



June 1, 2022

To: COG Chief Administrative Officers (CAOs)
Environment and Transportation Agency Directors

Re: Invitation to Support a Regional Electric Vehicle Infrastructure Deployment Plan

Dear colleagues:

On behalf of the Board of Directors and the Climate, Energy, and Environment Policy Committee (CEEPC) of the Metropolitan Washington Council of Governments (COG), I am writing to invite you to participate in the development of a Regional Electric Vehicle (EV) Infrastructure Deployment Plan ("Plan"). The COG Board believes the region will benefit from a collaborative effort to develop an EV deployment plan and has directed staff to identify member jurisdictions interested in participating.

Basic elements of the Plan would be to provide the region with an assessment of the number of EV charging stations by type that will be needed to support future fleets of EVs and potential optimal locations for the EV charging stations across the region. Results will be provided at the jurisdictional level using consistent methodologies and assumptions. In addition to helping advance our shared climate priorities, the Plan will be helpful in pursuing federal and state grants, either individually or collectively on behalf of the region, especially to position metropolitan Washington favorably for new infrastructure funding.

Several jurisdictions (Frederick County, the City of Rockville, and Prince George's County) have initiated work with COG on coordinated EV planning. We understand other members (Arlington, the District of Columbia, the City of Frederick, and the City of Alexandria) have completed or are currently working on local EV plans as well.

So that the region can develop a consistent and comprehensive Regional Electric Vehicle (EV) Infrastructure Deployment Plan, we encourage you to consider joining our initiative, either through direct staff or consultant coordination with our project team or through a contribution of funding to the effort.

Attached is a high-level proposed scope of work for the Plan. A detailed scope will be developed in consultation with participating jurisdictions. Please contact Jeff King, COG's Director of Climate, Energy, and Air Programs at (202) 962-3238 or by email at jking@mwkog.org to discuss joining the initiative. Thank you for your consideration of this forward-looking opportunity.

Sincerely,

A handwritten signature in blue ink that reads "Chuck Bean".

Chuck Bean
Executive Director

Regional Electric Vehicle Deployment Plan for Metropolitan Washington

General Description

The purpose of this project is to assess the infrastructure needs across the metropolitan Washington region to support the transition of light-duty vehicles from fossil fuel to electric power. The results of the project could serve as the region's blueprint to deploy a robust regional network of electric vehicle (EV) support equipment (EVSE) to accommodate anticipated needs of the region's residents, workers, and visitors using EVs as a major element of mitigating the adverse impacts of Climate Change. The project, administered by COG with consultant support, will develop the core components of a regional EV deployment plan by: 1) conducting research and analyses regarding electric vehicles and related infrastructure; 2) assessing and quantifying the needs for EV chargers; and 3) identifying the optimum locations for these various types of EV chargers to form a network of EV charging stations.

Detailed Description

Specific steps in the project shall include:

Task 1: Electric Vehicle and Charging Needs Assessment and Forecast

1) Develop projections about future electric vehicle usage for the region. In collaboration with the project team, recommend and develop projection scenarios, including consideration of greenhouse gas emissions goals, growth in for-hire vehicles, and potential mode shifts. Projections of future EV fleet could be based on analysis of latest vehicle registration data, forecasts of population, employment, and housing, daily trips and vehicle miles traveled, and jurisdiction-level origins and destinations. Coordinate across all COG member jurisdictions.

2) Based on scenarios of future projected growth in electric vehicle-related travel, develop an assessment of projected number of electric vehicles charging stations needed matching the forecast future travel patterns and number of EVs. Use data from locally developed EV or Climate or Energy plans as available.

Deliverables:

- Literature review of and recommendation for an approach to develop projections for electric vehicles and the necessary supporting infrastructure.
- Draft and final Electric Vehicle and Infrastructure projections/forecast scenarios.

Task 2: Electric Vehicle Charger Deployment Planning

1) Develop data on existing vehicle charging infrastructure in the region. Obtain and update GIS layers to document all EVSE locations with accompanying data.

2) Develop an approach to identify and recommend locations to place the estimated number of EV chargers throughout the region. The locations identified/recommended would be based on the forecast number of EV trips and their predominant travel patterns. This work will consider and incorporate the currently defined EV corridors in the region, as appropriate and COG's Regional Activity Centers (RAC), Equity Emphasis Areas (EEA) and High-Capacity Transit Stations (HCT). The intent of this work activity is for the recommended number and location of EV chargers to form a region wide network of EV charging stations to provide EV operators with a reasonable certainty/reliability of finding charging stations during travel.

3) The recommended EV charger locations, perhaps referred to as EV Charging Zones (EVCZs) will be mapped as a GIS layer. An analysis of the distribution of the EVCZs located within or adjacent to RACs, EEAs and HCTs will be provided, along with, to the extent possible, the number of EVs estimated to be served by these EVCZs. Additionally, information about the land use type (public, private, shopping, office, residential, etc.) at the recommended EV charger stations will be identified to the extent possible.

Deliverables:

- Recommended approach for developing EV Charging Zones plans.
- Draft and final list of EV Charging Zones by Locality.
- Draft and final EV Charging Zones Plans, with associated GIS maps and documentation on real estate types, and other considerations.

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