

# REGIONAL ELECTRIC VEHICLE INFRASTRUCTURE IMPLEMENTATION (REVII) STRATEGY PROJECT

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## Draft Results

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# REVII Strategy

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- The Regional Electric Vehicle Infrastructure Implementation (REVII) Strategy is being developed to support state and local governments as they prioritize locations for publicly accessible electric vehicle (EV) infrastructure deployment.
- The strategy will identify priority locations for a regional network of chargers to support the shift of the private light-duty vehicle fleet to EVs.
- The information provided in the strategy will inform states and local jurisdictions as they apply for funding from federal programs such as future funding opportunities from the Bipartisan Infrastructure Law's Charging and Fueling Infrastructure (CFI) Discretionary Grant Program.
- The strategy is being developed by the National Capital Region Transportation Planning Board's (TPB) on-call consultant, ICF, and funded through the TPB's Unified Planning Work Program (UPWP) Technical Assistance Program.

# Slide Titles

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- Standard Font for slide titles: Franklin Gothic Medium
- Standard Font Size for slide titles: 36 pt
- Title and divider line automatically adjust based on title length
- Keep titles as short as possible

# Overview

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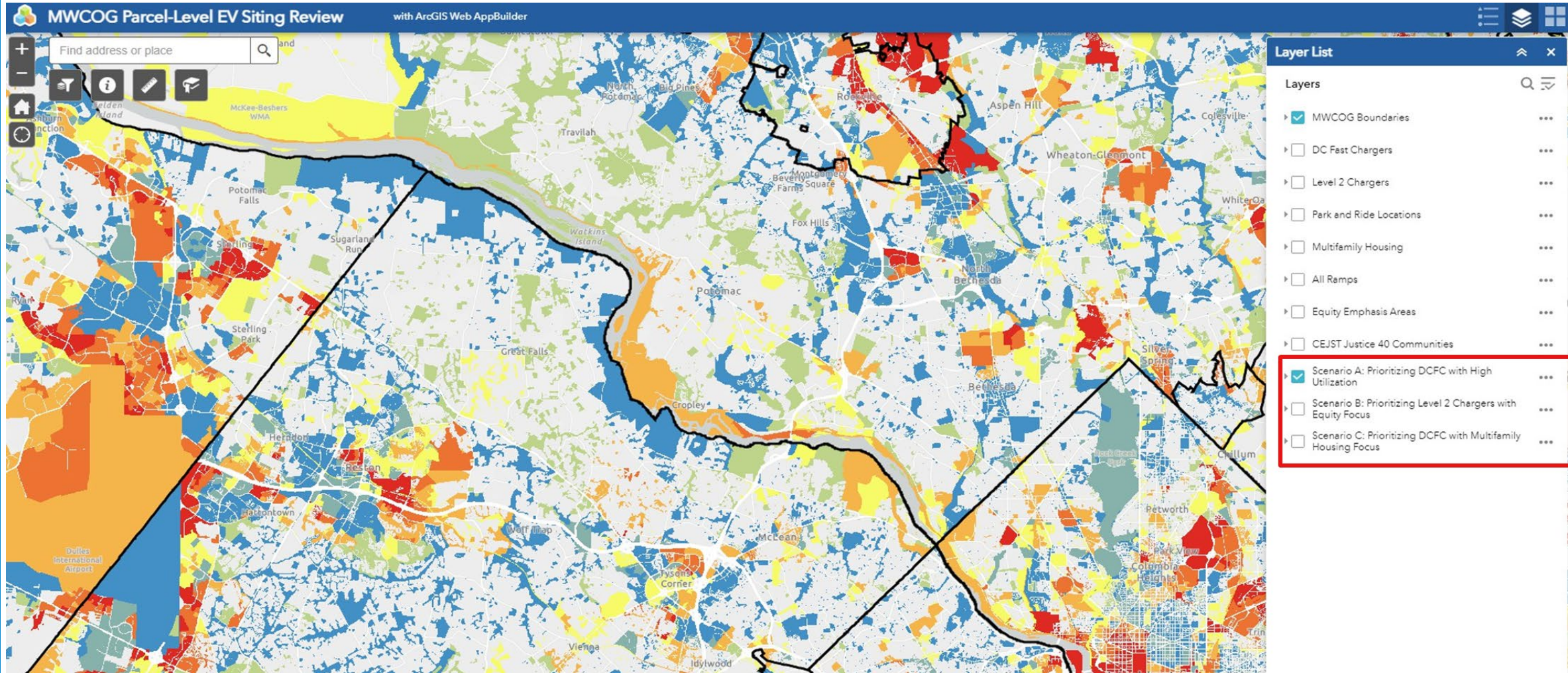
- **Light-duty electric vehicle registration projections for 2030, 2035, and 2045 by county and region.**
  - Three scenarios: low, medium, and high scenarios
  - Goal: plan for light-duty electric vehicle charging station demand
- **Develop light-duty electric vehicle charging station deployment location recommendations map**
  - Three scenarios for different priorities.
  - Goal: Help jurisdictions identify and prioritize parcels for light-duty electric vehicle charging station installations.
- **Results discussed today are DRAFTS. Feedback has been collected and will inform final document**

# Scenarios

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- Low: Growth rate informed by historical vehicle registration data and knowledge of the jurisdiction, serves as a conservative estimate.
- Medium: Average of low and high scenarios.
- High: Jurisdiction's proportion of state or district ZEV adoption goals; Advanced Clean Cars adoption; subsequent goal of 80% EVs by 2045. This scenario serves as the maximum potential for EV adoption.
- Assumes maximum capacity the electric grid can handle is approximately 80% market saturation
- MWCOG historic vehicle registration data is used for years 2010–2020. Growth rates for observed electric vehicle registrations from MDOT and Atlas are used for 2021 and 2022.

# Sample Scenario Results



## Option for smaller slide title font/no line, if more room needed for chart

- Light-duty EV projections will be used to calculate the approximate number of EV charging stations needed to support future EV adoption in the region
- The charging station priority map will help identify locations to deploy the estimated number of needed charging stations
- Use the map for any stage of your planning process:
  - Start your planning process by using the map to identify priority locations generally to help focus your planning efforts
  - Crosscheck against locations you have already flagged as high interest areas for charging station deployments
  - Select high priority parcels for in-depth charging station siting assessments (i.e., checking electrical conduit/infrastructure that exists or needs installed)

*The analysis is regional. Jurisdictions should use this study in conjunction with local knowledge to determine the best path forward for deploying EV charging stations.*

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