

CITY OF CHARLOTTESVILLE · PUBLIC WORKS

Fleet and equipment replacement program

Phased EV transition

Charlottesville Council Work Session 11.2.26



Fleet program and replacement policy

Fleet Maintenance has 12 full-time positions and maintains about 710 vehicles and pieces of equipment

Condition, safety, reliability, service needs, and cost guide replacement decisions

General light-duty vehicles receive review at 10 years or 150,000 miles

Retain serviceable assets, right-size vehicles, and reassign underused equipment



Current EV inventory

Department or service	EVs
Capital Development	1
Facilities Maintenance	3
Fire	1
Neighborhood Development Services	1
Office of Sustainability	1
Parks & Recreation	1
Police	2
School buses	2
Transit buses	2
Total	14

The EV replacement schedule

The original FY26–FY31 capital plan identified 45 potential EV replacements

Updated FY28–FY30 projections identify 24 EV acquisitions

Potential EV candidates remain in service while safe, reliable, and in good condition

Fleet considers EV options when replacement is warranted



Progress in public safety and buses

Three take-home public safety EVs entered service this year

Two electric school buses in service since January 2026

Two Transit buses delivered, with service anticipated in fall 2026

Transit chargers complete. Two more buses expected by April 2027



Climate goals and operational needs

Community-wide goals: 45% below 2011 emissions by 2030 and carbon neutrality by 2050

Replacement timing reflects each vehicle's condition, workload, and useful life

EVs must meet daily assignments and charging needs, including for specialized equipment

Hybrid or fuel-efficient conventional replacements remain options when needed



Projected EV purchases

Fiscal year	Vehicles	Purchase cost
FY28	9	\$456,000
FY29	10	\$483,000
FY30	5	\$265,000
Total	24	\$1,204,000

Projected EV vehicle purchase costs. Charging costs are separate.

FY28 vehicle and equipment funding

FY28 request	Projected cost
Nine EVs	\$456,000
Other vehicles and equipment	\$2,438,000
Total vehicle and equipment requests	\$2,894,000

Vehicle and equipment requests only. Charging CIP is separate.



Comparing vehicle costs

Passenger EV: approximately \$1,500 more than a comparable conventional vehicle

Large electric SUV: approximately \$18,000 more

Lower energy and maintenance costs may offset part of the investment

Savings are not a requirement for every EV purchase

Proposed FY28 charging investment

\$390,000 requested for additional fleet charging

Approximately \$225,000 for 17 Level 2 chargers

Approximately \$165,000 for one fast charger



Recommendation and Council discussion

Continue the phased fleet and equipment replacement program

Coordinate vehicle delivery with charging readiness and annual funding

Update schedules as operating experience grows and pursue outside funding

