

COG ELECTRIC VEHICLE-RELATED POLICIES AND INITIATIVES

Leah Boggs
COG Environmental Planner

ACPAC
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Background

- COG and TPB support policies to increase use of alternative fuel vehicles, specifically including electric vehicles (EVs)
- State and local jurisdictions are planning for EVs

TPB Support for EVs

Regional Transportation Priorities Plan

Near-term Strategy 3: Support And Promote EV

Make electric vehicles more convenient to use and encourage more consumers and businesses to purchase such vehicles.

TPB Support for EVs

- Department of Transportation Planning (DTP) staff provides assistance and data to Department of Environmental Programs (DEP) staff regarding EV/GHG planning activities
- Commuter Connections' Employer Outreach program considers whether an employer provides electric charging stations, among many other services offered, when determining levels of employer effort

Agency-Wide Support for EVs

Multi-Sector Working Group Recommendations

- Increase alternate fuel vehicles in public sector fleet (Region)
- Promote zero emissions vehicles in private sector fleet (Local)

COG Region Forward Climate Goal

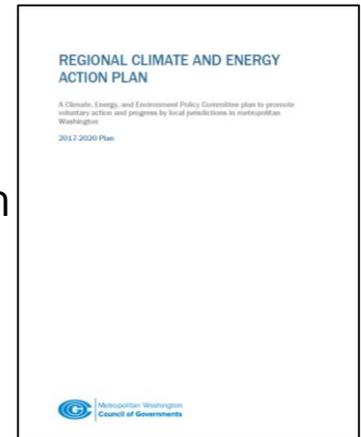
- “We seek efficient public and private use of energy Region-wide, with reliance upon renewable energy and alternative fuels for buildings, vehicles, and public transportation. (Sustainability)”

Agency-Wide Support for EVs

- COG's Department of Environmental Programs conducts most day-to-day planning activities related to electric vehicles

2018 Climate and Energy Priorities

- Implementation of 2017-2020 Regional Climate and Energy Action Plan, with an emphasis on:
 - Proliferation of electric vehicle (EV) ownership and infrastructure
 - Adopt a green fleet policy or fleet management plan aimed at improving fleet efficiency and reducing emissions of GHGs and other pollutants.
 - Add alternative fuel and charging equipment and infrastructure (e.g., natural gas, biofuel, electric, hydrogen) to public sector fueling facilities.
 - Support expanding a system of publicly accessible EV charging stations and other AFV fueling stations.
 - Provide or promote incentives for electric vehicles and charging stations.



Regional EV Market Snapshot

- Number of EVs:

2014 Base	2018
3,707	8,225

- Number of charging stations:
 - 2020 Goal = 1,000 Stations

	2014 Base	2018
Level 2	n/a	622
Fast Charge (DCFC)	n/a	116
Total	390	738

Sources:

COG Department of Transportation 2016 VIN Analysis; [US Department of Energy Alternative Fuel Data Center \(AFDC\)](#)

COG Electric Vehicle Initiatives

- **Fleets for the Future (F4F)** cooperative public sector procurement of alternative fuel vehicles and fueling infrastructure (includes EVs)
- **VW Settlement Coordination and Planning**, including Northeast (NE) Corridor Regional EV Infrastructure Investment Strategy
- Follow up on priorities identified at **2018 Auto Show**



F4F: Partners, Objectives and Outcomes



- Project Partners: NARC and 5 regional councils
- Objectives: aggregate demand, reduce cost, catalog lessons learned
- Vehicle type: Light-, medium-, and heavy-duty
- Fuel types: CNG, propane, ethanol (E85), plug-in electric technology
- Infrastructure type: CNG, E85, propane (LPG), Level 2 electric charging, and DC Fast Charging (DCFC)
- Outcomes
 - Aggregate vehicle awarded: 3 vendors, 17 different vehicle types
 - Aggregate infrastructure: IFB end of May release

VW Settlement/Electrify America

- Appendix C – Zero Emission Technology Program
 - Driven by Electrify America
 - Deployment in 17 Metro Regions
 - Interstate corridors
 - Hubs, employers, multi-family
 - Target/Walmart
- Appendix D – State Mitigation Fund
 - Volkswagen
 - States receiving funds for fleet conversions and EV infrastructure deployment



NE Corridor Regional EV Investment Strategy (VW Settlement/Electrify America)

- Effort driven by the Northeast States for Coordinated Air Use Management (NESCAUM)
 - Participants: state environmental agency staff from Maine to Virginia, including COG
 - Working with partners to promote priority EV interstate corridors in the Northeast
- Strategy focus: creating world class charging infrastructure for light-duty EVs along the east coast
 - Public DC Fast Charging no greater than 50 miles between one station and the next on the corridor
 - Top 20 destinations 100 miles+ from center of NCR
- Input provided to Electrify America to inform cycle 2 investments



2018 Auto Show Priorities

- Joint CEEPC/MWAQC Meeting on January 25 at the 2018 Auto Show
- Follow up on priorities identified
 - EV infrastructure gap analysis and deployment planning support
 - Consumer and workforce education EV Leadership Award
 - Washington Auto Show Indoor Track
 - Commuter Connections
 - EV Grand Prix
 - Aggregate procurement of vehicles and EV infrastructure

Resources

- National Association of State Energy Officials (NASEO)
 - <http://www.naseo.org/volkswagen-settlement>
- Volkswagen Settlement Clearinghouse – NASEO/NACAA collaboration
 - <https://vwclearinghouse.org/>
- DOE - <https://doee.dc.gov/page/volkswagen-settlement>
- VADEQ - <http://www.deq.virginia.gov/Programs/Air/VWMitigation.aspx>
- MDE - <http://mde.maryland.gov/programs/Air/MobileSources/Pages/MarylandVolkswagenMitigationPlan.aspx>
- Electrify America - <https://www.electrifyamerica.com/>



Leah Boggs

Senior Environmental Planner

(202) 962-3336

lboggs@mwkog.org

mwkog.org

777 North Capitol Street NE, Suite 300

Washington, DC 20002



Metropolitan Washington
Council of Governments