

Fairfax County Department of Vehicle Services Response to Questions from
December 5th JET Transportation Sub-committee

1. What is the current plan to acquire cleaner FFX county staff and other vehicles?

The current plan is aligned with the Operational Energy Strategy approved by the Board of Supervisors in July 2018. Staff is reviewing options that support a quicker transition to electric or plug-in hybrid vehicles based on recent feedback from the Board of Supervisors at the Environmental Committee Meeting on February 4, 2020.

Replacement plans are different for different types of vehicles. For example, approximately 4 percent of the passenger vehicle fleet (or approximately 25 vehicles) is replaced annually based on a three year analysis. When referencing the light vehicle count in response to question four, only 628 passenger vehicle may be replaced with electric. Currently approximately 50 percent of all passenger fleet replacement vehicles purchased by the Department of Vehicle Services Replacement Fund are hybrids. The County is transitioning to 100 percent of all passenger fleet replacement vehicles purchased by the Department of Vehicle Services Replacement Fund being hybrids or electric.

The number of electric vehicles, as a percent of the total replaced, will increase as electric vehicle charging infrastructure and stations are in place to provide power to the units. The largest unknown factor in projecting future replacement rates is the quantity and cost of units the major manufacturers produce annually. In addition, only small four door sedans or small utilities (SUVs) are available in an electric model currently. The majority are not manufactured in the United States and the price point is high. Also, the United States manufacturers are no longer producing four door sedans and have transitioned solely to SUVs and pick-up trucks.

2. For all of the above, what is the mix of fuels being considered?

The Department of Vehicle Services (DVS) is primarily focused on electrification.

The County fleet is comprised of 136 hybrid units to include 25 unmarked responder hybrids for the Police Department. We continue to analyze all alternative fuel sources to ensure the County fleet's operational requirements are met.

The County's fleet of medium- and heavy-duty trucks meet fuel efficient and greenhouse gas emission standards developed by the U.S. Department of Transportation and the Environmental Protection Agency. Diesel Exhaust Fluid

(DEF), a liquid used to reduce the amount of air pollution created by a diesel engine, is available at strategically located DVS fuel islands.

3. What is the current plan for providing alternative fuel infrastructure for these cleaner vehicles?

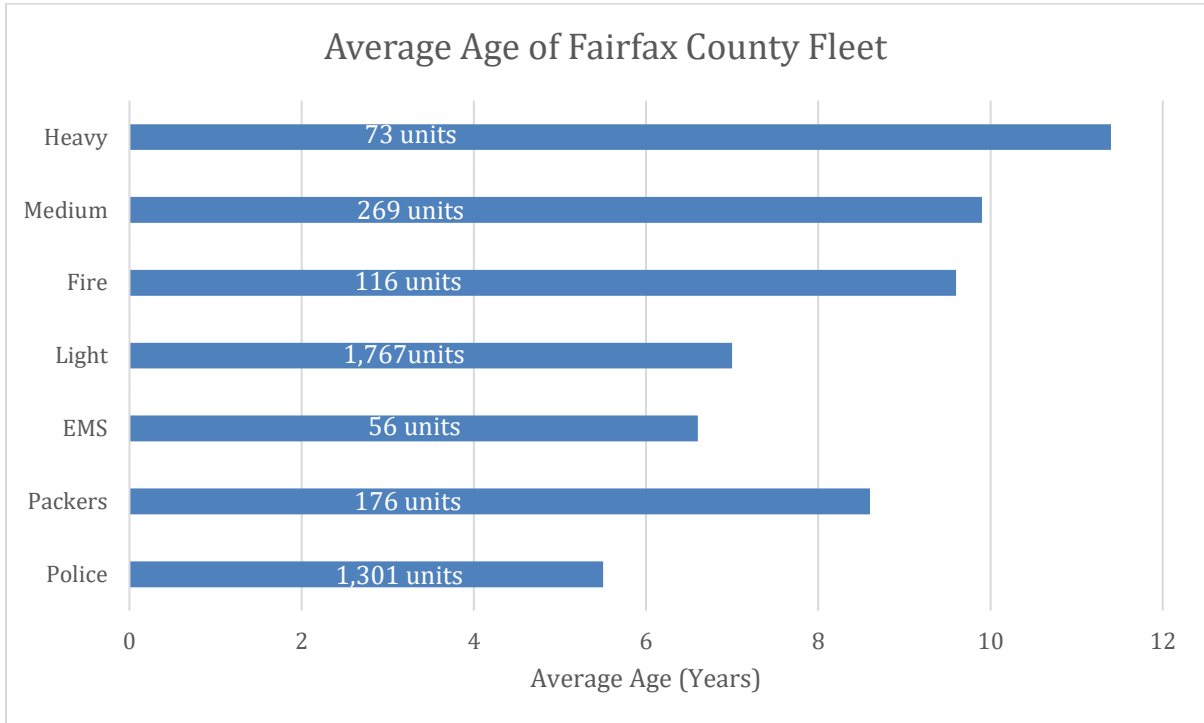
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The Board of Supervisors approved \$750,000 to support the first year of a two-year plan to create Electric Vehicle ready charging stations at County Facilities at FY2019 Third Quarter Review. Funding will support up to 40 EV ready charging stations at up to 10 County sites. The stations will be available for fleet vehicles.

Fairfax County issued a Request for Proposal for Level II Electric Vehicle Charging System (Commercial) on October 11, 2019. Responses were due on November 13, 2019, and the Selection Advisory Committee is reviewing all responses received.

Where possible, Fairfax County is including basic infrastructure through conduit installations and assignment of power in project documents for renovations and expansions of existing County facilities and new County facilities to ensure electric vehicle charging station requirements are properly scoped.

4. Could you please provide the ages FFX County vehicles?



Heavy: specialized equipment such as dump trucks, tractors and wreckers

Medium: ½ and ¾ ton pickup trucks, cargo trucks, and 1 ton utility vans

Fire: fire trucks, pumpers, and engines

Light: compact and midsize cars and vans

EMS: ambulances

Packers: refuse packer trucks

Police: police package motorcycles, sedans and SUVs.

5. What are the replacement schedules FFX County vehicles?

Vehicles and equipment must meet age and mileage requirements (when applicable).

Examples of Replacement Criteria for Vehicles in the Replacement Reserve

	Age (Years)	Miles
Mid-Size Sedans	8	110,000
Police Package Sedans	7	100,000
Mini Pickups/Vans	8	110,000
½ - 1 Ton Pickup/Van/4x4	8	150,000

Examples of Other Replacement Criteria

	Age (Years)	Miles
Ambulance	10	N/A
Heavy Duty Dump Truck	9	135,000
Transfer Tractor	10	300,000
Pumpers/Ladder Trucks/Air & Light	12 / 17	N/A
Trailer	12	N/A