

PLANNING FOR ELECTRIC VEHICLES OPPORTUNITIES FOR COORDINATION

Greenhouse Gas Reduction Strategy

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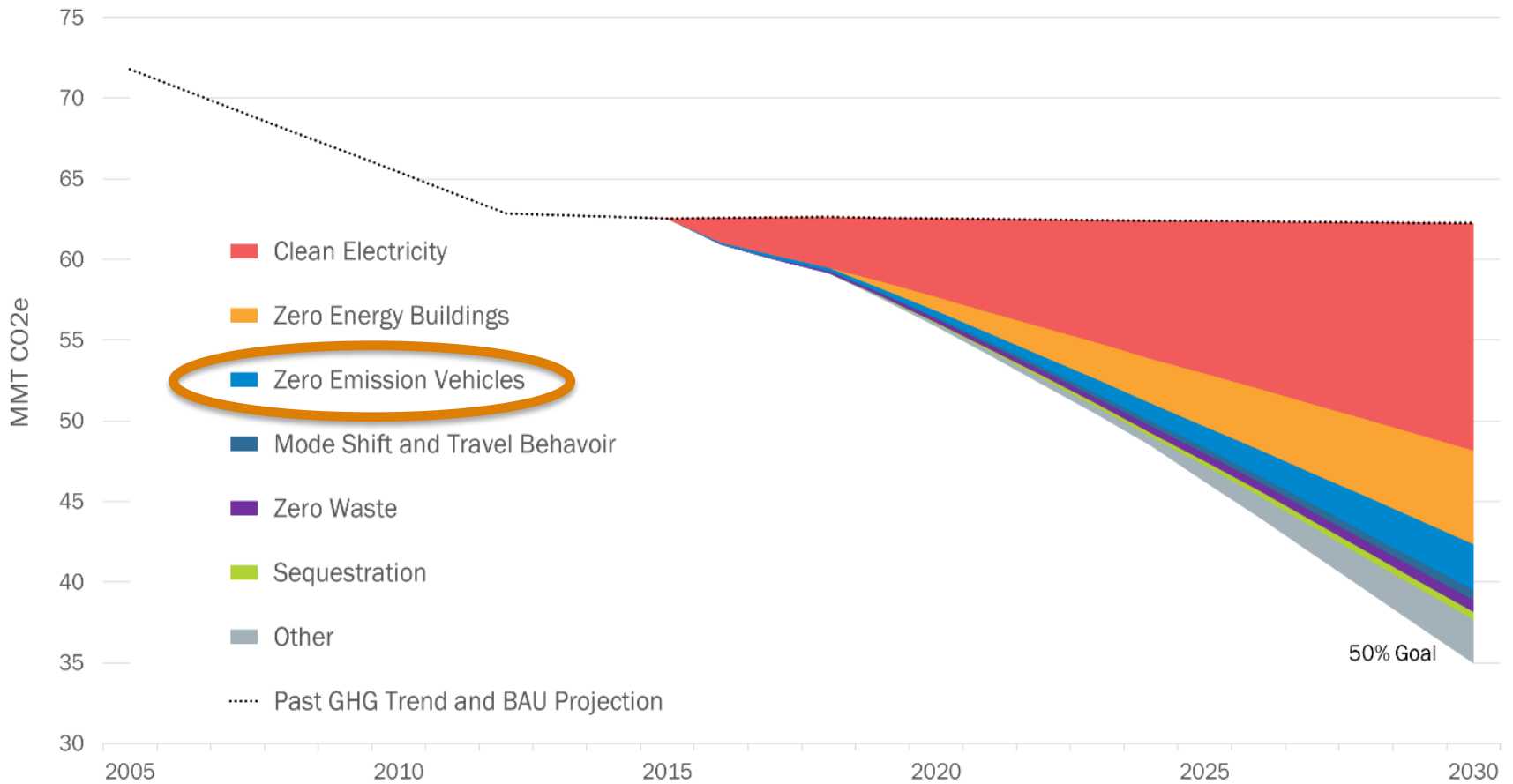
Objectives

- Recap, Reaffirm potential of vehicle electrification strategy to reduce on-road greenhouse gas emissions
 - COG 2030 Climate Energy Action Plan
- Overview of electric vehicle (EV) planning underway
 - Local and State levels efforts underway to support electrification
- Opportunities for regional collaboration in implementing vehicle electrification strategy
 - Specific Projects/Programs
 - Partnership and funding opportunities



2030 GHG Reduction Strategies

ZEVs Strategy – 3rd most potential overall; 1st within Transportation sector!



2030 CEAP ZEV Strategies and Targets

- 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%
- TPB's Climate Change Mitigation Study
 - More detailed analysis of ZEV implementation



Trends and Developments

- Growth in Vehicle Offerings
- Light Duty Fleet and Transit Interest growing
- Infrastructure deployment
 - Role of Private Sector, Vendor Ecosystem, New OEM models
 - Role of Government and Utilities
 - Federal GSA, Army, Washington HQ Service
 - Fleets/Consumers
 - Electric Utility Infrastructure Partnerships
 - Cooperative/Creative Procurement
 - Congress and White House - Infrastructure Investment



Drivers and Areas of Interest

- Market moving fast, how get out in front of it
- Accelerate ideal market conditions
- Economy of scales: Planning, Procurement, Deployment
- Building “Consumer” acceptance
- Addressing Workforce needs, education and training
- Transit, last mile, Autonomous, EV Rideshare can support workforce development
- Learning from Pilots
- Active supporters - Clean Cities Coalitions, EV enthusiasts, leading practitioners, NVTC, Dealer network with WANADA
- Advanced Energy Group Task Force – Transit Bus Infrastructure needs assessment, Congressional funding letter



ZERO EMISSION BUS TRANSITION SIGNATORIES



Metropolitan Washington Council of Governments

Local EV Plans: Light Duty Vehicles

- 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
- Under Consideration
 - Falls Church - Community-wide plan
 - Rockville – Government fleet plan
 - City of Manassas - Both government and community-wide
 - Charles County – Under consideration
 - Greenbelt – Electric Vehicle Infrastructure Planning Group



Transit and School Buses

Transit Buses

- Alexandria DASH
- DC Circulator
- Frederick County Transit
- Metrobus
- Montgomery County Ride On
- Prince George's County The Bus

School Buses

- Fairfax County Public Schools
- Montgomery County Public Schools



Regional Planning and Coordination Opportunities

- EV Plan Development
 - Vehicle and support equipment and services
 - Policy and Programming support
- EV Infrastructure Needs Assessment
- Shared investment in common elements
 - Utility programs
 - Technology/Vendor information
 - Certain policies and procedures
 - Jurisdiction-specific information
 - EV ownership, registrations, locations



COG Support Climate Change Planning

- Market Research and Tracking
- Network/coalition building, ecosystem mapping
- Technical / Policy Forums
- Special workshops, ride and drives, sharing of information and lessons learned
- Supporting local planning
 - Policy and incentives, requirements
 - Asset surveys, site assessments, fleet assessments
- COG master consultant contracts:
 - ICF and Cadmus
 - Supports local climate, energy, and EV Plans
 - Developing EV plans for Govt fleet and Community



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