ELECTRIFICATION OF METRO FLEET

Metro Fleet

Total Metro Fleet as of 4/1/19: **3,592** Fleet Light & Heavy
Assumption: Non-emergency, licensed vehicles total is **1,130**

Of **1,130** vehicles:
- 1% is Zero Emissions (13 LEAFs)
- 4% is Low-Emissions (43 hybrids + 1 CNG)

Of the **1,130** total vehicles:
- 341 Fleet Heavy
- 789 Fleet Light

Emergency Vehicles total is **1,521** (sedans, trucks, vans):
- 104 hybrids

Ordinance Goals

Below is a breakdown of the number of EVs necessary to purchase to accomplish Ordinance Goals if the legislation is for Fleet Light only (total of 789):

2025: 197 new EVs
2030: 197 new EVs
2035: 394 new EVs (197 + replacements)
2040: 316 new EVs (119 + 197 replacements)
2045: 276 new EVs (79 +197 replacements)
2050: 197 new EVs (197 each year replacements)

Cost Estimates: Fleet Light Only

FLEET LIGHT ONLY	Year 2025	Year 2030	Year 2035	Year 2040	Year 2045	Year 2050
Vehicles Needed	197	197	394	316	276	197
Electric Vehicles Cost	$6,895,000	$6,895,000	$13,790,000	$11,060,000	$9,660,000	$6,895,000
Infrastructure Costs	$1,019,475	$1,019,475	$2,038,950	$1,635,300	$1,428,300	$1,019,475
Maintenance Costs	$133,960	$133,960	$267,920	$214,880	$187,680	$133,960
Warranty	$394,000	$394,000	$788,000	$632,000	$552,000	$394,000
TOTAL	$8,442,435	$8,442,435	$16,884,870	$13,542,180	$11,827,980	$8,442,435

Challenges

- Availability of parts and labor
- 100 Metro eligible vehicles are take-home vehicles so charging at home will need to be considered
- Mileage range may be limiting to some employees' work requirements
- EVs Price increasing due to demand