CURRENT FLEET STATUS

Total vehicles: 560
• Sheriff: 302
• General Government: 239
• Ambulances: 19
Avg age: 7.3 years
Avg mileage: 111,000 miles
SUSTAINABLE FLEET POLICY

- Goal is to transition to low/zero emission vehicles
- Aligns fleet procurement with strategic goals
- All County facility renovations or new construction projects will include EV charging infrastructure
- Proposed vehicle purchases will be assigned to a tiered system by Fleet Management
  - Tier I – Zero emission vehicle
  - Tier II – Alternative fueled internal combustion engine
  - Tier III – Hybrid internal combustion engine
  - Tier IV – Conventional internal combustion engine – Gasoline
  - Tier V – Conventional internal combustion engine – Diesel
CURRENT STATUS OF COUNTY EVSE

- 32 Chargers; 10 locations (4 public, 6 fleet only)
- Multiple charging models
- Rapidly evolving markets and technologies
- Limited parking and electrical capacity

COUNTY-OWNED CHARGING STATIONS

Charge Time Comparison

<table>
<thead>
<tr>
<th>Charging Level</th>
<th>Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC Fast: 50 kW - 350 kW</td>
<td>15-30 minutes</td>
</tr>
<tr>
<td>Level 2: 7.2 kW</td>
<td>5-6 hours</td>
</tr>
<tr>
<td>Level 1: 1.4 kW</td>
<td>20 hours</td>
</tr>
</tbody>
</table>

- Existing
- Feasible
- Potential
More public EVSE coming:
- Tesla opening chargers
- NEVI ($5B)
- IRA tax credits driving private investment
  - Walmart, Shell, Pilot, BP
  - Joint Manufacturer Venture
- VW Funding
- DEQ funding transportation project
- Duke Home Charger Credit
EV INFRASTRUCTURE SAMPLE PROJECTS

Project: College Deck
Estimated Project Cost: ~$425K
Est. Utility rebate: ~$36K; Est. Federal Rebate: ~$116K
Total project cost: ~$273K
Level-2 chargers: 28
DCFC: 1

Project: Land Of Sky Offices (completed)
Project Cost: ~$16K
Grant award: $15K
Total project cost: ~$1K
Level-2 chargers: 3
OPPORTUNITIES

- Policy
- New pursuit rated EVs coming to market
- Rebate and incentive programs
From NC DAQ
Electric School Buses

• First Electric School Bus in NC-Cherokee (NC VW settlement funds)
  • 6 Electric Buses Now
  • Range: 120-130 miles
  • Diesel vs Electric: $800-$1,000 per month diesel fuel per bus vs $400 per month to charge one bus, reduced maintenance $
  • Diesel bus is 4X the cost of electric-cost effective with grant dollars
  • Biggest challenges: Electrical equipment upgrades, supply chain

• EPA Clean School Bus Program
  • BIL-$5 billion over 5 years. $500 million per year (1/2 for zero emission buses)
  • Low income and tribes-priority
  • Grants and Rebate Programs
    • Buncombe County Schools Application pending (5 bus replacements)

• Vehicle to Grid (V2G) Technology
  • Climate Resiliency
QUESTIONS?

DON'T TELL THEM THE DOG ATE YOUR HOMEWORK. JUST SAY THERE WERE SUPPLY CHAIN ISSUES.