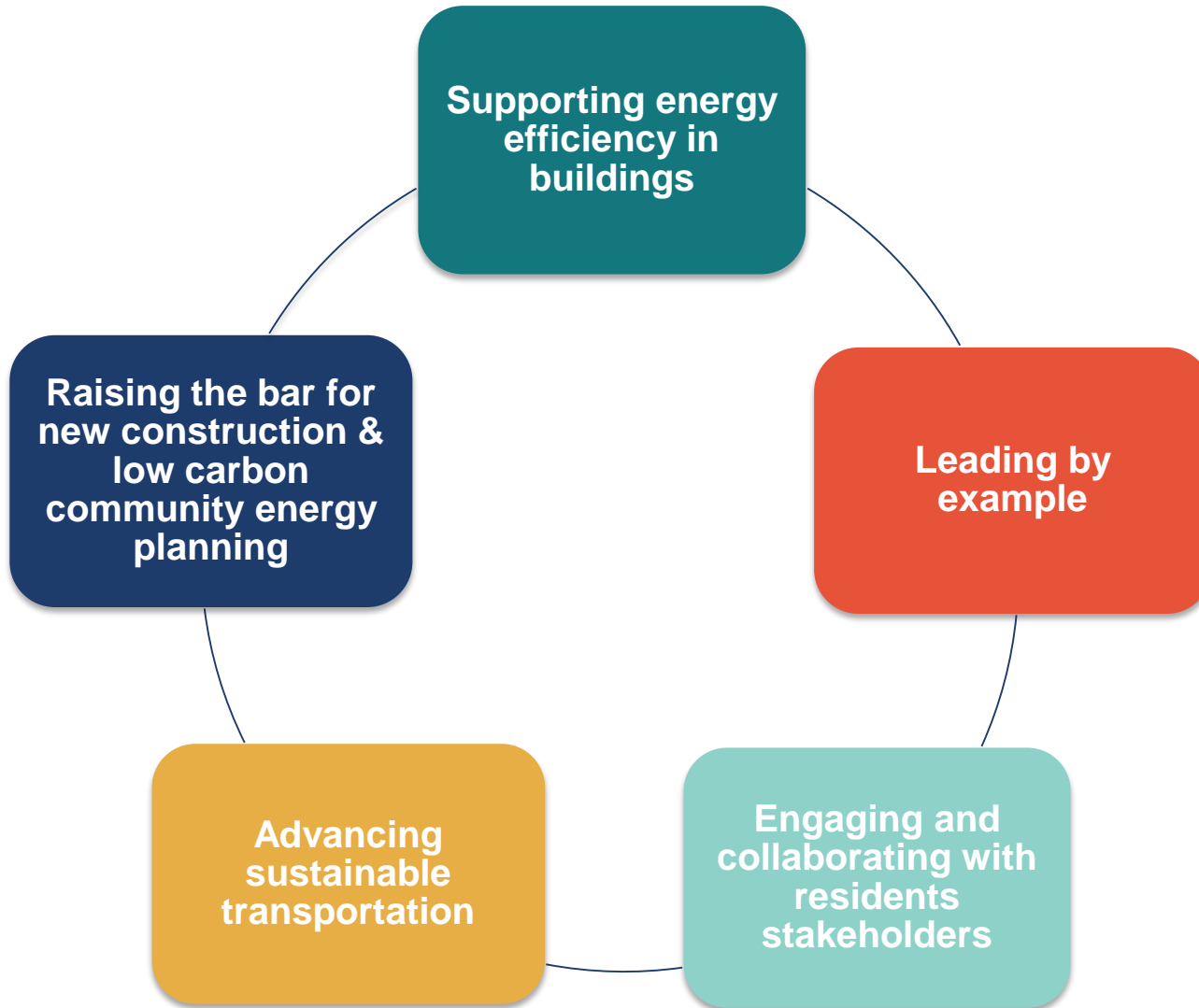


Every new term of Council: Revisions and additions to implementation plan for that term

LOW CARBON PATHWAY

1. Implement existing low-carbon policies, plans and programs
2. Pick up the pace by implementing the TransformTO Report #1 strategies approved in 2016
3. Start three acceleration campaigns that embrace a multi-benefits approach

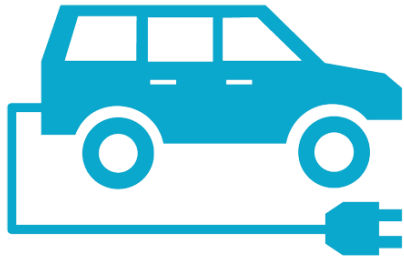
REPORT #1 STRATEGIES





1. Mobilize Low-Carbon Neighbourhoods

- Advance best practices in neighbourhood-based engagement;
- Cultivate local leaders who can support climate actions;
- Identify how TransformTO initiatives could improve affordability and support the City's poverty reduction and social development strategies;
- Explore how neighbourhood-scale TransformTO initiatives could enhance community resilience;
- Take action with 3 to 5 quick start projects.



2. Prepare for Electric Mobility

- Co-develop an electric vehicle (EV) transition strategy for Toronto;
- Develop an electric vehicle charging infrastructure strategy;
- Identify best practices in EV preparedness to ensure equitable outcomes for all residents;
- Prioritize EV approaches that maximize community benefit;
- Launch quick start projects to test implications of EV use for local grid;
- Explore how EVs could enhance community resilience.



3. Develop the Workforce for High-Performance Buildings

- Create an existing buildings energy performance strategy;
- Identify priority approaches to drive community benefits, including an early focus social housing renewal;
- Co-develop a workforce strategy to support high-performance buildings and create opportunities for people who face barriers to employment;
- Improve resilience of building stock

CONCLUSION

1

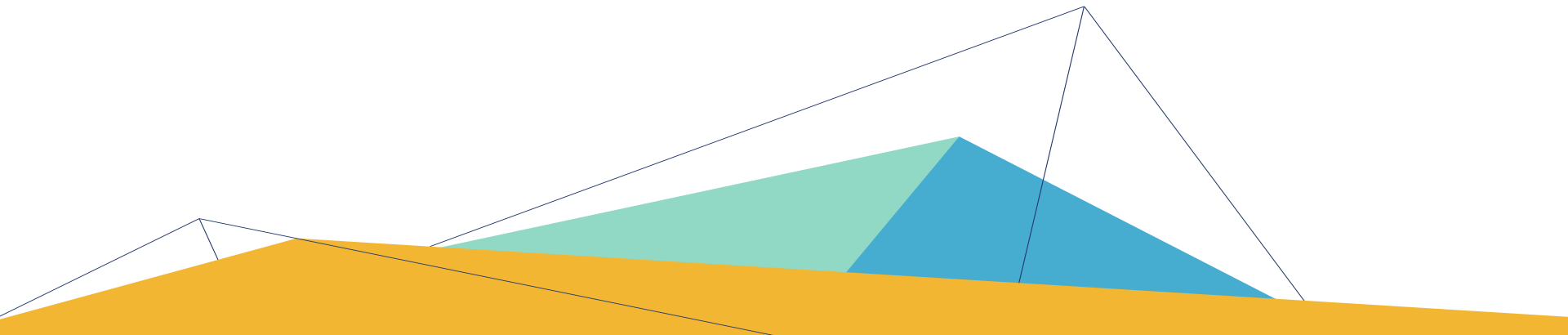
Implementing planned actions

2

Starting work immediately on approved Report 1 short-term strategies.

3

Investing in three acceleration campaigns while providing a wide range of community benefits.



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