EV Update

Sustainability and Fleet

Fleet Electrification Context

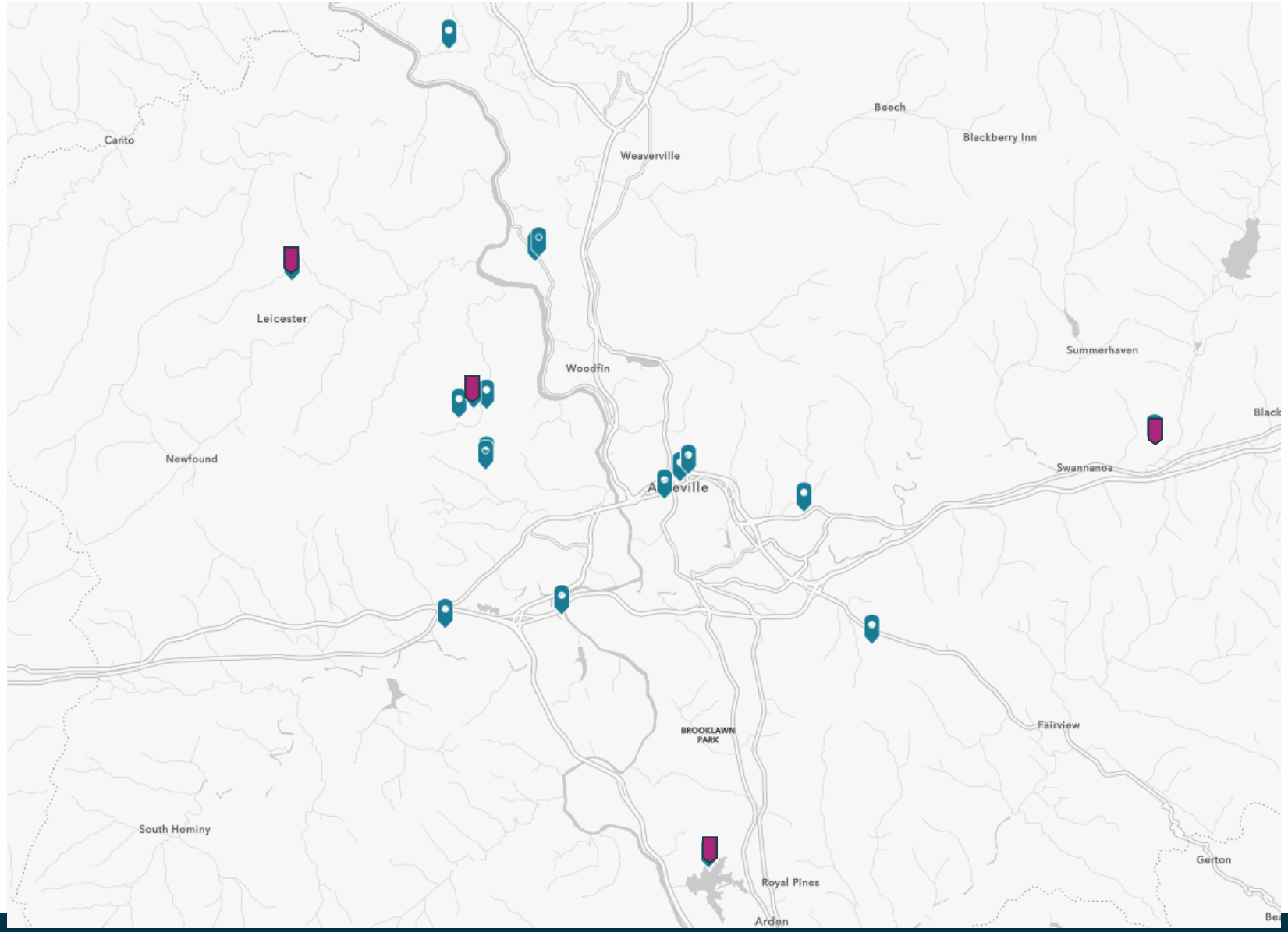
- Strategic Plan goal:
  - 25 publicly-accessible EV chargers by 2030
- 100% Renewable Energy Goal
  - 100% County operations renewable by 20
- Sustainable Fleet Policy (2020)
  - Standards for fleet procurement encouraging shift to phase out fossil fuels
- LEED Green Building Resolution (2020)
  - New construction and major renovations to include EVSE



EVSE Current Inventory

Location Name	Ports	Public or Fleet
49 Woodfin Place	2	Fleet
Firing Range	4	Fleet
Buncombe County Landfill	2	Fleet
Sheriff's Office	5	Fleet
Buncombe County Sports Park	1	Fleet
EMS Castle	5	Fleet
College Parking Deck 3rd floor	14	Fleet
Transfer Station	3	Fleet
General Services Complex	2	Fleet
40 McCormick	1	Fleet
Ag and Land Resources	1	Fleet
AC Reynolds High School	1	Fleet- Sheriff
College Parking Deck 1st floor	6	Public
Coxe Parking Deck	4	Public
Land of Sky Offices	3	Public
East Asheville Library	2	Public

EVSE Current Map

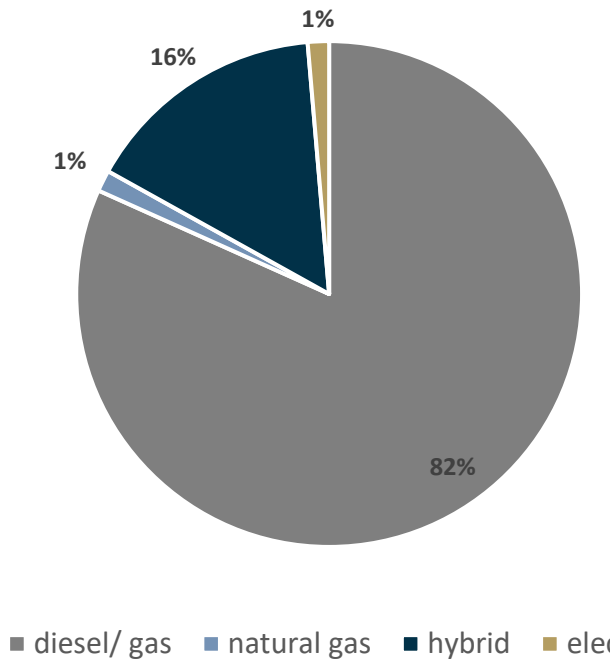


- Existing
- Coming soon

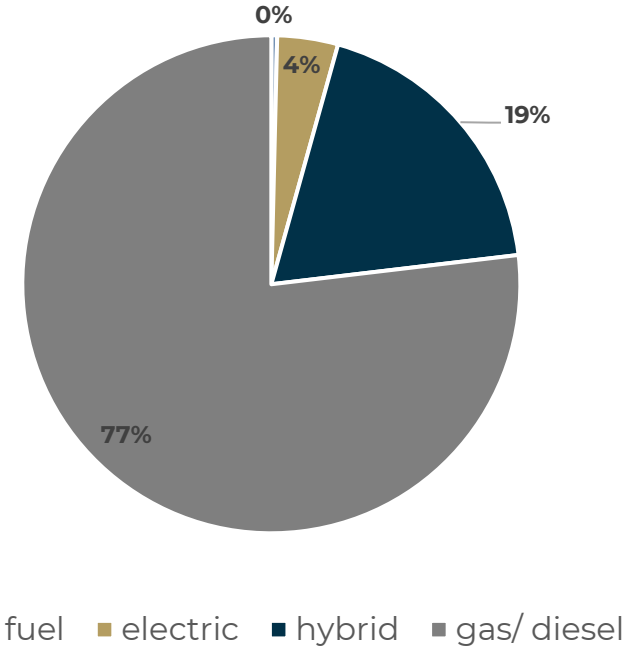
Current Fleet Overview

- 532 Fleet Vehicles
  - 375 Public Safety
  - 35 Landfill/Transfer Station
  - 122 General Government
  - Excluding Mountain Mobility
- 2 Alternative Fuel Vehicles
- 21 Electric Vehicles
- 100 Hybrid Vehicles

2023 Fleet Fuel Type



2026 Fleet Fuel Type



EVs for School Resource Officers!

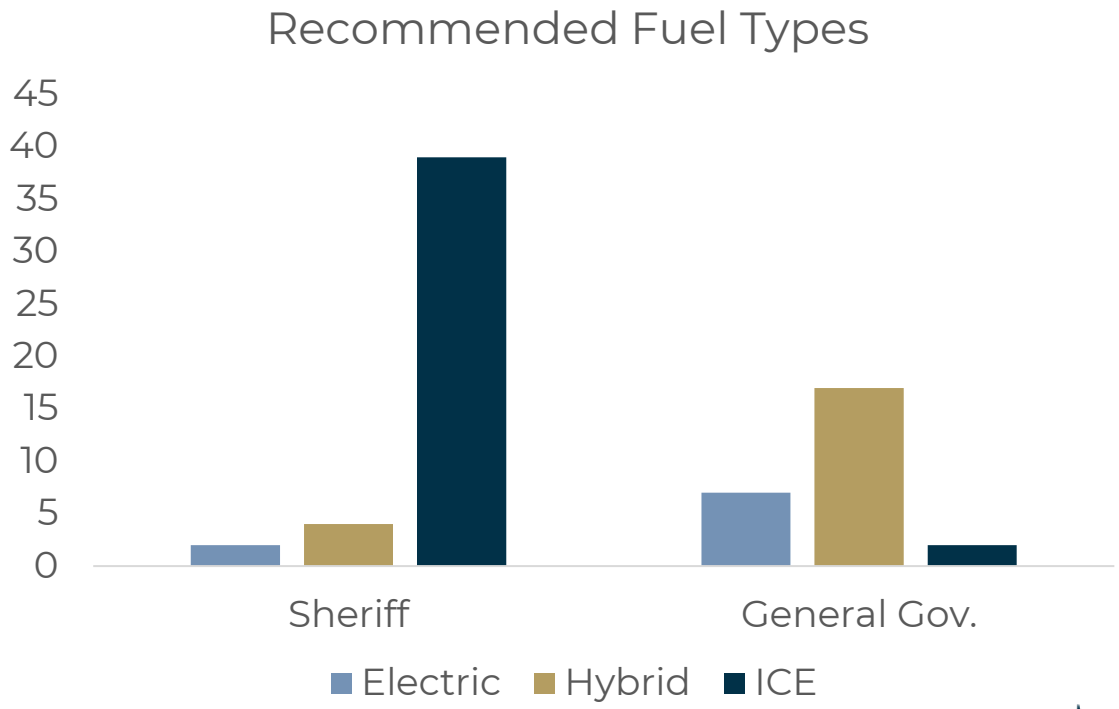
- Fleet hosted a demo day for the 1st pursuit-rated EV, Chevy Blazer
- Sheriff Office will pilot two for SROs
- EV chargers installed at those schools



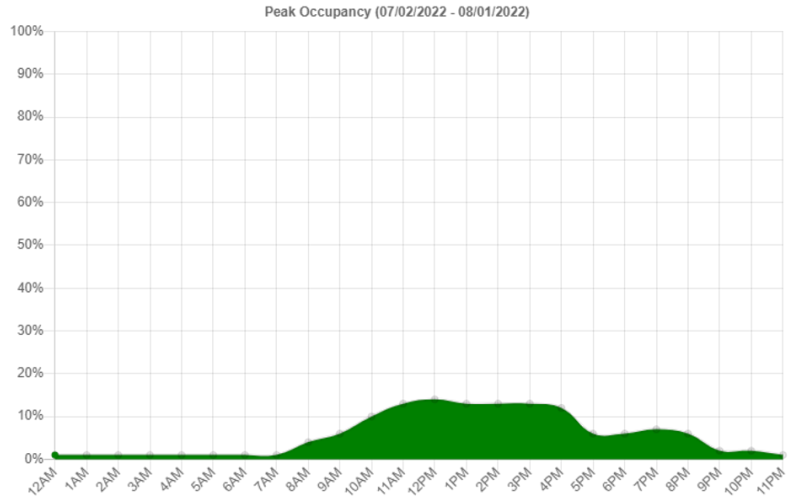
FY 27 Vehicle Requests

Process

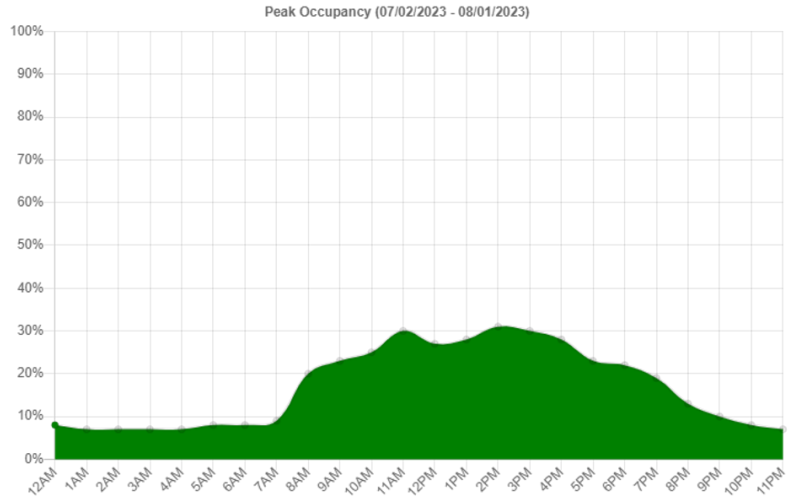
1. Fleet Manager recommends replacements based on vehicle age, mileage, and function
2. Department heads submit requests for *new* vehicles
3. VET reviews recommendations and assign vehicle type
   i. Justification for ICE : pursuit-rated or superduty service truck
   ii. Ongoing reliability issues with pursuit-rated hybrid SUV
4. Procurement



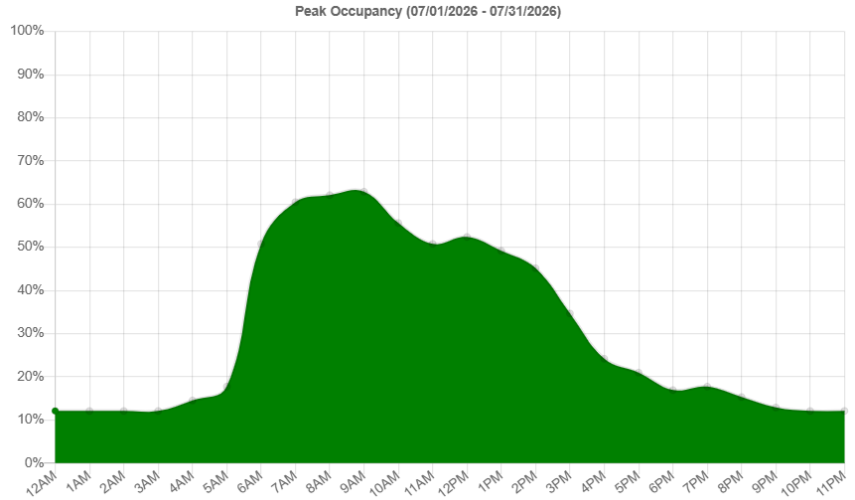
College Deck Charger Occupancy



July 2022



July 2023



July 2026

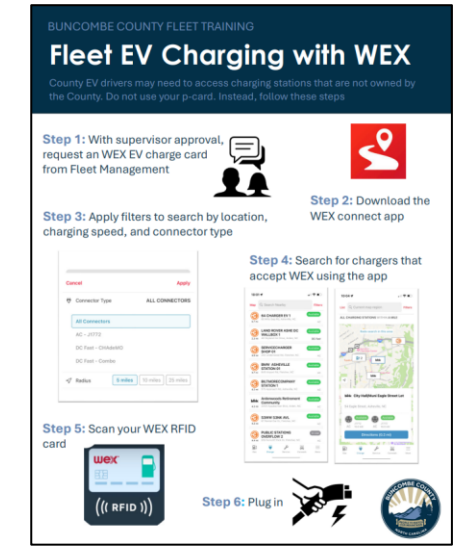
College Deck EVSE Project

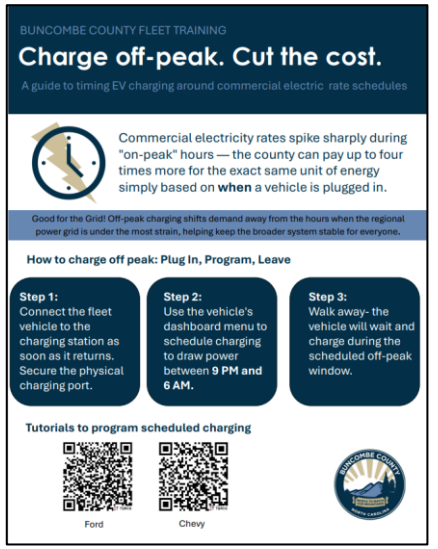


- 12 level-2
- 1 dual-port DCFC (180 kW)
- Pursing federal tax rebate and Duke EV Charger prep credit
- Fleet only, password protected

EV Driver Training







Next Steps

- Advance the 27 planned ports across 8 sites
- Continue tracking relevant legislation, peer activity, and EV market changes
- Ongoing training
- Assess demand management opportunities

Location Name	Ports	Public or Fleet
Skyland Library	2	Public
EMS East	2	Fleet
Erwin High School	1	Fleet (Sheriff)
Leicester Library	2	Public
BC Sports Park (near concessions)	2	Public
Coxe Ave Parking Deck	12	Fleet
EMS West	2	Fleet
BC Sports Park- New Rec Center	4	Public

Questions?