



For Action

City Council Transmittal – IE26.16 TransformTO – Critical Steps for Net Zero by 2040

Date: February 10, 2022
To: TTC Board
From: Director – Commission Services

Summary

City Council on December 15, 16 and 17, 2021, adopted the subject item and has forwarded a copy of City Council's decision to the Toronto Transit Commission Board for consideration.

Recommendations

It is recommended that the TTC Board:

1. Request that staff identify opportunities to accelerate the Green Bus Program and report back in the second quarter of 2022 on these opportunities.

Signature

Chrisanne Finnerty
Director – Commission Services

Attachments

Attachment 1 – City Council Decision – IE26.16 – TransformTO – Critical Steps for Net Zero by 2040

City Clerk's Office

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**In reply please quote:
Ref.: 21-IE26.16**

January 4, 2022

Ms. Chrisanne Finnerty
Director, Commission Services
Toronto Transit Commission
1900 Yonge Street
Toronto, Ontario M4S 1Z2

Dear Ms. Finnerty:

**Subject: Infrastructure and Environment Committee Item 26.16
TransformTO - Critical Steps for Net Zero by 2040 (Ward All)**

City Council on December 15, 16 and 17, 2021, adopted this Item as amended, and among other things has:

1. Requested the Toronto Transit Commission Board to identify opportunities to accelerate the Green Bus Program and to request the Chief Executive Officer, Toronto Transit Commission to report to the Toronto Transit Commission Board in the second quarter of 2022 on these opportunities.
2. Requested the City Manager, in consultation with the Chief Executive Officer, Toronto Transit Commission, to outline in the 2022 Budget proposal options to increase spending on surface vehicles and hiring additional operators aimed at increasing ridership to get us on the path to achieving the TransformTO goals.

Yours truly,



for City Clerk

M. Toft/wg

Attachment

c. City Manager

Sent to: Prime Minister of Canada
Premier, Province of Ontario
Minister of Municipal Affairs, Province of Ontario
Toronto Investment Board
President and Chief Executive Officer, Toronto Hydro Corporation
President and Chief Executive Officer, Toronto Community Housing Corporation
Director, Commission Services, Toronto Transit Commission
President, Toronto Parking Authority
Chief Executive Officer, Ontario Municipal Employees Retirement System

Infrastructure and Environment Committee

IE26.16		Amended		Ward: All
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TransformTO - Critical Steps for Net Zero by 2040

City Council Decision

City Council on December 15, 16 and 17, 2021, adopted the following:

1. City Council endorse the targets and actions outlined in Attachment B to the report (December 2, 2021) from the Interim Director, Environment and Energy, titled "TransformTO Net Zero Strategy" with the following additional instructions:
 - a. direct the Chief Planner and Executive Director, City Planning, to accelerate implementation of the greenhouse gas emission limits performance measure in the Toronto Green Standard to ensure that buildings constructed in or after 2030 are near zero emissions, by revising the Toronto Green Standard Tier 1 mandatory performance measure as follows, to: the "High Performance" level (Toronto Green Standard Version 4 Tier 2) to apply in 2025; and the "Near Zero Emissions" level (Toronto Green Standard Version 4 Tier 3) to apply in 2028;
 - b. request the Director, Environment and Energy, in consultation with the Chief Planner and Executive Director, City Planning, to set goals to limit new natural gas expansion, and sunset the sale of new natural gas fired equipment and report back in 2023 with actions to be implemented to support this endeavour;
 - c. request the Government of Ontario and provincial agencies and corporations to set a sunset date before 2030 for the sale and installation of new natural gas fired equipment to consumers;
 - d. continue to support Transportation Service's plan to accelerate the capital budget schedule for redesign of roadways as part of the Cycling Network Plan;
 - e. continue to ensure that, when considering any changes to the Investment Policy, the Chief Financial Officer and Treasurer and the Toronto Investment Board consider and incorporate internationally-recognized best practices for Environmental, Social and Governance;
 - f. continue to ensure that as of 2023, any new equipment being installed in a City facility must contribute to net zero and all new buildings be designed and built to net zero;
 - g. support resident-led climate action and engagement by dedicating resources to supporting community hubs, community centres, neighbourhood pods and other local support networks, as key social and physical infrastructure for strengthening community climate engagement and resilience;

h. direct the Director, Environment and Energy to centre the voices of equity-deserving groups, including youth, civil society organizations, labour and workers' rights organizations, academia, Indigenous rights holders and urban Indigenous communities by:

1. establishing a Climate Advisory Group that centres the voices of equity-deserving groups, and includes youth, civil society organizations, labour and workers' rights organizations, and academia and work with Indigenous rights holders and urban Indigenous communities to share knowledge and learnings to inform climate action and reporting back to City Council on a terms of reference developed by city staff and the Climate Advisory Group; and

2. reporting back on the feasibility of creating a Climate Change Corps to support the goals and objectives of the Transform TO Net Zero Strategy;

i. direct the Executive Director, Corporate Real Estate Management to share Corporate Real Estate Management's Net Zero Carbon Plan with the Board of the Toronto Community Housing Corporation and work in partnership with Toronto Community Housing Corporation to achieve targets and goals laid out in the plan; and

j. request the Toronto Transit Commission Board to identify opportunities to accelerate the Green Bus Program and to request the Chief Executive Officer, Toronto Transit Commission to report to the Toronto Transit Commission Board in the second quarter of 2022 on these opportunities.

2. City Council approve the following community-wide greenhouse gas reduction targets:

- a. 45 percent reduction in community-wide greenhouse gas emissions by 2025, from 1990 levels; and

- b. net zero greenhouse gas emissions by 2040.

3. City Council direct the Director, Environment and Energy to report back:

- a. in the second quarter of 2025, with a status update on progress in meeting the City of Toronto's 2030 corporate and community-wide greenhouse gas reduction targets, as outlined in Part 2 above and Attachment B to the report (December 2, 2021) from the Interim Director, Environment and Energy, titled "TransformTO Net Zero Strategy";

- b. in the second quarter of 2025, with a four year implementation plan for 2026-2030 on any additional actions and authorities required to achieve the City of Toronto's 2030 greenhouse gas reduction target; and

- c. annually on emission reductions achieved for community-wide greenhouse gas reduction targets, and the 2025, and 2030 goal.

4. City Council direct the City Manager, in consultation with all appropriate City divisions heads, including the City Solicitor, or their designates, to develop and implement a plan that outlines how to refer to TransformTO Net Zero Strategy goals and targets as and where appropriate in all relevant:

- a. submissions that the City of Toronto makes or the City of Toronto staff make in federal and provincial public comment processes; and

b. filings that the City of Toronto makes in proceedings before Federal and Provincial regulatory bodies, administrative tribunals and courts.

5. City Council authorize the Deputy City Manager, Corporate Services, or their designate, until December 31, 2030, to negotiate and enter into agreements, as may be required, to support the implementation of the City Council-adopted recommendations presented in the TransformTO Net Zero Strategy, dated December 2, 2021 with non-profit, public, and private sector organizations to:

- a. collaborate on projects or initiatives;
- b. provide in-kind and / or financial support from the approved Environment and Energy Division budget on projects or initiatives; and/or
- c. receive funding,

on terms and conditions acceptable to the Deputy City Manager, Corporate Services, in consultation with the Director, Environment and Energy, and in a form satisfactory to the City Solicitor.

6. City Council request the Director, Environment and Energy, to report back in the second quarter of 2022, on the accountability and management framework for TransformTO and the Net Zero Strategy, including:

- a. the composition, meeting frequency and reporting framework for the Climate Advisory Group and Joint TransformTO Implementation Committee as well as any additional advisory bodies, working groups, climate change corps, and consultation tables;
- b. the reporting schedule to City Council; and
- c. any plans for external peer-review.

7. City Council direct the Director, Environment and Energy to consult with members of the construction and development industry to identify challenges and solutions to ensure we reach our goal of 100 percent of new buildings built to near zero emissions by 2030.

8. City Council authorize the Deputy City Managers to negotiate and enter into non-competitive agreements, including those with a value exceeding \$500,000 for which City Council approval would normally be required under City of Toronto Municipal Code Chapter 195 (Purchasing) with companies that have won Climate Champion status through the MaRS Discovery District's Mission from MaRS Climate Impact Challenge, on the following conditions:

- a. that the provision of goods or services from the company will assist the City to reduce greenhouse gas emissions and is aligned with the City's Net Zero Strategy;
- b. that any agreement is within the budget of the respective division within the Deputy City Manager's Service Area;
- c. that the agreement is on such terms and conditions satisfactory to the Deputy City Manager; and
- d. that the agreement is in a form satisfactory to the City Solicitor.

9. City Council direct that the Chief Procurement Officer report, as part of the annual Controller's report, on any non-competitive agreement that the Deputy City Managers enter into with companies that have won Climate Champion status through the MaRS Discovery District's Mission from MaRS Climate Impact Challenge.

10. City Council authorize the City Solicitor, in consultation with the City Clerk, to submit a Bill to Council to codify the currently Council-adopted targets, strategies, policies, programs and initiatives pertaining to green energy and climate change, in the first instance from this report, as additional articles in Chapter 669 of the City of Toronto Municipal Code, as and where appropriate.

11. City Council direct the City Manager and Deputy City Managers, in consultation with the Director, Environment and Energy to report back by the first quarter of 2023 on:

- a. what aspects of existing City programs and / or by-laws aimed at reducing natural gas use in new and existing buildings need to be strengthened or accelerated; and
- b. what additional programs and / or by-laws aimed at reducing natural gas use in new and existing buildings need to be developed and implemented,

in order to achieve the greenhouse gas emission reduction targets as outlined in Part 2 above and Attachment B to the report (December 2, 2021) from the Interim Director, Environment and Energy, titled "TransformTO Net Zero Strategy".

12. City Council direct the Director, Environment and Energy, in consultation with the Controller, the Director, Accounting Services, the General Manager, Transportation Services, the Chief Planner and Executive Director, City Planning and other appropriate City Divisions, to prepare financial options and other incentives that the City could provide to encourage uptake of personal electric vehicles and disincentives to discourage use of fossil-fueled personal vehicles within the City of Toronto boundaries and report back through the 2023 budget where feasible and subsequent budget years if implementation in the 2023 budget is not feasible.

13. City Council direct the Director, Environment and Energy in consultation with the Controller, the Director, Accounting Services, the Chief Planner, and Executive Director, City Planning, the Chief Building Official and Executive Director, Toronto Buildings, and other appropriate City Divisions, and with Toronto Hydro, and to report back in the first quarter of 2023 on options for additional financial incentives, disincentives and other mechanisms to further encourage deep retrofits of existing buildings.

14. City Council direct the Director, Environment and Energy and the Chief Financial Officer and Treasurer to report back in the fourth quarter of 2022 on design and implementation options for a Toronto Carbon Budget and associated key performance metrics, which align with the City's financial budgets, to manage corporate and community greenhouse gas emissions, within an absolute limit that aligns with the City's 2025, 2030, and 2040 emissions reduction targets, and make clear the implications of the limits for the City's financial budgets, the 2024 budget cycle.

15. City Council request the Government of Ontario and Provincial agencies and corporations to:

- a. develop and implement new or amend existing legislation, regulations, policies and / or programs in order to prioritize:

1. demand response and conservation as sources of electricity generation in Independent Electricity System Operator generation selection; and

2. increase the share of renewable electricity generated on the provincial electricity grid;

b. implement legislation, regulations, policies/or programs to encourage the transition to electric vehicles, including:

1. financial incentives for new and used Electric Vehicles;

2. financial incentives for home, workplace and fleet Electric Vehicles charging infrastructure;

3. establish a provincial sales mandate for Zero Emission Vehicles ("Zero Emission Vehicles" are battery-electric vehicles, plug-in hybrid electric vehicles or hydrogen fuel cell vehicles) that meets or exceeds any federal sales mandate for Zero Emission Vehicles:

4. support and encourage Electric Vehicles-ready new construction;

5. funding for publicly-accessible Electric Vehicle charging infrastructure, including for bi-directional chargers;

6. maintain existing benefits for Electric Vehicle drivers (e.g. High Occupancy Vehicle lane access on provincial highways); and

7. add financial incentives for purchasing all bikes, e-bikes and other non-carbon vehicles that are approved for use on City of Toronto road ways and cycling infrastructure; and

c. require all new and replacement equipment for building heating systems to be greater than 100 per cent efficiency.

16. City Council request the Government of Canada and Federal agencies and corporations to:

- a. create and enforce a national clean electricity standard to ensure decarbonization of the electricity grid as soon as possible;

- b. ensure all new and replacement equipment for building heating systems be greater than 100 percent efficient as soon as possible;

- c. implement new and maintain existing financial incentives to encourage the transition to electric vehicles, including:

1. maintain purchase incentives for new electric vehicles and providing purchase incentives for used electric vehicles;

2. provide financial incentives for home, workplace and fleet electric vehicle charging infrastructure; and

3. provide funding to provinces and municipalities for public electric vehicle charging infrastructure, including for bi-directional chargers;

d. create and fund a national workforce and skills development strategy to enable a just net-zero transition;

e. conduct a strategic review of international and national supply chain requirements and issues to ensure that municipalities have sufficient access to all goods and services necessary to enable a transition to the net zero emission economy;

f. provide mechanisms and tools to lower the risk to lenders or similar entities involved with financing projects that enable decarbonization at scale; and

g. explore the creation of new crown corporations to manufacture and / or bulk purchase heat pumps, net zero hot water heaters, solar panels, renewable energy technologies, and electric vehicles.

17. City Council direct the Director, Environment and Energy, in coordination with Executive Director, Social Development, Finance and Administration and the Chief Procurement Officer, Purchasing and Materials Management, to identify ways that the City can support the reduction of the greenhouse gas emissions associated with food the City of Toronto procures, in alignment with the City's Cool Food Pledge and the C40 Good Food Cities Declaration, and to report back in the second quarter of 2023 on the status of corporate and community food-related emissions and recommended actions for the TransformTO 2026-2030 short-term action plan, including a goal to maximize local, organic and fair trade food procurement.

18. City Council direct the City Manager to explore methods of enhancing incentives and promotions for industrial/commercial enterprises for the purpose of manufacturing, installing, bulk purchasing, distributing and installing: heat pumps, hot water heaters, renewable energy technologies, district energy systems, and electric vehicles.

19. City Council request the Chief Planner and Executive Director, City Planning to continue to ensure the Official Plan, Zoning By-laws, and planning policies and various Planning guidelines support the recommendations in the Net Zero Strategy, including to discourage vehicle trips, enhance building energy efficiency, to reduce embedded carbon during construction, and to encourage active transportation and transit for short trips.

20. City Council express its support for a ban on use of two-stroke engine leaf blowers, lawnmowers and other small engine equipment and vehicles and request the Director, Municipal Licensing and Standards report back on the implementation of a ban as part of the noise update report in 2022.

21. City Council request the Deputy City Manager, Infrastructure and Development Services, in consultation with the General Manager, Transportation Services and the Chief Engineer and Executive Director, Engineering and Construction Services, to report back in first quarter 2023 with recommendations on the process and staffing changes required to have complete street designs considered for every major road rehabilitation project.

22. City Council use its considerable influence as an OMERS employer sponsor and seat on the OMERS' Administration Corporation, to request that OMERS considers the City of Toronto's Net Zero strategy in its investment decisions and climate commitments, with a goal of limiting the global average temperature increase to 1.5° Celsius, including a plan to phase out investments in coal, oil, gas and pipelines, and consider alternatives to new fossil fuel investments.

23. City Council request the Chief Planner and Executive Director, City Planning and the Chief Building Official to report back in 2022 on the feasibility of implementing emissions

performance standards or incentives for existing buildings using the City's existing authorities, for implementation in 2023 or specific recommendations for any regulatory or legislative changes needed to enable implementation of emissions performance standards and on use of the permit process to ensure or encourage existing building HVAC and hot water replacement with 100 percent efficient equipment by 2028 and all additions and renovations to meet higher energy efficiency standards.

24. City Council request the Ministry of Municipal Affairs and Housing to consider strengthening the requirements in the Ontario Building Code for increased energy efficiency improvements at the time of renovation.

25. City Council request the Director, Environment and Energy to develop a plan to provide financing support for low carbon thermal energy systems, potentially including the use of Local Improvement Charges or other financial mechanisms, as well as mandatory connections or connection ready and low temperature HVAC design guidelines and standards for new buildings and report back in 2023 with implementation in 2024.

26. City Council request the Interim Director, Environment and Energy to provide a clear definition of low carbon thermal energy sources in order to enable monitoring of progress against the target at their next annual report on the status of TransformTO.

27. City Council direct the Executive Director, Municipal Licensing and Standards to set a goal of Net Zero for 2030 for vehicles-for-hire, and to align the plans for vehicle electrification and emissions reduction to achieve this goal.

28. City Council request the Director, Environment and Energy, to assess the feasibility of updating the Electric Vehicle Strategy in Item 2020.IE11.17 headed "Electric Vehicle Strategy" to include a target of accommodating 100 percent Electric Vehicle adoption by 2035.

29. City Council request the President, Toronto Parking Authority, in consultation with the General Manager, Transportation Services, to report on the feasibility of providing charging stations and exclusive access for electric vehicles at on-street paid parking spots in high-demand areas.

30. City Council request the General Manager, Municipal Licensing and Standards, in consultation with the General Manager, Transportation Services, and the Director, Environment and Energy, to explore the feasibility of allowing accessible cable covers on sidewalks to facilitate overnight charging for individuals without front pad or garage parking.

31. City Council request the Director, Environment and Energy to include in a report to Infrastructure and Environment Committee on Electric Vehicles, information on the number of streets with permit parking which have Electric Vehicle chargers, and the number of streets with permit parking that do not have Electric Vehicle chargers.

32. City Council direct the Director, Environment and Energy to consult with local Councillors on optimal locations for installations.

33. City Council direct the Deputy City Manager, Corporate Services and the Deputy City Manager, Infrastructure and Development Services to include Electric Vehicle charging stations in the City supported Pocket Change project.

34. City Council direct the General Manager, Transportation Services to include Riverdale for next phase of Electric Vehicle charging stations.

35. City Council direct the City Manager to do market soundings on neighbourhoods with on street permit parking to determine where the highest demand is for those who would consider purchasing an Electric Vehicle if there was on street charging.

36. City Council direct the General Manager, Transportation Services to include options for dedicated Electric Vehicle charging stations on those streets that switch sides for parking.

37. City Council request the City Manager and the Director, Environment and Energy to strike a Joint TransformTO Implementation Committee with appropriate City Staff and trade unions representing workers employed by the City, including construction trades, to provide expert advice on implementation of the TransformTO goals for City operations and facilities, starting in 2022.

38. City Council request the City Manager, in consultation with the Chief Executive Officer, Toronto Transit Commission, to outline in the 2022 Budget proposal options to increase spending on surface vehicles and hiring additional operators aimed at increasing ridership to get us on the path to achieving the TransformTO goals.

39. City Council request the City Manager to include the recommendations and short term strategies as outlined in TransformTO Net Zero Strategy in the proposed 2022 Operating and Capital Budgets for all Divisions.

40. City Council request the Director, Environment and Energy to report to the Infrastructure and Environment Committee on the following:

a. what percentage of greenhouse gases in the City of Toronto is created by cars and trucks and vehicles in the City of Toronto;

b. on how the Idling By-law is currently enforced and the number of tickets that have been given out per year since 2015;

c. the time and nature of the most recent public education campaign on the Idling By-law that have been conducted since 2015;

d. the current steps undertaken by Corporate Services and other Agencies and Corporations to measure and reduce idling in the City fleet and how to discourage idling in other vehicles;

e. district energy plans and other successful district energy plans that the City is aware of;

f. the number of developments in the last two calendar years that have been approved that have Geothermal;

g. the ideal size for Geothermal application for a development – number of units or size of site;

h. an investigation of the green standards to include options for Geo thermal; and

i. all possible City operations or operations of Agencies and Corporations where significant energy capture and energy storage could take place.

City Council Decision Advice and Other Information

City Council considered Items EX28.1 and IE26.16 together.

Committee Recommendations

The Infrastructure and Environment Committee recommends that:

1. City Council endorse the targets and actions outlined in Attachment B to the report (December 2, 2021) from the Interim Director, Environment and Energy, titled "TransformTO Net Zero Strategy".
2. City Council approve the following community-wide greenhouse gas reduction targets:
 - a. 45 percent reduction in community-wide greenhouse gas emissions by 2025, from 1990 levels; and
 - b. net zero greenhouse gas emissions by 2040.
3. City Council direct the Director, Environment and Energy to report back:
 - a. in the second quarter of 2025, with a status update on progress in meeting the City of Toronto's 2030 corporate and community-wide greenhouse gas reduction targets, as outlined in Recommendation 2 above and Attachment B to the report (December 2, 2021) from the Interim Director, Environment and Energy, titled "TransformTO Net Zero Strategy";
 - b. in the second quarter of 2025, with a four year implementation plan for 2026-2030 on any additional actions and authorities required to achieve the City of Toronto's 2030 greenhouse gas reduction target; and
 - c. annually on emission reductions achieved for community-wide greenhouse gas reduction targets, and the 2025, and 2030 goal.
4. City Council direct the City Manager, in consultation with all appropriate City divisions heads, including the City Solicitor, or their designates, to develop and implement a plan that outlines how to refer to TransformTO Net Zero Strategy goals and targets as and where appropriate in all relevant:
 - a. submissions that the City of Toronto makes or the City of Toronto staff make in federal and provincial public comment processes; and
 - b. filings that the City of Toronto makes in proceedings before Federal and Provincial regulatory bodies, administrative tribunals and courts.
5. City Council authorize the Deputy City Manager, Corporate Services, or their designate, until December 31, 2030, to negotiate and enter into agreements, as may be required, to support the implementation of the City Council-adopted recommendations presented in the TransformTO Net Zero Strategy, dated December 2, 2021 with non-profit, public, and private sector organizations to:
 - a. collaborate on projects or initiatives;
 - b. provide in-kind and / or financial support from the approved Environment and Energy Division budget on projects or initiatives; and/or
 - c. receive funding,

on terms and conditions acceptable to the Deputy City Manager, Corporate Services, in consultation with the Director, Environment and Energy, and in a form satisfactory to the City Solicitor.

6. City Council authorize the Deputy City Managers to negotiate and enter into non-competitive agreements, including those with a value exceeding \$500,000 for which City Council approval would normally be required under City of Toronto Municipal Code Chapter 195 (Purchasing) with companies that have won Climate Champion status through the MaRS Discovery District's Mission from MaRS Climate Impact Challenge, on the following conditions:

- a. that the provision of goods or services from the company will assist the City to reduce greenhouse gas emissions and is aligned with the City's Net Zero Strategy;
- b. that any agreement is within the budget of the respective division within the Deputy City Manager's Service Area;
- c. that the agreement is on such terms and conditions satisfactory to the Deputy City Manager; and
- d. that the agreement is in a form satisfactory to the City Solicitor.

7. City Council direct that the Chief Procurement Officer report, as part of the annual Controller's report, on any non-competitive agreement that the Deputy City Managers enter into with companies that have won Climate Champion status through the MaRS Discovery District's Mission from MaRS Climate Impact Challenge.

8. City Council authorize the City Solicitor, in consultation with the City Clerk, to submit a Bill to Council to codify the currently Council-adopted targets, strategies, policies, programs and initiatives pertaining to green energy and climate change, in the first instance from this report, as additional articles in Chapter 669 of the City of Toronto Municipal Code, as and where appropriate.

9. City Council direct the City Manager and Deputy City Managers, in consultation with the Director, Environment and Energy to report back by the first quarter of 2023 on:

- a. what aspects of existing City programs and / or by-laws aimed at reducing natural gas use in new and existing buildings need to be strengthened or accelerated; and
- b. what additional programs and / or by-laws aimed at reducing natural gas use in new and existing buildings need to be developed and implemented,

in order to achieve the greenhouse gas emission reduction targets as outlined in Recommendation 2 above and Attachment B to the report (December 2, 2021) from the Interim Director, Environment and Energy, titled "TransformTO Net Zero Strategy".

10. City Council direct the Director, Environment and Energy, in consultation with the Controller, the Director, Accounting Services, the General Manager, Transportation Services, the Chief Planner and Executive Director, City Planning and other appropriate City Divisions, to prepare financial options and other incentives that the City could provide to encourage uptake of personal electric vehicles and disincentives to discourage use of fossil-fueled personal vehicles within the City of Toronto boundaries and report back through the 2023

budget where feasible and subsequent budget years if implementation in the 2023 budget is not feasible.

11. City Council direct the Director, Environment and Energy in consultation with the Controller, the Director, Accounting Services, the Chief Planner, and Executive Director, City Planning, the Chief Building Official and Executive Director, Toronto Buildings, and other appropriate City Divisions, and with Toronto Hydro, and to report back in the first quarter of 2023 on options for additional financial incentives, disincentives and other mechanisms to further encourage deep retrofits of existing buildings.

12. City Council direct the Director, Environment and Energy and the Chief Financial Officer and Treasurer to report back in the fourth quarter of 2022 on design and implementation options for a Toronto Carbon Budget and associated key performance metrics, which align with the City's financial budgets, to manage corporate and community greenhouse gas emissions, within an absolute limit that aligns with the City's 2025, 2030, and 2040 emissions reduction targets, and make clear the implications of the limits for the City's financial budgets, the 2024 budget cycle.

13. City Council request the Government of Ontario and Provincial agencies and corporations to:

a. develop and implement new or amend existing legislation, regulations, policies and / or programs in order to prioritize:

1. demand response and conservation as sources of electricity generation in Independent Electricity System Operator generation selection; and

2. increase the share of renewable electricity generated on the provincial electricity grid;

b. implement legislation, regulations, policies/or programs to encourage the transition to electric vehicles, including:

1. financial incentives for new and used Electric Vehicles;

2. financial incentives for home, workplace and fleet Electric Vehicles charging infrastructure;

3. establish a provincial sales mandate for Zero Emission Vehicles ("Zero Emission Vehicles" are battery-electric vehicles, plug-in hybrid electric vehicles or hydrogen fuel cell vehicles) that meets or exceeds any federal sales mandate for Zero Emission Vehicles;

4. support and encourage Electric Vehicles-ready new construction;

5. funding for publicly-accessible Electric Vehicle charging infrastructure, including for bi-directional chargers;

6. maintain existing benefits for Electric Vehicle drivers (e.g. High Occupancy Vehicle lane access on provincial highways); and

7. add financial incentives for purchasing all bikes, e-bikes and other non-carbon vehicles that are approved for use on City of Toronto road ways and cycling infrastructure; and

c. require all new and replacement equipment for building heating systems to be greater than 100 per cent efficiency.

14. City Council request the Government of Canada and Federal agencies and corporations to:

a. create and enforce a national clean electricity standard to ensure decarbonization of the electricity grid as soon as possible;

b. ensure all new and replacement equipment for building heating systems be greater than 100 percent efficient as soon as possible;

c. implement new and maintain existing financial incentives to encourage the transition to electric vehicles, including:

1. maintain purchase incentives for new electric vehicles and providing purchase incentives for used electric vehicles;

2. provide financial incentives for home, workplace and fleet electric vehicle charging infrastructure; and

3. provide funding to provinces and municipalities for public electric vehicle charging infrastructure, including for bi-directional chargers;

d. create and fund a national workforce and skills development strategy to enable a just net-zero transition;

e. conduct a strategic review of international and national supply chain requirements and issues to ensure that municipalities have sufficient access to all goods and services necessary to enable a transition to the net zero emission economy;

f. provide mechanisms and tools to lower the risk to lenders or similar entities involved with financing projects that enable decarbonization at scale; and

g. explore the creation of new crown corporations to manufacture and / or bulk purchase heat pumps, net zero hot water heaters, solar panels, renewable energy technologies, and electric vehicles.

15. City Council direct the Director, Environment and Energy, in coordination with Executive Director, Social Development, Finance and Administration and the Chief Procurement Officer, Purchasing and Materials Management, to identify ways that the City can support the reduction of the greenhouse gas emissions associated with food the City of Toronto procures, in alignment with the City's Cool Food Pledge and the C40 Good Food Cities Declaration, and to report back in the second quarter of 2023 on the status of corporate food-related emissions and recommended actions for the TransformTO 2026-2030 short-term action plan, including a goal to maximize local, organic and fair trade food procurement.

16. City Council direct the City Manager to explore the establishment of municipally owned corporations (modeled after the successful district energy system Enwave) for the purpose of manufacturing, installing, bulk purchasing, distributing and installing heat pumps, hot water heaters, renewable energy technologies, district energy systems, and electric vehicles.

17. City Council request the Chief Planner and Executive Director, City Planning to ensure the Official Plan, Zoning Bylaws, and planning policies and various Planning guidelines support

the recommendations in the Net Zero Strategy, including to discourage vehicle trips, enhance building energy efficiency, to reduce embedded carbon during construction, and to encourage active transportation and transit for short trips.

18. City Council express its support for a ban on two-stroke engine leaf blowers, lawnmowers and other small engine equipment and vehicles and request the Director, Municipal Licensing and Standards report back on the implementation of a ban as part of the noise update report in 2022.

19. City Council request the Deputy City Manager, Infrastructure and Development Services, in consultation with the General Manager, Transportation Services and the Chief Engineer and Executive Director, Engineering and Construction Services, to report back in first quarter 2023 with recommendations on the process and staffing changes required to have complete street designs considered for every major road rehabilitation project, including the necessary annual Key Performance Indicators to monitor progress.

20. City Council use its considerable influence as an OMERS employer sponsor and seat on the OMERS' Administration Corporation, to request that OMERS considers the City of Toronto's Net Zero strategy in its investment decisions and climate commitments, with a goal of limiting the global average temperature increase to 1.5° Celsius, including a plan to phase out investments in coal, oil, gas and pipelines, and consider alternatives putting a screen on new fossil fuel investments.

21. City Council request the Chief Planner and Executive Director, City Planning and the Chief Building Official to report back in 2022 on the feasibility of implementing emissions performance standards or incentives for existing buildings using the City's existing authorities, for implementation in 2023 or specific recommendations for any regulatory or legislative changes needed to enable implementation of emissions performance standards and on use of the permit process to ensure or encourage existing building HVAC and hot water replacement with 100 percent efficient equipment by 2028 and all additions and renovations to meet higher energy efficiency standards.

22. City Council request the Ministry of Municipal Affairs and Housing to consider strengthening the requirements in the Ontario Building Code for increased energy efficiency improvements at the time of renovation.

23. City Council request the Director, Environment and Energy to develop a plan to provide financing support for low carbon thermal energy systems, potentially including the use of Local Improvement Charges or other financial mechanisms, as well as mandatory connections or connection ready and low temperature HVAC design guidelines and standards for new buildings and report back in 2023 with implementation in 2024.

24. City Council request the Interim Director, Environment and Energy to provide a clear definition of low carbon thermal energy sources in order to enable monitoring of progress against the target at their next annual report on the status of TransformTO.

25. City Council direct the Executive Director, Municipal Licensing and Standards to set a goal of Net Zero for 2030 for vehicles-for-hire, and to align the plans for vehicle electrification and emissions reduction to achieve this goal.

26. City Council request the Chief Planner and Executive Director City Planning, report back on a requirement for all gas stations to provide mandatory Electric Vehicle charging.

Committee Decision Advice and Other Information

The Infrastructure and Environment Committee:

1. Referred the following motions to the Director, Environment and Energy, for review in collaboration with relevant divisions and interested City Councillors, and report directly to City Council at its meeting on December 15 and 16, 2021:

1. City Council endorse the targets and actions outlined in Attachment B, titled "TransformTO Net Zero Strategy" to the report (December 2, 2021) from the Director, Environment and Energy with the following additional instructions:
 - a. request City Planning advance the schedule for implementing versions five and six of the Toronto Green Standard by one year each, such that V5 applies in 2025 and V6 applies in 2028 and explore stronger incentives for the current tier 2 and tier 3;
 - b. request City Planning, as part of the review of embedded carbon in buildings, implement policies to encourage use of low-carbon intensive materials to build buildings;
 - c. request the Director, Environment and Energy and Chief Planner work with other divisions as needed to require all new buildings to be connected to district renewable thermal energy systems or to be connection ready;
 - d. request the Director, Environment and Energy to set goals of no new expansion of energy systems which produce carbon and report back in 2023 with actions to be implemented to support this endeavour;
 - e. request the General Manager, Transportation Services accelerate the capital budget schedule for redesign of roadways as part of the bike plan;
 - f. request the Toronto Transit Commission to accelerate their green fleet plan and to ensure all new bus purchases are low carbon in 2022 instead of 2025;
 - g. support resident-led climate action and engagement by dedicating an action area to supporting community hubs, community centres, neighbourhood pods and other local support networks, as key social and physical infrastructure for strengthening community climate engagement and resilience;
 - h. establish a Climate Advisory Group that centres the voices of equity-deserving groups, and includes youth, civil society organizations, labour and workers' rights organizations, and academia, and will:
 1. work with Indigenous rights holders and urban Indigenous communities to share knowledge and learnings to inform climate action; and
 2. resource the Climate Advisory Group to meet regularly and publish an annual independent accountability report to review the City's progress on the TransformTO Net Zero Strategy, possibly with support from the Auditor General or other resources;
 - i. ensure an independent peer review of the climate lens to ensure the criteria is agreed upon through the engagement of climate advocacy groups, experts and academics - to ensure robust criteria are used in the development/application of the climate lens;
 - j. ensure the risk of reserves and other investments follow the strictest protocols for

Environmental, Social & Governance investing and climate risk;

k. ensure TCHC buildings are included in Corporate Real Estate Management's Net Zero carbon plan; and

l. ensure that, as of 2023, any new equipment being installed in a city facility must contribute to net zero and all new buildings be designed and built to net zero.

2. That the Deputy City Manager, Corporate Services report on the feasibility of creating a Climate Change Corps to support the goals and objectives of the Transform TO Net Zero Strategy. Staff should engage organizations like the Carpenters Union local 27 and the Community Benefits Network in helping to create the Climate Change Corps.

Infrastructure and Environment Committee considered items IE26.16 and IE26.18 together.

Origin

(November 19, 2021) Report from the Deputy City Manager, Corporate Services

Summary

The climate crisis grows more urgent every year. The window to make significant and lasting change is disappearing. Action must happen immediately and it must be at the necessary scale required to respond to this crisis.

In 2017, TransformTO was unanimously approved by City Council demonstrating Toronto's commitment to a global call for action to limit global temperature rise in line with international goals. Since 2017, the Intergovernmental Panel on Climate Change has shown that to limit global temperature rise to below 1.5 degrees Celsius, cities globally need to achieve carbon neutrality by 2050 and halve global emissions by 2030.

City Council's 2019 declaration of a global climate emergency shifts Toronto's focus to align with the Intergovernmental Panel on Climate Change's recommended pathway - net zero by 2050 or sooner.

This Report recommends that Toronto adopt a new net zero by 2040 goal. By doing so, Toronto will ensure alignment with the 2030 trajectory to meet the necessary scientific-based commitments to keep the planet's temperature habitable.

Technical modelling of Toronto's net zero pathway shows us that in order to reach net zero greenhouse gas emissions by 2050 or sooner, Toronto must first be on the correct trajectory for achieving its 2030 City Council adopted goal of 65 per cent emissions reduction from 1990 levels. Without aligning our action and implementation to that steeper trajectory, net zero by 2040 or 2050 will be out of reach.

The City is taking action to tackle Toronto's emissions through established programs and major policy achievement such as the Net Zero Existing Building Strategy, Net Zero Carbon Plan for City-owned buildings, an update to the Toronto Green Standard, the Electric Vehicle Strategy, advancing the City's Cycling Plan, and greening City and Toronto Transit Commission fleets. Steady progress has been made to reduce emissions in recent years and community-wide greenhouse gas emissions have decreased since 1990. Toronto is on track to achieve its 2020 greenhouse gas emissions target of a 30 per cent reduction from 1990 levels. Despite population growth, community-wide emissions continue to decline while Toronto's gross domestic product rises. The decrease in greenhouse gas emissions in recent years can be attributed to a less carbon intensive electricity grid and lower transportation emissions from gasoline and diesel fuels.

Toronto's current 2019 greenhouse gas inventory shows that our emissions are currently tracking on the trajectory of an 80 per cent reduction by 2050, from 1990 levels, however, emissions have not decreased fast enough in recent years. Data shows that acting incrementally will not be enough to put us on the net zero trajectory. Rapid action to scale up existing programs, additional authorities for the City of Toronto (City) to implement nimbly and effectively, significant levels of investment and coordinated action with other levels of government will be needed to match City Council's ambition.

TransformTO Net Zero Framework:

The TransformTO: Critical Steps for Net Zero by 2040 Report approach is presented in the following parts:

- This staff report outlines the rationale, roles and opportunities needed for successful delivery on climate action, and presents an overview of the actions the City will take to reach the 2030 interim targets;
- Attachment A is the TransformTO Net Zero Strategy Short-Term Implementation Plan 2022 to 2025;
- Attachment B is the TransformTO Net Zero Strategy, which includes the rationale behind the net zero pathway and opportunities needed to successfully reach the net zero target;
- Attachment C is the TransformTO Net Zero Framework Technical Report, which provides details on the pathway and specific actions that can be taken by the City, other governments, residents, and businesses;
- Attachment D provides highlights of Toronto's programs that are reducing emissions;
- Attachment E provides a summary of public and stakeholder consultations from 2018 to 2021 that have supported the development of this strategy and actions; and
- Attachment F responds to a City Council request on the impact of small engine law and garden equipment.

Achieving net zero is not simply a technology solution. The combination of attentive urban design, city planning, active transportation, and transit systems, changes in consumptive behaviour and supportive net zero consumer choices, will all need to work in step to cumulatively increase the efficiencies of corresponding urban systems.

No municipal government has the legislative tools or fiscal capacity to achieve ambitious targets on its own. Reaching net zero by 2040 will require additional authority or action from other levels of government, the private sector, and resident action. For example, the City of Toronto does not regulate electric vehicle sales targets, but the City can enable uptake through providing charging infrastructure. Similarly, implementation of the Existing Buildings Strategy to retrofit homes and buildings will require additional legal authority to set performance standards from the provincial government.

The Net Zero Strategy presents a set of 2030 interim targets for community-wide emissions as well as City of Toronto corporate targets to demonstrate leadership by example. These targets are designed to reduce emissions by 6.8Mt in the next eight years. This is equivalent to about 2 million cars off the road. The 2030 targets presented in the Strategy are:

1. 100 per cent of new buildings are designed and built to be near zero greenhouse gas emissions;
2. 50 per cent reduction in greenhouse gas emissions from existing buildings, from 2008 levels; this means that approximately 100,000 buildings must be retrofitted in the next 8 years, or approximately 12,500 buildings per year;
3. 50 per cent of community-wide energy comes from renewable or low-carbon sources; this will mean that approximately 35 million megawatt hour of energy will need to be sourced from renewable or low carbon sources;
4. 25 per cent of commercial and industrial floor area is connected to low carbon thermal energy sources;
5. 75 per cent of school/work trips under 5kilometres are walked, biked or by transit;
6. 30 per cent of registered vehicles in Toronto will be electric; this means that by 2030, an estimated 332,000 vehicles will need to be electric;
7. Identify pathways to more sustainable consumption in City of Toronto operations and in Toronto's economy;
8. 70 per cent residential waste diversion from the City of Toronto's Integrated Waste Management System; and
9. Reduce corporate emissions by 65 per cent, over 2008 levels, to demonstrate leading by example; this will mean that approximately 330 kiloton of emissions will need to be reduced cross-corporately.

Achieving these 2030 targets requires action now. A summary of thirty (30) near-term actions to be implemented between 2022 and 2025 are listed below. More detailed descriptions of each action including their timeline for report back is included in the TransformTO Short-Term Implementation Plan 2022-2025 (Attachment A) and in the Net Zero Strategy (Attachment B).

Meeting Targets:

Achieving the targets in the Net Zero Strategy will not just be the work of the City government. The City of Toronto Corporation can control only a small portion of Toronto's community-wide emissions directly -- nearly 5 per cent according to recent greenhouse gas inventories.

However, the City plays a clear role in defining the ways we build, travel, and consume and when policies are effectively implemented and programs are easily accessed to realize maximum uptake and engagement, our municipal government can have a greater impact on the community's emissions.

In order to meet the 2030 targets, the City will use its influence to regulate, advocate and facilitate rapid transformation in five critical steps:

- Demonstrate carbon accountability locally and globally by establishing a carbon budget – Leading by example, the City will establish a carbon budget to track climate actions against annual emission limits to drive accountability. The City's actions will be measured against these limits each year until net zero is achieved, with any gaps in action identified and solutions proposed so we stay on course.

- Accelerate a rapid and significant reduction in natural gas use – Toronto will take further action to limit the use of natural gas. Natural gas use for water and space heating represents over half of Toronto’s total greenhouse gas emissions. In addition to new buildings eliminating natural gas use through the Toronto Green Standard, the Net Zero Existing Buildings Strategy articulates ambitious targets to replace conventional heating systems with more efficient electric heat pumps drawing from a green provincial electricity grid.

- Establish performance targets for existing buildings – Toronto will establish mandatory emissions performance reporting, disclosure, and emissions performance targets for buildings so we can better understand and limit emissions from our homes and buildings. These mandatory targets will be preceded by voluntary targets. Catalyzing the electrification of building heating systems, as a preferred alternative to the use of fossil-fuel heating systems, will be key.

- Increase access to low carbon transportation options, including walking, biking, public transit and electric vehicles – Toronto will increase the use of active and public transportation reduces greenhouse gas emissions, energy use and congestion while promoting equity and health benefits. The City will also advance options to incentivize electric vehicle adoption and disincentivize the use of carbon-polluting gasoline and diesel vehicles, through supporting the transition to electric vehicles.

- Increase local renewable energy to contribute to a resilient, carbon-free grid – Toronto will work in step with Toronto Hydro to successfully support the growth and prosperity of the city through reliable, uninterrupted electric service provision. By increasing opportunities for local renewable generation to be located within the City's boundary, Toronto will be more resilient and will contribute to a decarbonized provincial electricity grid.

Although these five steps will put the community on the correct path to 2030, it is critical that these steps be sustained through to the year 2040 in order to achieve net zero emissions by 2040. Technical modelling suggests that if every single resident, business, non-commercial institution, industry and the City of Toronto government itself was enabled to choose net zero choices now, 2040 is achievable.

Summary of Short Term Implementation Plan Actions (2022-2025)

100 per cent of new buildings are designed and built to be near zero greenhouse gas emissions, by 2030	
1	Ensure near zero emissions for all new construction
2	Evaluate and limit impacts of embodied carbon in construction
Greenhouse gas emissions from existing buildings are cut in half, from 2008 levels, by 2030	
3	Advance Implementation of the Net Zero Existing Buildings Strategy
50 per cent of community-wide energy comes from renewable or low-carbon sources and 25 per cent of commercial and industrial floor area is connected to low carbon thermal energy sources, by 2030	

100 per cent of new buildings are designed and built to be near zero greenhouse gas emissions, by 2030	
4	Work with industry experts to explore limiting the expansion of natural gas systems and reversing system growth, where feasible, and limiting installation of natural gas equipment
5	Support adoption and mainstreaming of net zero, resilient energy sources for new and existing developments
6	Address barriers and develop strategies to increase the deployment of renewable energy and storage technologies, including but not limited to solar, wind, biomass, geothermal, waste heat recovery and heat pumps
7	Actively support, advocate to and partner with Toronto Hydro, as well as the Provincial and Federal governments and agencies, to decarbonize the provincial electricity grid, promote energy conservation and enable local renewable energy generation
75 per cent of school/work trips under 5 kilometres are walked, biked, or by transit, by 2030	
8	Expand biking and pedestrian infrastructure, including the rollout of cycling routes, bicycle parking and bike share at or near Toronto Transit Commission stations
9	Increase existing bus and streetcar service levels to encourage shifts to low-carbon, sustainable transportation
10	Update and accelerate implementation of city-wide Transportation Demand Management Strategy
11	Develop tools to address emissions of greenhouse gases and air pollutants on an area or project level
30 per cent of registered vehicles in Toronto are electric, by 2030	
12	Align the City's Electric Vehicle Strategy to the net zero goals and implement the Electric Vehicle Strategy
13	Determine options to incentivize Electric Vehicle adoption and disincentivize use of gas and diesel vehicles
14	Encourage the adoption of electric commercial and freight vehicles, including Electric Vehicles and e-bikes for last mile deliveries
Identify pathways to more sustainable consumption in City of Toronto operations and in Toronto's economy	
15	Continue to pursue policy and programmatic interventions that help the City reach its aspirational goals of zero waste and a circular economy, and which identify pathways to more sustainable consumption in both municipal operations and in all sectors of the economy
70 per cent residential waste diversion from the City of Toronto's Integrated Waste Management System	

100 per cent of new buildings are designed and built to be near zero greenhouse gas emissions, by 2030	
16	Continue implementation of the City's Long Term Waste Management Strategy which sets a goal of diverting 70 per cent of waste managed from City customers away from landfill, by focusing on waste reduction, reuse and recycling activities that promote resource conservation and reduce environmental impact
Develop and implement strategies to improve greenspace infrastructure to build climate resilience	
17	Increase canopy cover and biodiversity and enhance greenspaces
Ensure equitable implementation and ongoing improvement of engagement and reporting	
18	Support resident-led climate action and engagement
19	Work with Indigenous rights holders and urban Indigenous communities to share knowledge and learnings
20	Develop and implement youth engagement strategy
21	Design and launch a climate advisory group for 2022 and beyond to ensure implementation of the Net Zero Strategy is equitable and reflects the priorities and interests of the community
22	Develop equity indicators to be reported out as part of the TransformTO implementation status update
23	Encourage the growth of green industry to provide the products and services needed to enable a net zero city
24	Leverage Live Green Toronto to develop and implement a city-wide climate action awareness campaign
Lead by Example – City of Toronto corporate greenhouse gas emissions are reduced by 65 per cent over 2008 base year	
25	Develop and apply a Climate Lens in decision-making
26	Design and implement a Toronto Carbon Budget
27	Ensure net zero City-owned buildings
28	Reduce emissions from City and Agency-owned vehicles
29	Encourage City staff to adopt sustainable and climate positive practices at work and in their commute
30	Lead by example in managing waste and producing renewable energy from biogas at City facilities

City staff will begin further analysis and engagement on the thirty (30) short-term actions outlined in Attachment A as the City transitions to implementation.

Before 2030, two short-term implementation plans will be presented to Council -- the first one identifies actions to be delivered 2022 to 2025 (Attachment A), and the second one covering the period from 2026 to 2030 will outline additional actions that will ensure that we are on track to reach the 2030 target. Detailed reports outlining recommendations for bylaws, policies, and new programs will be brought back to City Council for consideration starting in 2022 and continuing over the following four years. Included in this report back will be an assessment of our progress towards the goal of net zero by 2040.

For the most part, the short-term actions do not require Toronto to pursue dramatically new climate actions -- they require Toronto to do them faster and at a larger scale. Existing strategies and plans such as Electric Vehicle Strategy, the Toronto Green Standard, the Net Zero Existing Buildings Strategy, Corporate Real Estate Management's Net Zero Carbon Plan for City-owned buildings, and the Toronto Transit Commission Green Bus Program are examples of plans that identify detailed steps and considerations to get to net zero.

The 2030 greenhouse gas emission reduction targets and short term actions have been developed through extensive consultation across City divisions and agencies, and with stakeholders and the public. Since 2019, the City has engaged over 5,000 residents, businesses, and other stakeholders to understand key priorities, opportunities and challenges. Consultations from recent years, particularly in 2021, have highlighted the issue of responding to the climate crisis with urgency.

Current City Plans and Investments:

The City has approved a number of ambitious plans and targets to reduce emissions from its own operations, including the Corporate Real Estate Management's Net Zero Carbon Plan which was adopted earlier this year. The Net Zero Carbon Plan focuses on City-owned buildings. Beginning with the 2023 Budget, staff will be integrating the Net Zero Carbon Plan for City-owned buildings into the capital planning process synchronously with the application of a Climate Lens and Financial Planning's Asset Management Strategy. The City will continue to make investments every year to achieve City Council-identified emissions reduction targets and net zero emissions status in its buildings. Like the Net Zero Carbon Plan for City-owned buildings, the Sustainable Fleets Plan, the Toronto Transit Commission Green Bus Program, and other key City plans will follow a similar process. Implementation of these plans is underway and will go a long way to reduce emissions from City operations.

For the first time in Toronto's history, a Climate Lens was utilized in the 2021 budget process. Initial data reported through the Climate Lens identified that Toronto invested \$611.3 million on capital projects that have components related to GHG reduction or climate resilience in 2021. As 2021 reflected the first year of this initiative, data has not yet been collected across all divisions and agencies and these figures excluded climate investments made by key services such as Toronto Water, Toronto Community Housing Corporation and the Toronto Transit Commission. The 2022 Budget Process builds on the 2021 Budget process to evidence progress in cross corporate culture change including projects being flagged by programs that did not do so last year. City staff are working to capture investments directly related to climate action in the 2022 budget. For example, the recommended 2022 Rate-Supported Budgets for water, solid waste, and parking identify climate related investments. In addition to this investment, the City is making significant capital investments in the Toronto Transit Commission -- the 2021-2030 10-year Capital Plan totals \$11.907 billion and includes \$1.576 billion alone for vehicles such as buses, streetcars and subway cars, including the acquisition of electric buses to enable residents to reduce their transportation related greenhouse gas emissions. Further, Toronto has also issued \$630 million in Green Bonds which have financed a range of key climate projects targeting mitigation and resilience activities such as extending subway lines and expanding the local cycling network, to energy retrofits in social housing and flood protection projects.

Collaboration:

Many challenges outside of the City's control have also been identified through consultation, including the slow pace of market transformation, labour force training and matching expertise for implementation, consumer education and awareness, education of service providers, strong provincial and federal policy and financial support for decarbonization.

This report emphasizes that in order to be successful, bold leadership and collaboration will be required from public and private stakeholders. Furthermore, innovative partnerships and business models must be supported and evolve and traditional economic priorities must include environmental cost-benefit analyses and climate outcomes. To summarize, climate action means collective action.

Lastly the opportunities to avoid 'lock in' of carbon emissions in city systems are being missed. Achieving the targets set out in this report, the TransformTO Short-Term Implementation Plan 2022-2025 (Attachment A) and the Net Zero Strategy (Attachment B) will require a different means of delivery and decision-making will need to be re-oriented so that the net zero choice becomes the best choice now and in the future.

Background Information (Committee)

(November 19, 2021) Report from the Deputy City Manager, Corporate Services on TransformTO - Critical Steps for Net Zero by 2040

(<https://www.toronto.ca/legdocs/mmis/2021/ie/bgrd/backgroundfile-173756.pdf>)

Attachment A - TransformTO Short-Term Implementation Plan 2022-2025

(<https://www.toronto.ca/legdocs/mmis/2021/ie/bgrd/backgroundfile-173757.pdf>)

Attachment B - TransformTO Net Zero Strategy - A Climate Action Pathway to 2030 and Beyond

(<https://www.toronto.ca/legdocs/mmis/2021/ie/bgrd/backgroundfile-173758.pdf>)

Attachment C - TransformTO Net Zero Framework Technical Report

(<https://www.toronto.ca/legdocs/mmis/2021/ie/bgrd/backgroundfile-173759.pdf>)

Attachment D - Highlights of Toronto's Programs to Date

(<https://www.toronto.ca/legdocs/mmis/2021/ie/bgrd/backgroundfile-173760.pdf>)

Attachment E - Summary of Public and Stakeholder Consultations (2018-2021)

(<https://www.toronto.ca/legdocs/mmis/2021/ie/bgrd/backgroundfile-173761.pdf>)

Attachment F - Small Engine Lawn and Garden Equipment

(<https://www.toronto.ca/legdocs/mmis/2021/ie/bgrd/backgroundfile-173762.pdf>)

(December 2, 2021) Presentation from the Interim Manager, Policy and Research, Environment and Energy Division on TransformTO - Critical Steps for Net Zero by 2040

(<https://www.toronto.ca/legdocs/mmis/2021/ie/bgrd/backgroundfile-174004.pdf>)

Background Information (City Council)

(December 14, 2021) Supplementary report from the Interim Director, Environment and Energy on TransformTO - Critical Steps for Net Zero by 2040 (IE26.16a)

(<https://www.toronto.ca/legdocs/mmis/2021/cc/bgrd/backgroundfile-174418.pdf>)

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(November 26, 2021) E-mail from Brendan Hendel-McCarthy (IE.Supp)
(November 27, 2021) E-mail from Marc Marchild (IE.Supp)
(November 27, 2021) E-mail from Melanie Anderson (IE.Supp)
(November 27, 2021) E-mail from Dr. Karen Ward (IE.Supp)
(November 27, 2021) E-mail from Mario Maceda (IE.Supp)
(November 27, 2021) E-mail from Ian Browne (IE.Supp)
(November 26, 2021) E-mail from Shahnaz Stri-Shaikh (IE.Supp)
(November 26, 2021) E-mail from Graham Lavender (IE.Supp)
(November 26, 2021) E-mail from Julia Chew (IE.Supp)
(November 26, 2021) E-mail from Duane Currie (IE.Supp)
(November 26, 2021) E-mail from Peter Ellement (IE.Supp)
(November 26, 2021) E-mail from Rebeca Furtado (IE.Supp)
(November 26, 2021) E-mail from Vilma Gianfelice (IE.Supp)
(November 26, 2021) E-mail from Miles Gipton (IE.Supp)
(November 26, 2021) E-mail from Howard Henderson (IE.Supp)
(November 26, 2021) E-mail from Dafydd Hughes (IE.Supp)
(November 26, 2021) E-mail from Gerald Lazare (IE.Supp)
(November 26, 2021) E-mail from Jessica Lombardi (IE.Supp)
(November 26, 2021) E-mail from Francesco Menghi (IE.Supp)
(November 26, 2021) E-mail from James Rolfe (IE.Supp)
(November 26, 2021) E-mail from Leigh Evan Silcox (IE.Supp)
(November 26, 2021) E-mail from Patricia Slavinski (IE.Supp)
(November 26, 2021) E-mail from Cameron Tingley (IE.Supp)
(November 26, 2021) E-mail from Shawnda Charron Nardia (IE.Supp)
(November 26, 2021) E-mail from Spencer Roth (IE.Supp)
(November 26, 2021) E-mail from Dr. Dianne Saxe (IE.Supp)
(November 26, 2021) E-mail from Matt Welke (IE.Supp)
(November 26, 2021) E-mail from Ria Prakash (IE.Supp)
(November 26, 2021) E-mail from Jason Gallina (IE.Supp)
(November 26, 2021) E-mail from Danielle Davis (IE.Supp)
(November 26, 2021) E-mail from Tania Szablowski (IE.Supp)
(November 26, 2021) E-mail from Philipp Angermeyer (IE.Supp)
(November 26, 2021) E-mail from Melissa Avila (IE.Supp)
(November 26, 2021) E-mail from Boaz Axelrad (IE.Supp)

(November 26, 2021) E-mail from Hannes Bretschneider (IE.Supp)
(November 26, 2021) E-mail from Michael Caldwell (IE.Supp)
(November 26, 2021) E-mail from Matthieu Caron (IE.Supp)
(November 26, 2021) E-mail from Sean Cooper (IE.Supp)
(November 26, 2021) E-mail from Jessica Costa (IE.Supp)
(November 26, 2021) E-mail from Dorian Douma (IE.Supp)
(November 26, 2021) E-mail from T.J. Goertz (IE.Supp)
(November 26, 2021) E-mail from Jonathan Herberman (IE.Supp)
(November 26, 2021) E-mail from Andrew Hunter (IE.Supp)
(November 26, 2021) E-mail from Jeremy Knowles (IE.Supp)
(November 26, 2021) E-mail from Arturo M. (IE.Supp)
(November 26, 2021) E-mail from Chris Thom (IE.Supp)
(November 26, 2021) E-mail from Maryanne Stone-Jimenez (IE.Supp)
(November 26, 2021) E-mail from Jeremy Lundy (IE.Supp)
(November 26, 2021) E-mail from Bailey Chui (IE.Supp)
(November 26, 2021) E-mail from Jonathan Hasbany (IE.Supp)
(November 26, 2021) E-mail from Ruth Silver (IE.Supp)
(November 26, 2021) E-mail from Hugo Cordeau (IE.Supp)
(November 26, 2021) E-mail from Dan Horchik (IE.Supp)
(November 26, 2021) E-mail from Jennifer Knoch (IE.Supp)
(November 26, 2021) E-mail from Lara Arabian (IE.Supp)
(November 26, 2021) E-mail from Timna Ben-Ari (IE.Supp)
(November 26, 2021) E-mail from Lisa Jayne (IE.Supp)
(November 26, 2021) E-mail from Benjamin Lan (IE.Supp)
(November 26, 2021) E-mail from Cliff Mewdell (IE.Supp)
(November 26, 2021) E-mail from Alexei Miecznikowski (IE.Supp)
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(November 29, 2021) E-mail from Jennifer Hollett (IE.Supp)
(November 29, 2021) E-mail from Carmen Taranu (IE.Supp)
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(November 26, 2021) E-mail from Sam Arnold (IE.Supp)
(November 26, 2021) E-mail from Norwin Anne (IE.Supp)
(November 26, 2021) E-mail from Ivana Marzura (IE.Supp)
(November 26, 2021) E-mail from Gavin Platt (IE.Supp)
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(November 26, 2021) E-mail from Puru Panch (IE.Supp)
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(November 26, 2021) E-mail from Andrea Grochalova (IE.Supp)
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(November 26, 2021) E-mail from Anne Fleming (IE.Supp)
(November 26, 2021) E-mail from Peter Donnelly (IE.Supp)

(November 26, 2021) E-mail from Parisa Bahramloueian (IE.Supp)
(November 26, 2021) E-mail from Simon Andrews (IE.Supp)
(November 26, 2021) E-mail from Loudon Young (IE.Supp)
(November 26, 2021) E-mail from D. David Landart (IE.Supp)
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(November 26, 2021) E-mail from Elise Hug (IE.Supp)
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(November 27, 2021) E-mail from Barbi Lazarus (IE.Supp)
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(November 29, 2021) E-mail from Sandra McCrossan (IE.Supp)
(November 28, 2021) E-mail from Anita Wong (IE.Supp)
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(November 28, 2021) E-mail from Gray Taylor (IE.Supp)
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(November 28, 2021) E-mail from Gilles Marchildon (IE.Supp)
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(November 28, 2021) E-mail from Jill Glessing (IE.Supp)
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(November 27, 2021) E-mail from Lynn Francis, Mark Lecker, etc (IE.Supp)
(November 27, 2021) E-mail from Claire Hall (IE.Supp)
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(November 29, 2021) E-mail from Dr. Ellen Greenblatt (IE.Supp)
(November 29, 2021) E-mail from Tim Kraan (IE.Supp)
(November 29, 2021) E-mail from Janet Lin (IE.Supp)
(November 29, 2021) E-mail from Patrick Meredith-Karam (IE.Supp)
(November 29, 2021) E-mail from Dana Molckovsky (IE.Supp)

(November 29, 2021) E-mail from Marjorie Murray (IE.Supp)
(November 29, 2021) E-mail from Marjorie Nichol (IE.Supp)
(November 29, 2021) E-mail from Ed Rubinstein (IE.Supp)
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(November 29, 2021) E-mail from Alison Stewart (IE.Supp)
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(November 26, 2021) E-mail from Mary F Kennedy (IE.Supp)
(November 26, 2021) E-mail from Neil Arcot (IE.Supp)
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(November 29, 2021) E-mail from Elizabeth Chrumka (IE.Supp)
(November 29, 2021) E-mail from Cayla Clarkson (IE.Supp)
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(November 29, 2021) E-mail from Lee Giles (IE.Supp)
(November 29, 2021) E-mail from Christopher Hoyle (IE.Supp)
(November 29, 2021) E-mail from Chris Jacobs (IE.Supp)
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(November 29, 2021) E-mail from Jenny Wawrow (IE.Supp)
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(November 27, 2021) E-mail from Abdullah (IE.Supp)
(November 27, 2021) E-mail from Mauricio Argote-Cortes (IE.Supp)
(November 27, 2021) E-mail from Christopher Bozek (IE.Supp)
(November 27, 2021) E-mail from Kevin Carmona-Murphy (IE.Supp)
(November 27, 2021) E-mail from Shan Duan (IE.Supp)
(November 27, 2021) E-mail from Louloua Habli (IE.Supp)
(November 27, 2021) E-mail from Stephan Huettenschmidt (IE.Supp)
(November 27, 2021) E-mail from Niall Ryan (IE.Supp)
(November 27, 2021) E-mail from Matthieu Schapira (IE.Supp)
(November 27, 2021) E-mail from Susan Vandendam (IE.Supp)
(November 27, 2021) E-mail from Lynn Walker (IE.Supp)
(November 27, 2021) E-mail from Maria Yancheva (IE.Supp)
(November 27, 2021) E-mail from Ingrid Buday (IE.Supp)
(November 27, 2021) E-mail from Patrick N. (IE.Supp)
(November 27, 2021) E-mail from Catherine Oliver (IE.Supp)
(November 27, 2021) E-mail from Delfina Ortega-Paredes (IE.Supp)
(November 27, 2021) E-mail from Tierney Smith (IE.Supp)
(November 30, 2021) E-mail from Patrick Mccluskey (IE.Supp)
(December 1, 2021) E-mail from Tim Ellis, Board Member, Mimico Residents Association (IE.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-141693.pdf>)
(December 1, 2021) Letter from Sue Dexter, Board, Harbord Village Residents' Association (IE.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-141727.pdf>)
(December 1, 2021) E-mail from Jeff Sun (IE.Supp)
(December 1, 2021) E-mail from Ignatius Sridhar (IE.Supp)
(December 1, 2021) E-mail from Olivia Zhao (IE.Supp)
(December 1, 2021) E-mail from Rachel Hertzman (IE.Supp)
(December 1, 2021) Letter from Zaid Rashid (IE.Supp)
(November 28, 2021) E-mail from Zoraida Anaya (IE.Supp)
(November 28, 2021) E-mail from Soroush Arghavan (IE.Supp)

(November 28, 2021) E-mail from Lauren Blumas (IE.Supp)
(November 28, 2021) E-mail from Jagvir Brar (IE.Supp)
(November 28, 2021) E-mail from Juanita Da Barros (IE.Supp)
(November 28, 2021) E-mail from Mark Fernando (IE.Supp)
(November 28, 2021) E-mail from Hagit Fry (IE.Supp)
(November 28, 2021) E-mail from Kris Langille (IE.Supp)
(November 28, 2021) E-mail from Mike Lawler (IE.Supp)
(November 28, 2021) E-mail from Claus Lensbol (IE.Supp)
(November 28, 2021) E-mail from Andrew Muroff (IE.Supp)
(November 28, 2021) E-mail from Kendreick Paterson (IE.Supp)
(November 28, 2021) E-mail from Holly Reid (IE.Supp)
(November 28, 2021) E-mail from John Taranu (IE.Supp)
(November 28, 2021) E-mail from Andreas Wille (IE.Supp)
(December 1, 2021) E-mail from Martin Green (IE.Supp)
<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-141781.pdf>
(November 28, 2021) E-mail from James Barker (IE.Supp)
(November 28, 2021) E-mail from Clark Whitney (IE.Supp)
(December 1, 2021) E-mail from Jim McPhail (IE.Supp)
(December 1, 2021) E-mail from Vince Hughes (IE.Supp)
(November 30, 2021) E-mail from Douglas Ferguson (IE.Supp)
(November 30, 2021) E-mail from Lidia Labate (IE.Supp)
(November 30, 2021) E-mail from Claire Smith (IE.Supp)
(December 1, 2021) E-mail from Marc Boudreau (IE.Supp)
(December 1, 2021) E-mail from James O'Malley (IE.Supp)
(December 1, 2021) E-mail from Rachel Robbins (IE.Supp)
(December 1, 2021) E-mail from Ethan Chiddicks (IE.Supp)
(November 26, 2021) E-mail from Miriam Henriques (IE.Supp)

(November 29, 2021) E-mail from Harold Smith (IE.Supp)
(November 29, 2021) E-mail from Asil Gilani (IE.Supp)
(November 29, 2021) E-mail from Alexander Stagnitta (IE.Supp)
(December 1, 2021) E-mail from Sarah Martin (IE.Supp)
(December 1, 2021) E-mail from Valérie Bolduc (IE.Supp)
(December 1, 2021) E-mail from Jack Derricourt (IE.Supp)
(November 29, 2021) E-mail from Javed Nissar (IE.Supp)
(November 29, 2021) E-mail from Jacob Givertz-Steel (IE.Supp)
(December 1, 2021) E-mail from Sharon Zeiler (IE.Supp)
(December 1, 2021) E-mail from Marc Fowler (IE.Supp)
(December 1, 2021) E-mail from Heather Schramm (IE.Supp)
(December 1, 2021) E-mail from Daniel Di Camillo (IE.Supp)
(November 30, 2021) E-mail from Alan Barthel (IE.Supp)
(December 1, 2021) E-mail from David Ley (IE.Supp)
(December 1, 2021) E-mail from Jeff Craig (IE.Supp)
(December 1, 2021) E-mail from Naomi Miller (IE.Supp)
(December 1, 2021) E-mail from David Lussier (IE.Supp)
(December 1, 2021) E-mail from Brian McLachlan (IE.Supp)
(December 1, 2021) E-mail from Dundee Staunton, Chris Keating and John Watt (IE.Supp)
(November 30, 2021) Letter from Kathy Laird (IE.Supp)
(December 1, 2021) E-mail from Michael Polanyi (IE.Supp)
(December 1, 2021) E-mail from Sana Amin (IE.Supp)
(December 1, 2021) E-mail from Rachel Wang (IE.Supp)
(December 1, 2021) E-mail from Ignatius Sridhar (IE.Supp)
(December 1, 2021) Letter from Amelia Rose Khan, Toronto350 (IE.Supp)
<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-141913.pdf>
(November 30, 2021) E-mail from Ronny Yaron (IE.Supp)

(December 1, 2021) E-mail from JJ Fueser (IE.Supp)
(December 1, 2021) E-mail from Rebecca Weigand (IE.Supp)
(November 30, 2021) E-mail from Donna-Marie Batty, StopPlastics (IE.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-141920.pdf>)
(December 1, 2021) Letter from Margot Whittington, Climate Policy Analyst, The Atmospheric Fund (IE.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-141921.pdf>)
(December 1, 2021) Letter from Karen Chapple, Director, the School of Cities and Professor, University of Toronto (IE.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-141965.pdf>)
(December 1, 2021) Letter from Andria Babbington, President, Toronto and York Region Labour Council (IE.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-141966.pdf>)
(December 1, 2021) E-mail from Kevin Lockhart (IE.Supp)
(December 1, 2021) E-mail from Matthew Freedlander (IE.Supp)
(December 1, 2021) E-mail from Mary Alton (IE.Supp)
(December 1, 2021) E-mail from Mohammad Jaberri (IE.Supp)
(December 1, 2021) Letter from Liz Addison (IE.Supp)
(December 2, 2021) Letter from Lee Scott (IE.Supp)
(December 1, 2021) E-mail from Julie Sieg (IE.Supp)
(December 1, 2021) E-mail from Natalie Telfer (IE.Supp)
(December 1, 2021) E-mail from Dave Ley (IE.Supp)
(December 2, 2021) Letter from Ms. A. Pope, Coordinator, Zero Waste Hub Toronto (IE.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-141987.pdf>)
(December 1, 2021) E-mail from Wendy Quirion (IE.Supp)
(November 30, 2021) E-mail from Derek Eaton (IE.Supp)
(November 30, 2021) E-mail from Chris Gusz (IE.Supp)
(November 30, 2021) E-mail from Gabrielle Herman (IE.Supp)
(November 30, 2021) E-mail from Gyula Kovacs (IE.Supp)
(December 1, 2021) Letter from Rhonda Teitel-Payne Co-Coordinator, Toronto Urban Growers (IE.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142005.pdf>)
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(December 2, 2021) E-mail from Sylvia Grady (IE.Supp)
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(December 2, 2021) E-mail from Steve Rieck (IE.Supp)
(November 26, 2021) E-mail from Spencer Roth (IE.Supp)
(December 1, 2021) E-mail from Sonja Greckol (IE.Supp)
(November 30, 2021) E-mail from Chris, Sharon, and Jim Gusz (IE.Supp)
(December 1, 2021) E-mail from Sharon Bider (IE.Supp)
(November 30, 2021) E-mail from Sandra Lester (IE.Supp)
(December 1, 2021) E-mail from Avi D. (IE.Supp)
(December 1, 2021) E-mail from Dr. Deborah Nixon (IE.Supp)
(December 1, 2021) E-mail from Janet Senyshyn (IE.Supp)
(December 1, 2021) E-mail from Aaron Binder (IE.Supp)
(December 1, 2021) Letter from Geoff Kettel, Richard Nelson, Holly Reid, Najia Zewari, Executive Committee, Cycle Don Valley Midtown (IE.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142034.pdf>)
(December 1, 2021) E-mail from Debbie Green (IE.Supp)
(December 1, 2021) E-mail from Ryann Fineberg (IE.Supp)
(December 1, 2021) E-mail from Rocky Petkov (IE.Supp)
(December 1, 2021) E-mail from Benjamin Ian Vladimir Gernega (IE.Supp)
(December 1, 2021) E-mail from Colleen Lynch (IE.Supp)
(December 1, 2021) E-mail from Alex Ross (IE.Supp)
(December 1, 2021) E-mail from Daniel Urbanski (IE.Supp)

(December 1, 2021) E-mail from Ellery Williamson (IE.Supp)
(November 30, 2021) E-mail from Jacob Dawang, More Neighbours Toronto (IE.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142038.pdf>)
(December 1, 2021) E-mail from Michelle Reddick (IE.Supp)
(November 26, 2021) E-mail from Ria Prakash (IE.Supp)
(November 30, 2021) E-mail from Patrick McCluskey (IE.Supp)
(December 2, 2021) Letter from Keagan Gartz, Executive Director, Cycle Toronto (IE.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142064.pdf>)
(December 1, 2021) Letter from Carlyle Coutinho, Chief Executive Officer, Enwave Energy Corporation (IE.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142066.pdf>)
(December 1, 2021) E-mail from Kathy Glazier (IE.Supp)
(December 1, 2021) E-mail from JP Solmes, President and Chief Executive Officer, Trimac Renewable Royalties (IE.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142068.pdf>)
(November 30, 2021) E-mail from Joshua Armstrong (IE.Supp)
(December 2, 2021) Letter from Darnel Harris, Executive Director, Our Greenway Conservancy (IE.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142056.pdf>)
(December 1, 2021) E-mail from Rebecca McKenzie (IE.Supp)
(December 2, 2021) Letter from Kumsa Baker, Campaigns Director and Rosemarie Powell, Executive Director, Toronto Community Benefits Network (IE.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142060.pdf>)
(December 2, 2021) E-mail from Abhishek Chopra (IE.Supp)
(December 2, 2021) E-mail from Jeffrey Wyndowe (IE.Supp)
(December 1, 2021) E-mail from Eric Walberg (IE.Supp)
(December 1, 2021) E-mail from Jane Church (IE.Supp)
(December 1, 2021) E-mail from Gabriel Mandelbaum (IE.Supp)
(December 1, 2021) E-mail from Hamish Wilson (IE.Supp)
(November 30, 2021) E-mail from Jacob Dawang (IE.Supp)
(December 2, 2021) E-mail from Caterina Borracci (IE.New)
(December 2, 2021) Letter from Sheena Sharp, Co-Chair, Pathways Project (IE.New)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142082.pdf>)
(December 1, 2021) E-mail from Irene Alatzakis (IE.Supp)
(December 1, 2021) E-mail from Aliya Hirji (IE.Supp)
(December 1, 2021) E-mail from Daniel Gordon (IE.Supp)
(December 2, 2021) E-mail from Jay Scott (IE.Supp)
(December 2, 2021) E-mail from Anne Hogarth (IE.Supp)
(December 1, 2021) E-mail from Peter Rogers (IE.Supp)
(December 1, 2021) E-mail from Omkara Patel (IE.Supp)
(December 1, 2021) E-mail from Patrick McCartney (IE.Supp)
(December 2, 2021) E-mail from David Langille (IE.New)
(December 2, 2021) E-mail from Adria Budd Johnson (IE.New)
(December 2, 2021) E-mail from Christine Bear (IE.New)
(December 2, 2021) Letter from Sunday Harrison, Executive Director, Green Thumbs Growing Kids (IE.New)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142111.pdf>)
(December 2, 2021) Letter from Kathryn Tait, Climate Specialist, Toronto Environmental Alliance (IE.New)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142112.pdf>)
(December 2, 2021) E-mail from Hilda Swirsky (IE.New)
(December 2, 2021) Letter from Donna-Marie Batty, StopPlastics (IE.New)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142114.pdf>)
(December 2, 2021) Letter from Kathryn Tait, Climate Specialist, Toronto Environmental Alliance (IE.New)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142098.pdf>)

(December 2, 2021) Letter from David Langille, Chair, Pocket Change Committee (IE.New)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142099.pdf>)
(December 2, 2021) Letter from Lyn Adamson, Co-Chair, ClimateFast (IE.New)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142115.pdf>)
(December 2, 2021) Letter from Liz Addison, ClimateFast (IE.New)
(<https://www.toronto.ca/legdocs/mmis/2021/ie/comm/communicationfile-142100.pdf>)
(December 2, 2021) E-mail from Cathy Nosaty (IE.New)
(December 2, 2021) E-mail from Jean Paul Morgan (IE.New)
(December 2, 2021) E-mail from Irene Alatzakis (IE.New)
(December 2, 2021) E-mail from Sandra Lester (IE.New)
(December 2, 2021) Letter from Valerie Endicott (IE.New)
(December 2, 2021) Letter from Lee Adamson (IE.New)
(December 2, 2021) E-mail from Quentin Thwaites (IE.New)
(December 2, 2021) E-mail from Avet Khachatryan (IE.New)
(December 2, 2021) E-mail from Florence Foerster (IE.New)
(December 2, 2021) E-mail from Agnes Kramer-Hamstra (IE.New)
(December 2, 2021) E-mail from Cecilia Farrol (IE.New)

Communications (City Council)

(December 1, 2021) E-mail from Rob MacLellan (CC.Main)
(December 2, 2021) E-mail from Agnes Kramer-Hamstra (CC.Main)
(December 2, 2021) E-mail from Cecilia Farrol (CC.Main)
(December 2, 2021) E-mail from Shanaaz Sheriff (CC.Main)
(December 2, 2021) Letter from David Burman, Andrea Stephens, Paul Overy and Bjørnar Egede-Nissen, Drawdown Toronto (CC.Main)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142396.pdf>)
(December 2, 2021) E-mail from Tania Gill, on behalf of Music Declares Emergency Canada (CC.Main)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142397.pdf>)
(December 3, 2021) E-mail from Bob Carreau (CC.Main)
(December 3, 2021) E-mail from Julian Alvarez-Barkham (CC.Main)
(December 4, 2021) E-mail from Julie Mollins (CC.Main)
(December 5, 2021) E-mail from Dr. Erin Campos (CC.Main)
(December 6, 2021) E-mail from Claire Hao (CC.Main)
(December 10, 2021) E-mail from Brandon Evangelista (CC.Supp)
(December 10, 2021) Letter from Cynthia Hansen, Executive Vice President and President, Gas Distribution and Storage, Enbridge (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142480.pdf>)
(December 10, 2021) E-mail from Laura Stein (CC.Supp)
(December 12, 2021) E-mail from Javed Nissar (CC.Supp)
(December 12, 2021) E-mail from Garnet Lollar (CC.Supp)
(December 12, 2021) E-mail from Jacob Givertz-Steel (CC.Supp)
(December 12, 2021) E-mail from Justin Bull (CC.Supp)
(December 12, 2021) Letter from Geoff Kettel and Cathie Macdonald, Co-Chairs, Federation of North Toronto Residents' Associations (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142488.pdf>)
(December 13, 2021) E-mail from Aditya Trivedi (CC.Supp)
(December 10, 2021) E-mail from Ewa Lipsztajn (CC.Supp)
(December 13, 2021) Letter from Roselle Martino, Vice President, Public Policy, Toronto Region Board of Trade (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142590.pdf>)
(December 13, 2021) Letter from Jacob Dawang, More Neighbours Toronto (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142612.pdf>)
(December 14, 2021) Letter from Adam DaSilva, Executive Vice President, Stafford (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142575.pdf>)

(December 13, 2021) Letter from Fred Serrafiero, Senior Vice President - Principal, FRAM Building Group (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142663.pdf>)

(December 13, 2021) Letter from Bruno Glancola, Senior Vice President, Project Management, Innovation and Sustainability and Graem Armster, Director, Innovation and Sustainability, Deltera (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142679.pdf>)

(December 14, 2021) Submission from Kelly Graham, Planner, SvN Architects + Planners Inc. (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142716.pdf>)

(December 14, 2021) Letter from Anthony Fragale, Director of Construction, Greenpark Group (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142717.pdf>)

(December 14, 2021) Letter from Jeffrey Ranson, Sr. Director, Energy, Environment, and Advocacy, BOMA (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142718.pdf>)

(December 14, 2021) E-mail from Nicole Corrado (CC.Supp)

(December 14, 2021) Letter from Tam Goossen and Carolyn Egan, Co-Chairs, Good Jobs for All (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142720.pdf>)

(December 14, 2021) Submission from Andria Babbington, Toronto and York Region Labour Council (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142688.pdf>)

(December 14, 2021) Letter from Myer Godfrey, Yorkwood Building Group (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142724.pdf>)

(December 13, 2021) Letter from Marco De Simone, President, Royalpark Homes Inc. (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142692.pdf>)

(December 13, 2021) Letter from Paul De Berardis, Director of Building Science & Innovation, and Richard Lyall, President, The Residential Construction Council of Ontario (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142693.pdf>)

(December 14, 2021) Letter from Jeremy Alter, The Goldman Group (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142694.pdf>)

(December 14, 2021) Letter from Jorge Godinho, President, Canadian Concrete Forming Ltd. (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142730.pdf>)

(December 14, 2021) Letter from Kevin Lockhart, Efficient Buildings Lead, Efficiency Canada (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142731.pdf>)

(December 14, 2021) Letter from Darius Rybak, Vice President, Operations, High Rise, Aspen Ridge Homes (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142807.pdf>)

(December 14, 2021) Letter from Samantha Dunlop, Manager, Chestnut Hill Developments (CC.Supp)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142808.pdf>)

(December 15, 2021) Letter from Ms. A. Pope, Coordinator(Volunteer), Zero Waste Hub Toronto (CC.New)
(<https://www.toronto.ca/legdocs/mmis/2021/cc/comm/communicationfile-142824.pdf>)

(December 15, 2021) E-mail from Patricia Hawk (CC.New)

(December 15, 2021) E-mail from Marta Stares (CC.New)

Speakers

Hilda Swirsky
Susan McMurray, Toronto and York Region Labour Council
Lyn Adamson, ClimateFast
Kathryn Tait, Toronto Environmental Alliance (TEA)

Samantha Green
Bryan Purcell , The Atmospheric Fund
Aaron Binder, Segway of Ontario
Sue Dexter, Harbord Village Residents' Association
Shelagh Pizey-Allen, TTCriders
Harold B. Smith
Robert Stambula, Harbord Village Residents' Association
Sharon Bider
John Stephenson, Citizens Climate Lobby
Sheena Sharp, Toronto 2030 District
Liz Addison
Lowell Lo
Julius Lindsay, David Suzuki Foundation
Carol Essex
Rebecca Weigand
Gabiella Kalapos, Clean Air Partnership
Julia Morgan
Martin Green
Paul Antze
Colleen Lynch
Valerie Endicott
Anne Keary
Sunday Harrison, Green Thumbs Growing Kids
Gord Rand
Manna Wong
Chris Ballard, Passive House Canada
Jennifer Knoch
Lee Adamson
Mike Yorke, Carpenters' District Council of Ontario
Cathy Nosaty
Jack Gibbons, Ontario Clean Air Alliance
Will Di Novi
Mary Helen Spence
Geoff Kettel, Federation of North Toronto Residents' Associations (FoNTRA)
Beverley Thorpe, Parks not Planes
Laura Lindberg
Kevin Rupasinghe, Cycle Toronto
Kumsa Baker, Toronto Community Benefits Network (TCBN)
Diane Jameson, Parks Not Planes, BQNA
Dianne Saxe, Green Party of Ontario
Brian Iler, Parks not Planes
David Burman
Abhishek Chopra
Councillor Gord Perks