



Electric Vehicle (EV) Charging Fee – Requested Ordinance

Promoting Sustainable Transportation and
Encouraging Electric Vehicle Adoption

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Purpose

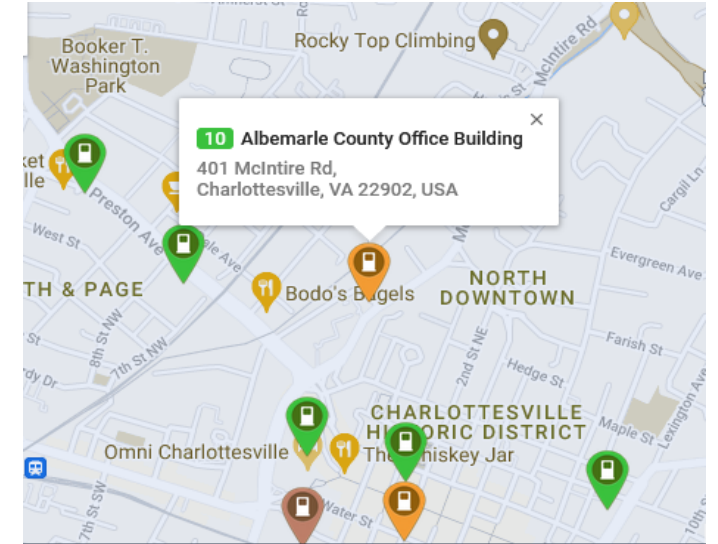
Recommend approval of an Electric Vehicle (EV) charging fee ordinance. The proposed ordinance would be to recoup a portion of the operating costs of the County's EV charging stations.

Retail fees would not apply to the County's fleet of electric vehicles.



Introduction

- To encourage use of electric vehicles (EVs), Albemarle County added thirteen EV charging stations at COB McIntire and COB 5th Street in 2021.
- The initial project cost, including the installation and a 5-year equipment lease and maintenance contract, totaled approximately \$333,008:
 - \$232,500 came from a Dominion grant rebate
 - \$100,508 came from Board dedicated climate action funds





Types of Chargers



Level 2 Charger – Adds about 39 miles of range per hour. It uses either a commercial EV level 2 charging station or a 240V outlet. These are the most common type of chargers.

Level 3 Charger – Adds up to 100 miles of range in 30 minutes. Can only be done at a commercial level 3 DC fast charging station. These are the most popular chargers at the County Office Buildings, providing 80% of the charging.



Environmental Impact

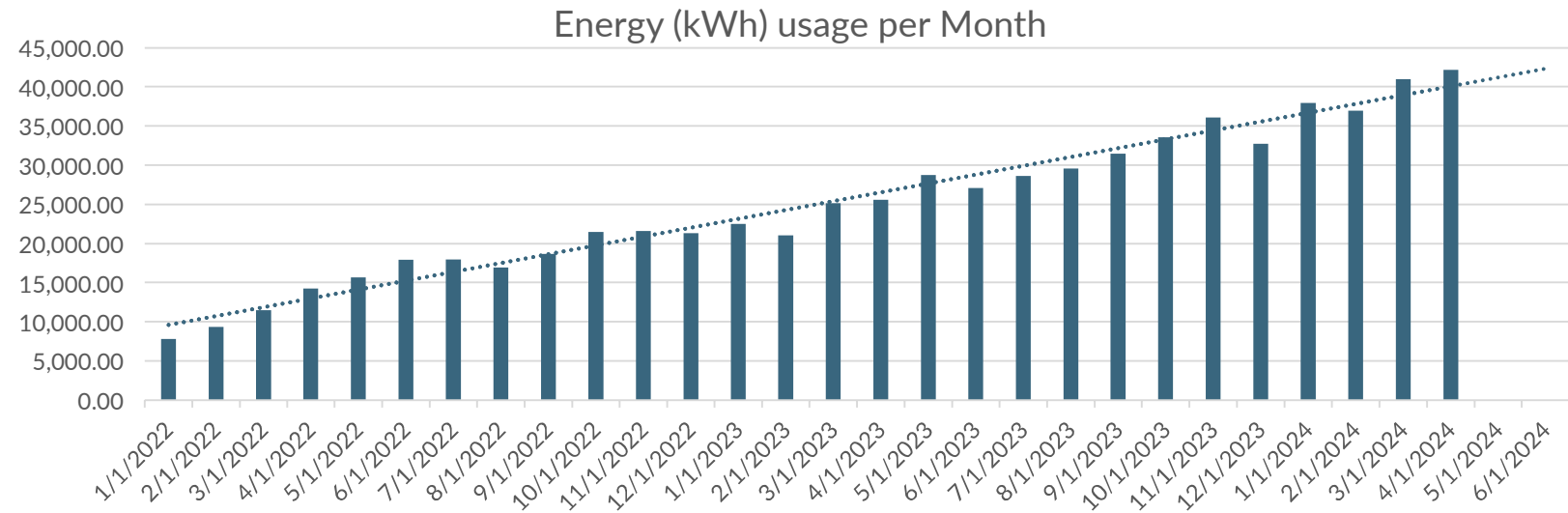


- The County has hosted over 8,000 unique drivers in the last 3 years and dispensed over 771 megawatt hours of electricity.
- This equates to an estimated savings of 528 metric tons of greenhouse gas emissions, which is equivalent to approximately 59,430 gallons of gasoline or 1,350,791 miles driven by an average ICE-powered vehicle.



Electric Vehicle Charging Use

- Demand is increasing, and the County is seeing an average usage of over 40 MWh a month at an average cost of \$5,000 per month (\$60,000/yr).





Virginia Code

- When the EV chargers were installed, the Virginia code was written such that state agencies and localities were not allowed to assess fees for the distribution of electricity.
- As a result, the EV chargers have been a free service to the public.
- Virginia code § 2.2-614.5 was amended to allow any state government entity, as well as any locality, park authority, public institution of higher education, or school board, may operate retail fee-based EV charging infrastructure on its property.



Jurisdictional

- Three jurisdictions in Virginia have established EV charging fees since the code revision:
 - Arlington County
 - Charges \$0.1452 per kilowatt hour
 - Fairfax County
 - Charges \$0.30 per kilowatt hour; and, after a 10-minute grace period once the vehicle is fully charged but still plugged in, a dwell-time fee of \$2.00 for every hour is assessed and capped at \$25
 - Loudon County
 - Charges a fee of \$2.10 per session



Factors Affecting Operating Costs of the EV Chargers

1. Electrical Cost

- Dominion rate schedule
 - Demand versus non-demand usage
 - Summer versus winter fees

2. Lease & Maintenance Fees

- EV charger station installation included a pre-paid lease and maintenance contract
- The current lease is set to expire in June of 2026. A new lease will add approximately \$4,500 per month to the operating costs

3. Administrative Fees

- ChargePoint charges a 10% fee on all transactions



Proposed Charging Fee Breakdown

Charging Rate Input	Cost
Electric Rate, per kWh	\$0.132
Lease & Maintenance contract	\$0.000
ChargePoint Administrative Fee, per kWh	\$0.015
Total Proposed Per-kWh rate	\$0.147

Staff also recommends a dwell-time fee of \$2.00 per hour, capped at \$25.00 per session, that applies when the EV's battery is fully charged but the vehicle remains connected to the charging station after a 30-minute grace period expires.



Fees at Common EV Charging Networks around Albemarle

- **AmpUp** (Level 2 charging)
 - \$1.80 per hour, \$0.18 per hour service fee, and a \$0.30 processing fee. Converted to per kWh equates to approximately \$0.32 per kWh.
- **Blink** (Level 2 charging)
 - \$0.49 per kWh
- **EVGo** (Level 3 charging)
 - Non-members pay \$0.34 per kWh from 12AM to 8AM, \$0.40 per kWh 8AM to 2PM, and \$0.45 per kWh from 2PM to 9PM
 - Members receive discounts depending on the level of subscription



Staff Recommendation

Staff recommends that the Board of Supervisors adopt a two-part fee to be paid by the public effective July 1, 2024, including county employees charging their privately-owned vehicles, for the charging of electric vehicles (EVs) at county-owned charging stations, consisting of (1) a charge of \$0.147 per kilowatt hour and (2) a dwell- time fee of \$2.00 per hour, capped at \$25.00 per session, that applies when the EV's battery is fully charged and a 30-minute grace period has expired.