

# COG AND TPB ELECTRIC VEHICLE-RELATED POLICIES AND INITIATIVES

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Agenda Item 7



Metropolitan Washington  
Council of Governments

# Background

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- 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 Electric Vehicles (EVs)

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## Regional Transportation Priorities Plan

### Near-term Strategy 3: Support And Promote Electric Vehicles

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



# TPB Support for EVs

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- 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

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## 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)”

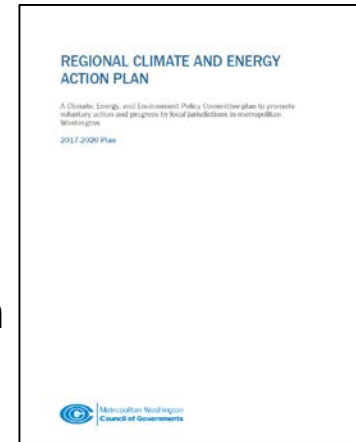
# Agency-Wide Support for EVs

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- 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

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- **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

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- VW Settlement
  - Appendix C - Electrify America (Interstate Corridors)
    - Metro Region Deployment
      - Hubs, employers, multi-family
      - Target/Walmart
  - Appendix D - State Mitigation Fund
    - States receiving funds for fleet conversions and EV infrastructure deployment



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

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- 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
- Input provided to Electrify America to inform cycle 2 investments



# 2018 Auto Show Priorities

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- 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



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