

# REGIONAL ELECTRIC VEHICLE PLANNING: AN OUTLOOK

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TPB Technical Committee

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# History of COG EV Efforts

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- COG EV Workshop, April 2011
- Clean Cities Community Readiness and Planning for PEV and Infrastructure Solicitation, 2011
- Revised EV Deployment Plan: EV Task Force Created
- COG EV Report: *Electric Vehicles in Metropolitan Washington - Understanding the Region's Current Readiness and Options for Expanding Their Use, October 2012: 25 recommendations*
- EV Business Case Forum at the Washington Auto Show, February 2013
- COG-Vision Fleet MOU Agreement, March – June 2015
- Fleets for the Future, March 2016 – September 2018

# 2030 Climate and Energy Action Plan (CEAP) Goals

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- COG Board adopted goals of:
  - 50% by 2030 below 2005 levels
  - Becoming a Climate Ready Region and making significant progress to be a Climate Resilient Region by 2030

# 2030 CEAP ZEV Strategies and Targets

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- Regional Zero Emission Vehicle (ZEV) Strategies
  - ZEV-1: expand light-duty electric vehicle deployment
  - ZEV-2: accelerate electrification of medium- and heavy-duty vehicles
  - ZEV-3: build out regional electric vehicle charging network
- ZEV Implementation Targets
  - Light-duty BEVs and PHEVs: 30%
  - Light-duty trucks: 9%
  - Medium- and heavy-duty trucks: 4%
  - Transit buses: 30%

# Local EV Plans

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- Completed Plans
  - City of Frederick – Community plan
  - City of Alexandria – Community plan
  - Prince George’s County – Government fleet plan
- Forthcoming Plans
  - DC’s Transportation Electrification Roadmap
  - Frederick County – Community and government plans
  - Arlington County – Government Operations Interim Plan, County-wide Master plan
  - Loudoun County – Government operations
- Under Consideration
  - Falls Church - Community-wide plan
  - Rockville – Government fleet plan
  - City of Manassas - Both government and community-wide

# Local EV Plans

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- Other
  - Charles County – Up for consideration by Commission in May
  - Greenbelt – Electric Vehicle Infrastructure Planning Group

# Other Opportunities

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- VW Environmental Mitigation Trust - NOx emission reductions + transportation electrification investments
- Electrify America – DCFC Investment
- Mid-Atlantic Electrification Partnership – EV charging ecosystem
- MD PSC Utility Pilot – five-year pilot program
- Dominion Energy Smart Charging Infrastructure Pilot

# Regional Support for EV Plan Development

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- COG has master contracts with ICF and Cadmus
  - Supports local climate, energy, and EV Plans
  - Developing EV plans for govt ops and community
- Opportunity for EV Plan Development Support
  - Shared investment in common elements
    - Utility programs
    - Technology/Vendor information
    - Certain policies and procedures
  - Jurisdiction-specific information
    - EV ownership, registrations, locations
    - EV equipment needs assessment
- Jurisdictional interest



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