

Pathway to a Low Carbon Future

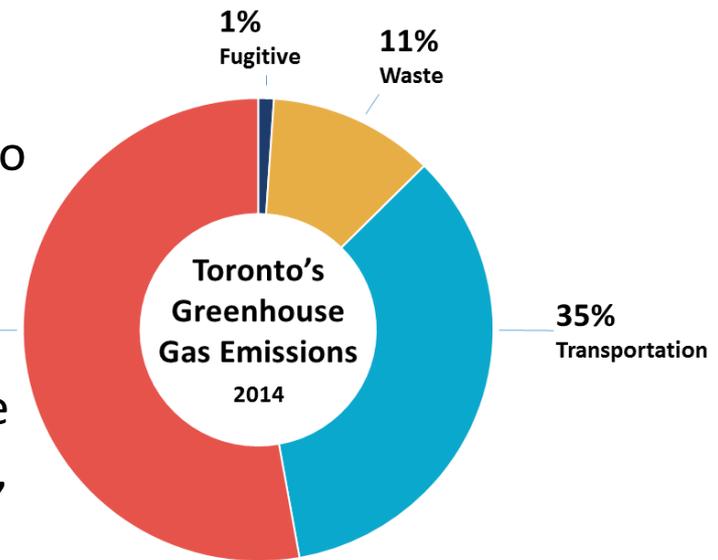
TransformTO

PG 23.9 Toronto Green Standard Update

**PG 23.10 Response to Ontario
Building Code Consultation**

In July 2017, City Council set the following goals

- 1) 100% of new buildings are designed and built to be near zero greenhouse gas (GHG) emissions **by 2030.**
- 2) 100% of existing buildings are retrofitted to the highest emission reduction technically feasible, on average achieving a 40% energy performance improvement over 2017 levels, while limiting affordability impacts to residents, by 2050.
- 3) Design and build all new City-owned facilities to be near zero GHG emissions **by 2026.**



Toronto Green Standard Version 3



SUSTAINABILITY REQUIREMENTS FOR
NEW DEVELOPMENT IN TORONTO

Toronto Green Standard Overview

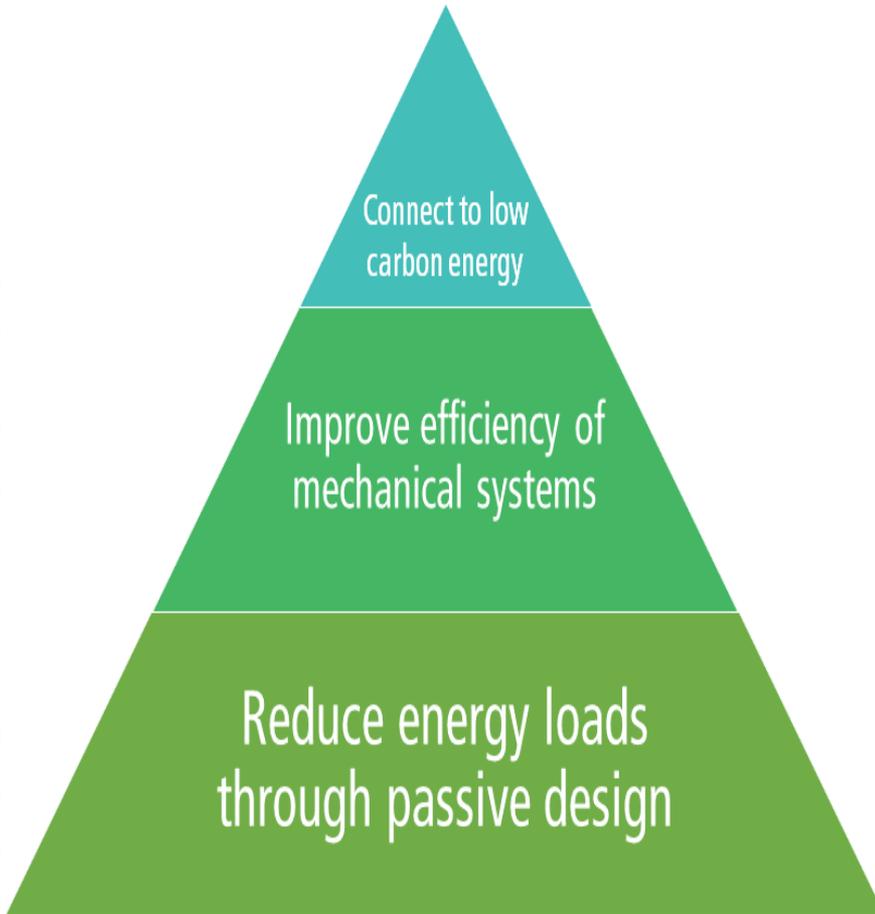


Since 2010:

- 1300 developments
- 20 certified Tier 2 through DC refund program
- 63 performance measures
- Market transformation tool - raised bar for energy efficiency targets in OBC
- Partners: EED, TW, PFR, TS, SWMS



Zero Emissions Buildings Framework



- 2013 Council Direction to review Global Best Practices in Energy Policies
- Shift from reference building approach to absolute performance targets (TEUI, TEDI, GHI)
- New 4-Tier approach to get to near zero by 2030
- Aligns with provincial and national emerging codes

Toronto Green Standard Version 3



First certified Tier 2 development
Minto 775 King Street West

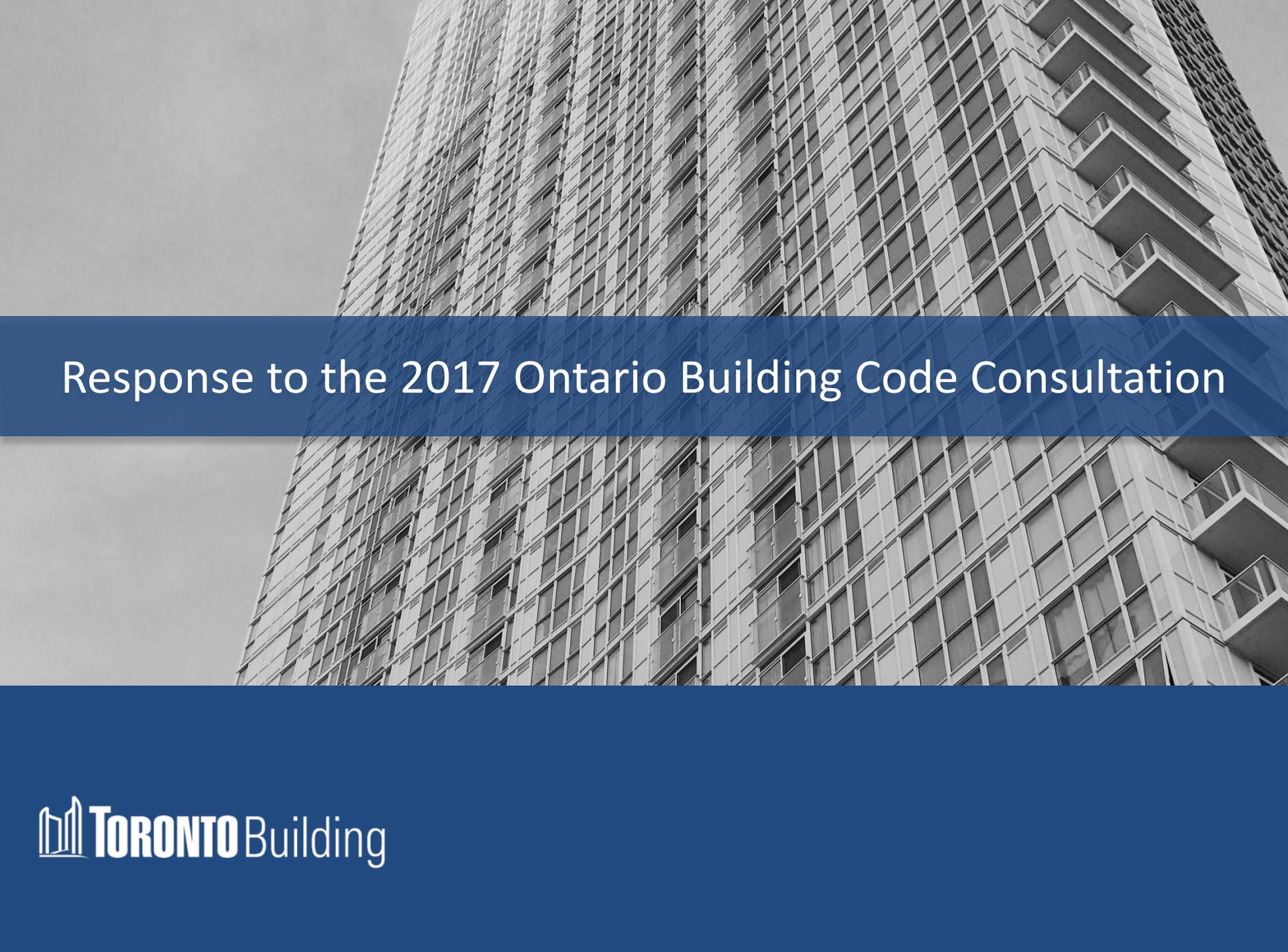
- **Tier 1** required through planning process
- **Tier 2** voluntary higher performance incented through DC refund.
- **New Tier 3:** energy, water, waste
- **New Tier 4** energy & GHG targets

Toronto Green Standard Version 3

City Leadership



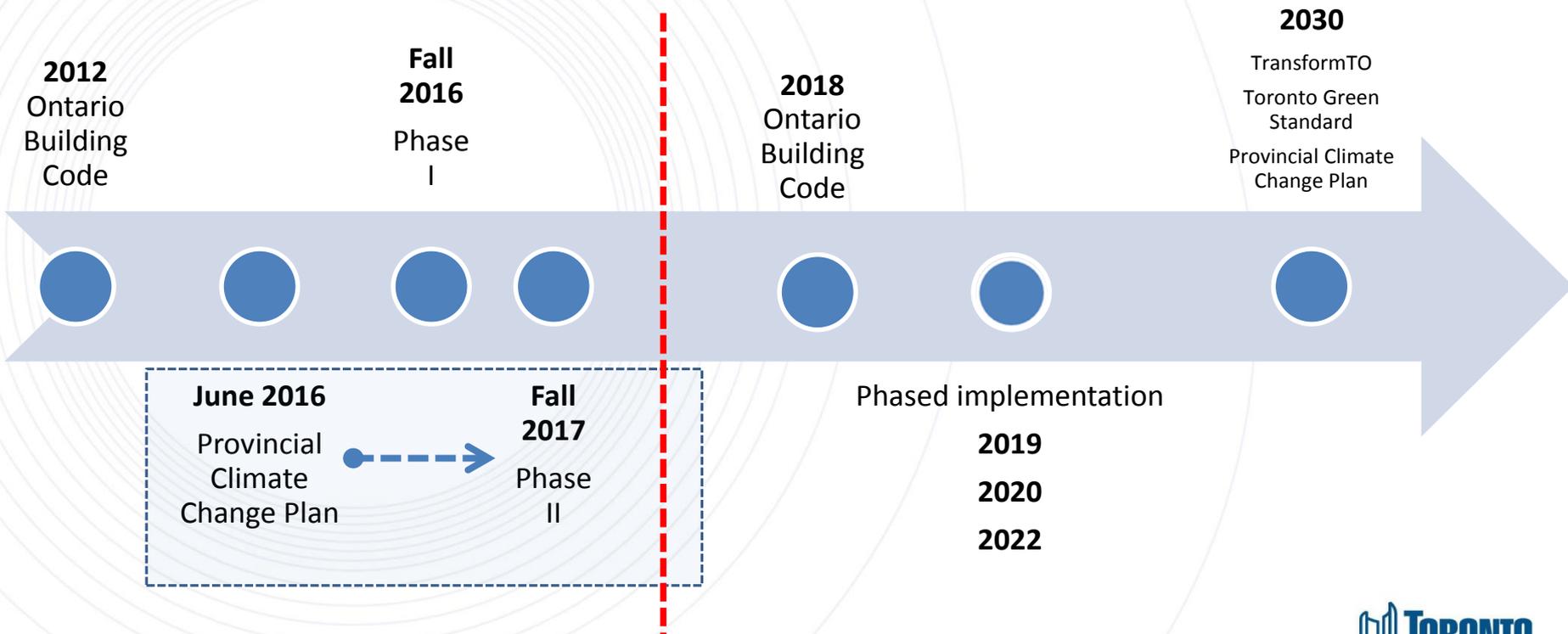
- Separate consolidated standard for Agencies, Corporations and Divisions
- Tier 2 for City ACD approved March 2017
- Includes Low carbon pathway



Response to the 2017 Ontario Building Code Consultation

Code Development Process

- Federal-Provincial framework for code development
- Province-wide technical requirements for construction, renovation, change of use and demolitions of buildings
- Municipalities cannot pass by-laws which conflict



Response to Province

- Toronto Building co-ordinated interdivisional comments on proposed technical changes
- Code changes reflect impact of City's actions on minimizing environmental impacts of buildings
- PGM report highlights key areas where Code changes can support City's strategies, including TransformTO

Key Recommendations

- Continue to expand the list of environmental measures in which the City can require voluntarily adopt, where there are technical requirements in the Code:
 - Recommended step code for increased energy efficiency
- Support increased requirements for energy efficiency in Renovation
 - Address issues of underground economy
- Undertake a review to better understand how future/projected climate and weather should be accounted for in future code updates.

Conclusion

- The Toronto Green Standard and the Ontario Building Code are key components of our ability to deliver TransformTO
- Helps the City of Toronto continue to be a leader in reducing the environmental impact of the building sector, driving market transformation and regulatory change