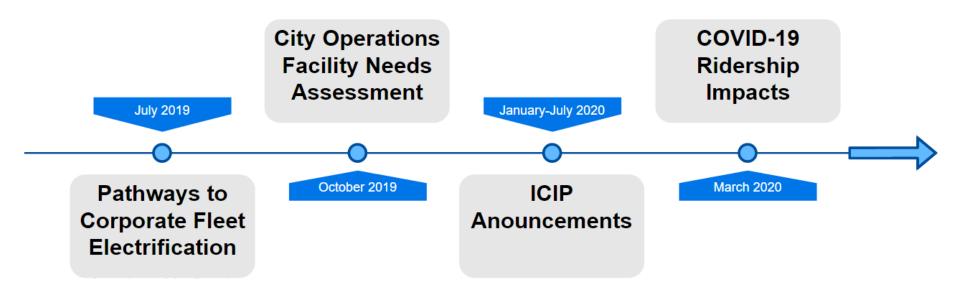


City Operations Campus – Part 1: Transit Electrification

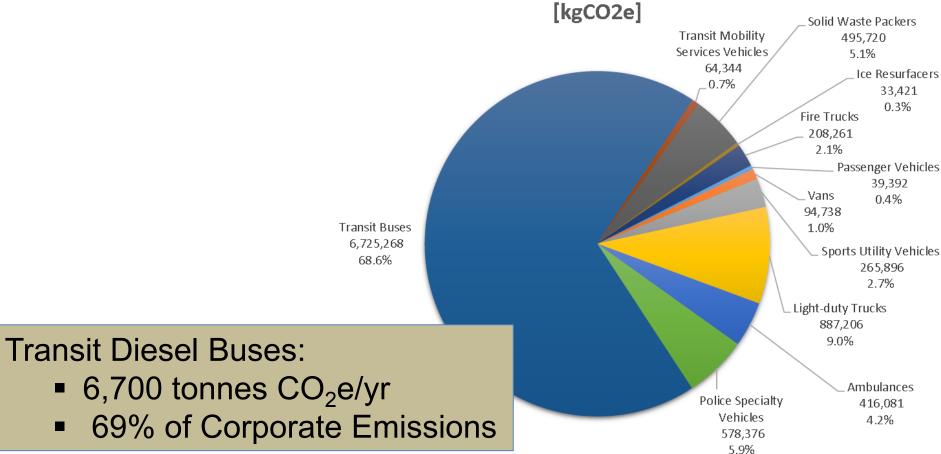
September 8, 2020 Committee of the Whole

Bryan Ho-Yan, M.A.Sc., P.Eng., CEM, Manager, Corporate Energy and Climate Change



Pathways to Electrify Fleet





City Operations Facilities Needs Assessmer

October 21, 2019 – That staff be directed to proceed with planning and design for a consolidated City Operations Campus consisting of operations facilities for Transit, Operations, Fleet Maintenance, and Corporate Building Maintenance located on the City owned Dunlop Drive property and that the final decision on a new city operations campus be determined following the presentation of a detailed business case and staging plan being provided to Council.

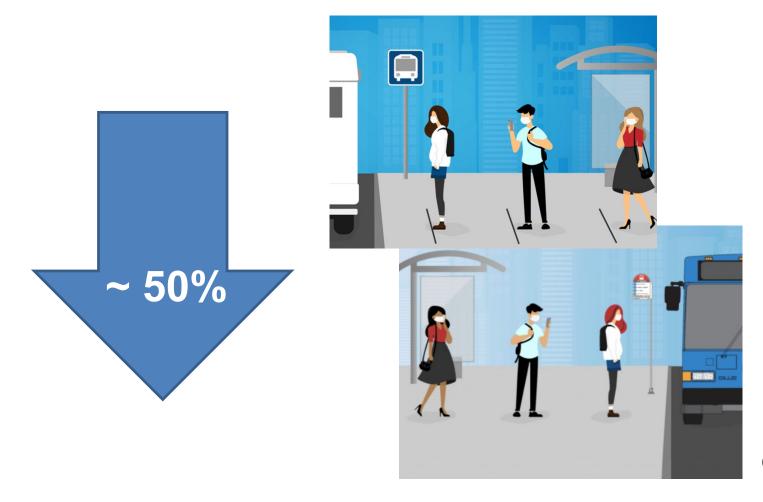


Related ICIP Funding Breakdown

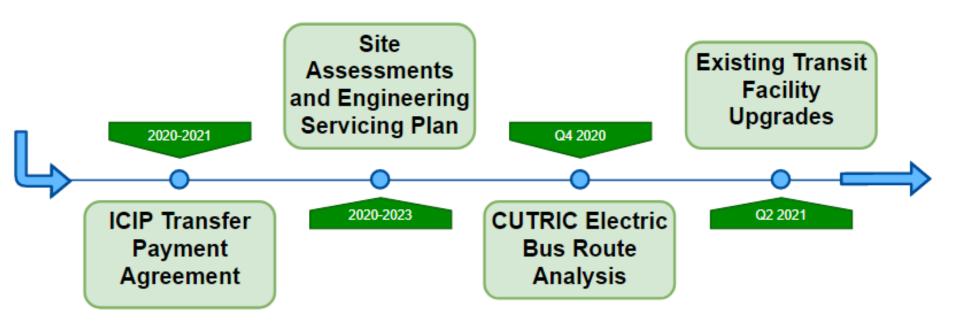
FUNDING APPLICATION	FEDERAL CONTRIBUTION	PROVINCIAL CONTRIBUTION	MUNICIPAL CONTRIBUTION	TOTAL ESTIMATED PROJECT BUDGET
ICIP-GUE-01 BUS FLEET EXPANSION	\$9,828,000	\$8,190,000	\$22,932,000	\$40,950,000
ICIP-GUE-03 NEW GUELPH TRANSIT STORAGE FACILITY	\$18,914,280	\$15,756,418	\$52,115,302	\$86,786,000
ICIP-GUE-04 BUS FLEET ELECTRIFICATION	\$12,012,000	\$10,008,999	\$29,009,001	\$51,030,000
TOTAL	\$40,754,280	\$33,955,417	\$104,056,303	\$178,766,000

- Federal and Provincial Government contribution:
 - Total estimated cost 42%
 - New electric transit facility 40%

COVID-19 Ridership Impacts

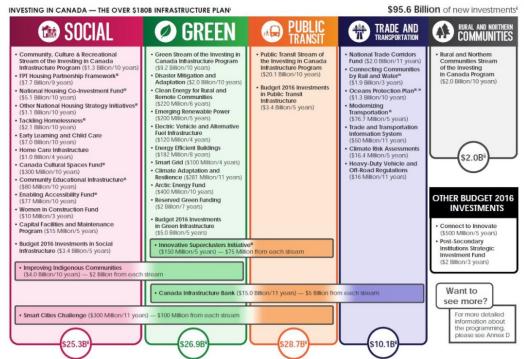


Short-Medium Term



Investing in Canada Infrastructure Program-ICIP

- Transfer payment agreement
 - Receive draft
 - Review and negotiation



Existing Transit Facility Upgrades

- Moderate electrical upgrades
- Install up to 4x electric bus chargers (temporary)
- Preparation for lifecycle replacement with electric bus



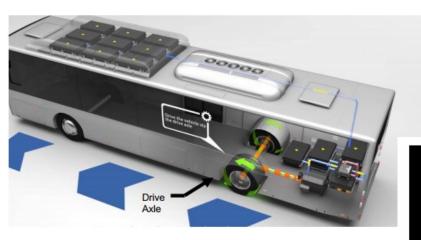
New Electric Transit Facility

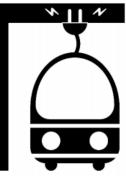
- Environmental planning
- Engineering services
- Site layout (City Operations Campus)
- Concept facility design (Electric Transit Facility focus)

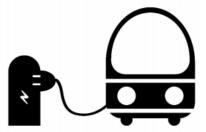


Electric Transit Bus Fleet

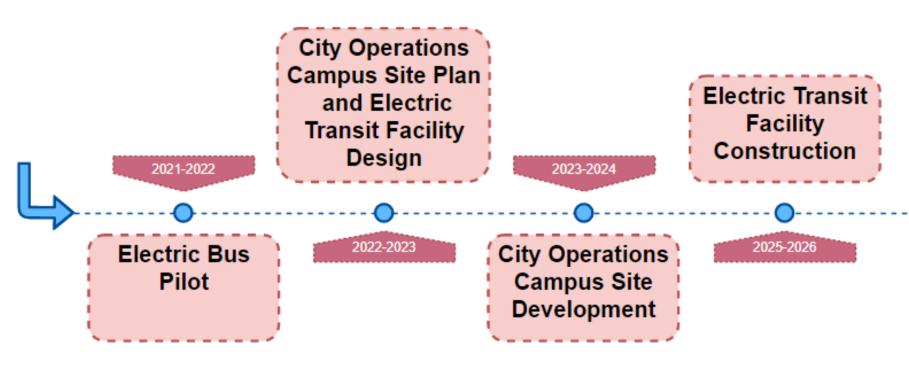
- Detailed route analysis
 - Bus battery sizing
 - Electrical charging infrastructure requirements







Long Term





Thank you