

# Zero-Emission Buses

Washington Advanced Energy Group  
Q4 Stakeholder Challenge  
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# Introduction

Only with clean, efficient and effective public transportation can the region achieve DC's transformative 2050 carbon and equity goals.

**Zero-emission regional bus service is essential to that vision.**


**Metro cannot achieve the transition to a zero-emission bus fleet alone.**


Required actions for the region include:

1. **Energy Infrastructure Investments** - Identify, fund and build electric utility infrastructure required to operate service
2. **Policies & Rate Structures** - Establish regional policies and electricity rate structures e.g. Hawaii and British Columbia
3. **Funding for Zero-Emission Buses & Facility Conversion** - Increase funding to replace the existing fleet with cleaner buses

# Context



 Primary Decision Makers

 Secondary Decision Makers

 Influencers


# Benefits - Reaching carbon and equity goals

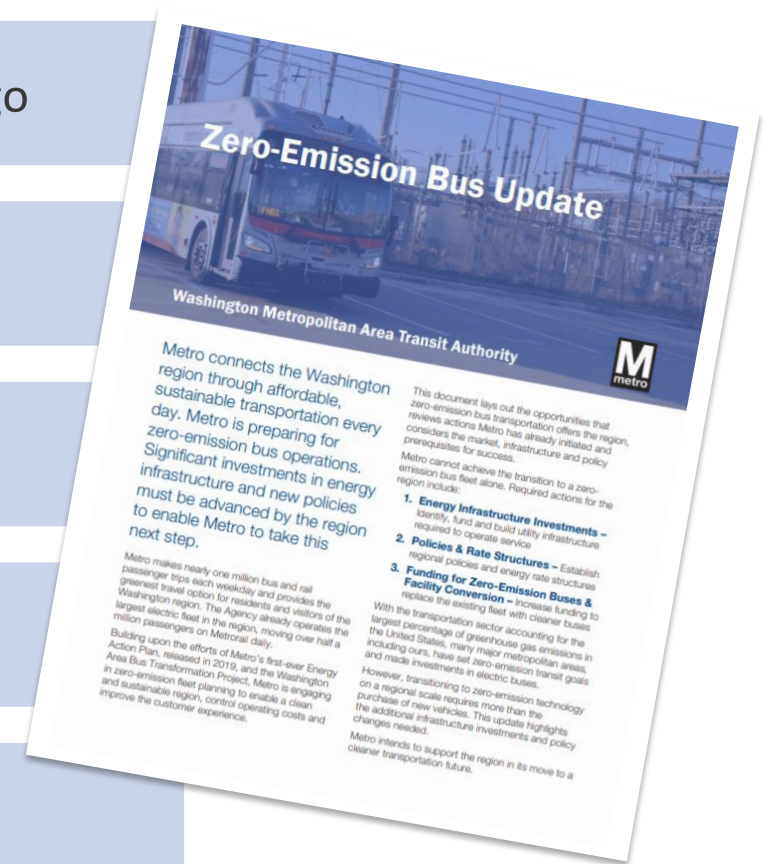
 Integrated convenient public transit that takes you where you want to go

 More people take transit

 Clean air

 Quiet livable streets

 Pedestrian and bike friendly communities



# Consequence of No Action



Lack of cross-jurisdictional planning leads to higher upfront costs



Siloed operations (different operators across the region)



Buses show up without grid connectivity/necessary charging infrastructure



Rate structures that don't match operations for vehicle charging



Funding doesn't match jurisdictional goals – not enough zero-emissions buses on the road to meet goals



Delayed and incomplete rollout – transition lacks transformational impact



**Bus service provides critical mobility for essential workers throughout the region – bus ridership has rebounded to approx. 50% of pre-COVID levels (while rail is near 15%).**



*Regarding Mobility & Transportation, to achieve Washington D.C.'s 2050 Carbon & Equity goals, the most critical obstacle to overcome is **to develop a coalition engaged in a stakeholder process delivering regional alignment and agreement on clear deliverables.***

### Key stakeholders to engage

- Local jurisdictions
- Bus service providers
- Government entities
- Utility providers
- Utility commissions
- Sustainability leadership/NGOs
- Funding partners
- Private sector investment

# Sample Solution

- Full identification of stakeholders
- Start the conversations to build coalition
- Survey motivations/interests
- Sharing of best practices
- Re-survey for progress
- Draft plan for 1 obstacle (e.g. utility infrastructure investment)