

# ELECTRIC VEHICLES

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# Agenda

- **Federal-Level Overview**
- **Virginia Alternative Fuels Corridors**
- **Corridor Signage**
- **Logo, TODS and GMSS Signs**
- **Other Communications Methods**

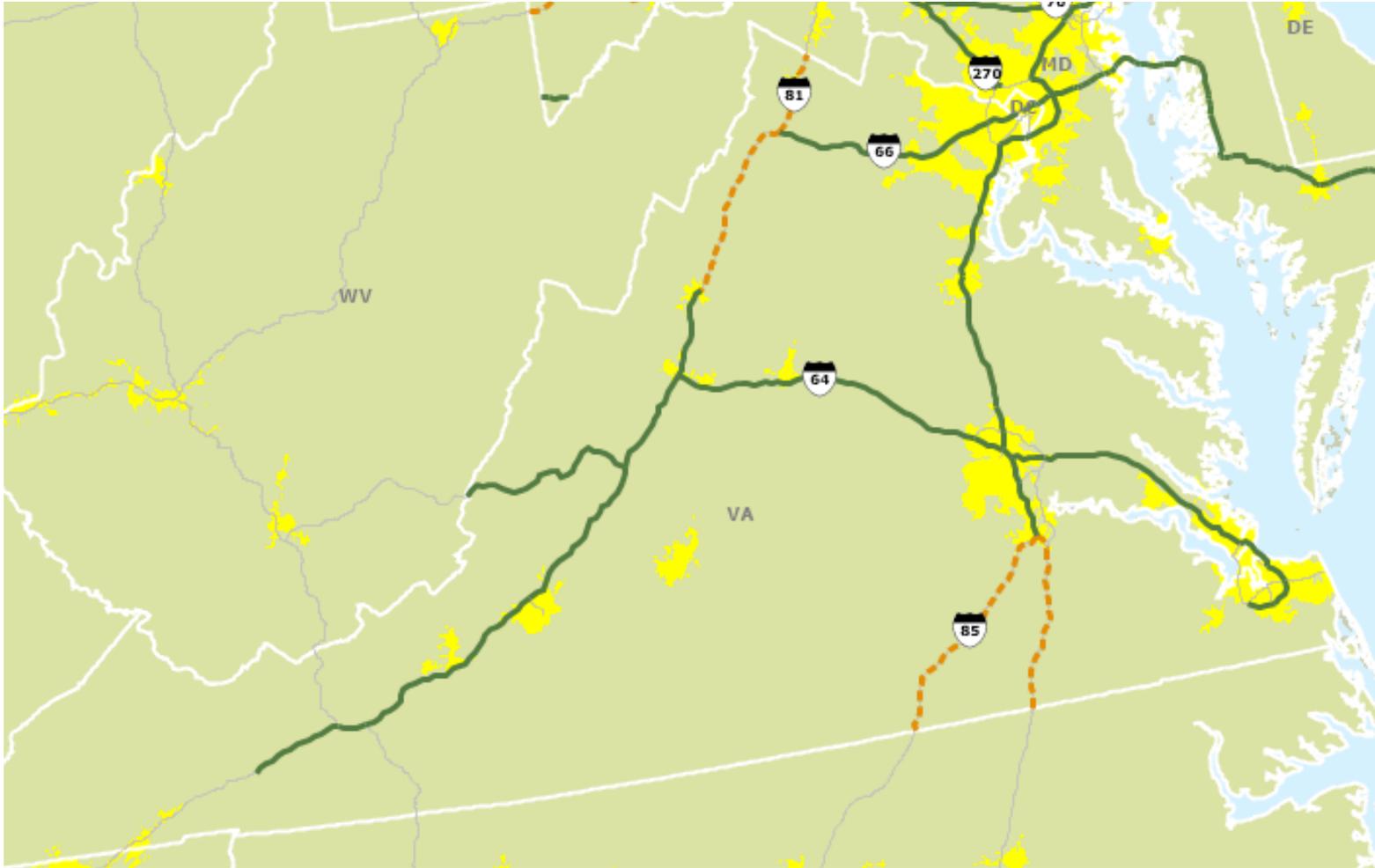
# Federal Overview | *FAST Act*

- **FAST Act required USDOT to designate alternative fuels corridors**
  - **Electric Vehicles**
  - **Other fuels – CNG, LNG, LPG, HYD**
- **FHWA has solicited nominations for “signage-ready” and “signage-pending” corridors**
- **Two rounds of solicitations (2016 and 2017)**

# Federal Overview | *EV “Signage-Ready Corridor” Criteria*

Category	2016 Criteria	2017 Criteria
Type of stations	<ul style="list-style-type: none"> <li>• Level 2 or Fast Charger</li> <li>• Public only (no Tesla)</li> </ul>	<ul style="list-style-type: none"> <li>• Fast Charger only</li> <li>• Public only (no Tesla)</li> </ul>
Station location	<ul style="list-style-type: none"> <li>• ≤50 miles between stations</li> <li>• ≤ 5 miles from corridor</li> </ul>	
Corridor characteristics	<ul style="list-style-type: none"> <li>• 150 mi minimum length (or entire length within state)</li> <li>• Generally, only Interstates (but states could nominate other arterials)</li> </ul>	
Other amenities	<p>FHWA’s solicitation did not consider whether stations have amenities (restrooms, water), hours of public availability, or ADA accessibility</p>	

# Virginia Corridors | *VA's response to 2016 solicitation*



Rte	Description
I-95	Petersburg to DC
I-64	Entire length (WV to Chesapeake)
I-66	Entire length
I-81	Marion to Harrisonburg

# Virginia Corridors | *Future Growth?*



## REQUEST FOR PROPOSALS

(RFP)

RFP # 18-01-CP

Issue Date: September 29, 2017

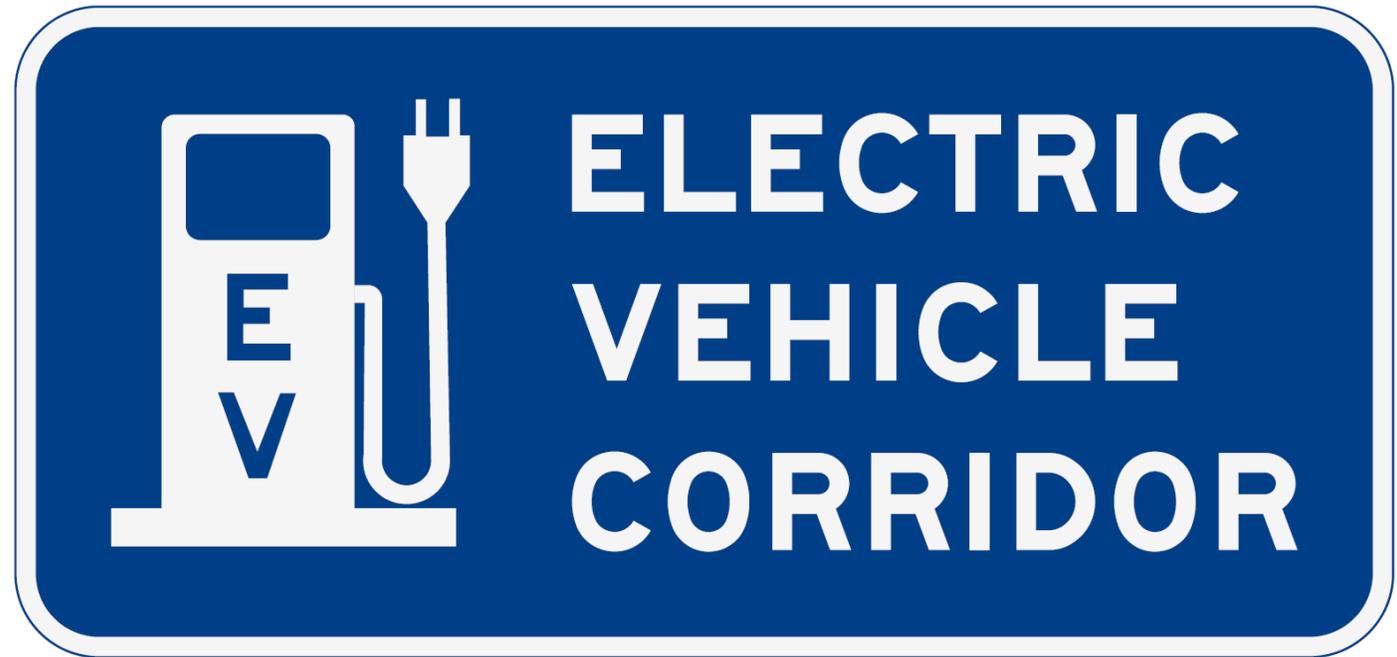
Title: Volkswagen Mitigation – Statewide Public Electric Vehicle Charging Station Network



# Corridor Signage | *Sign Design*

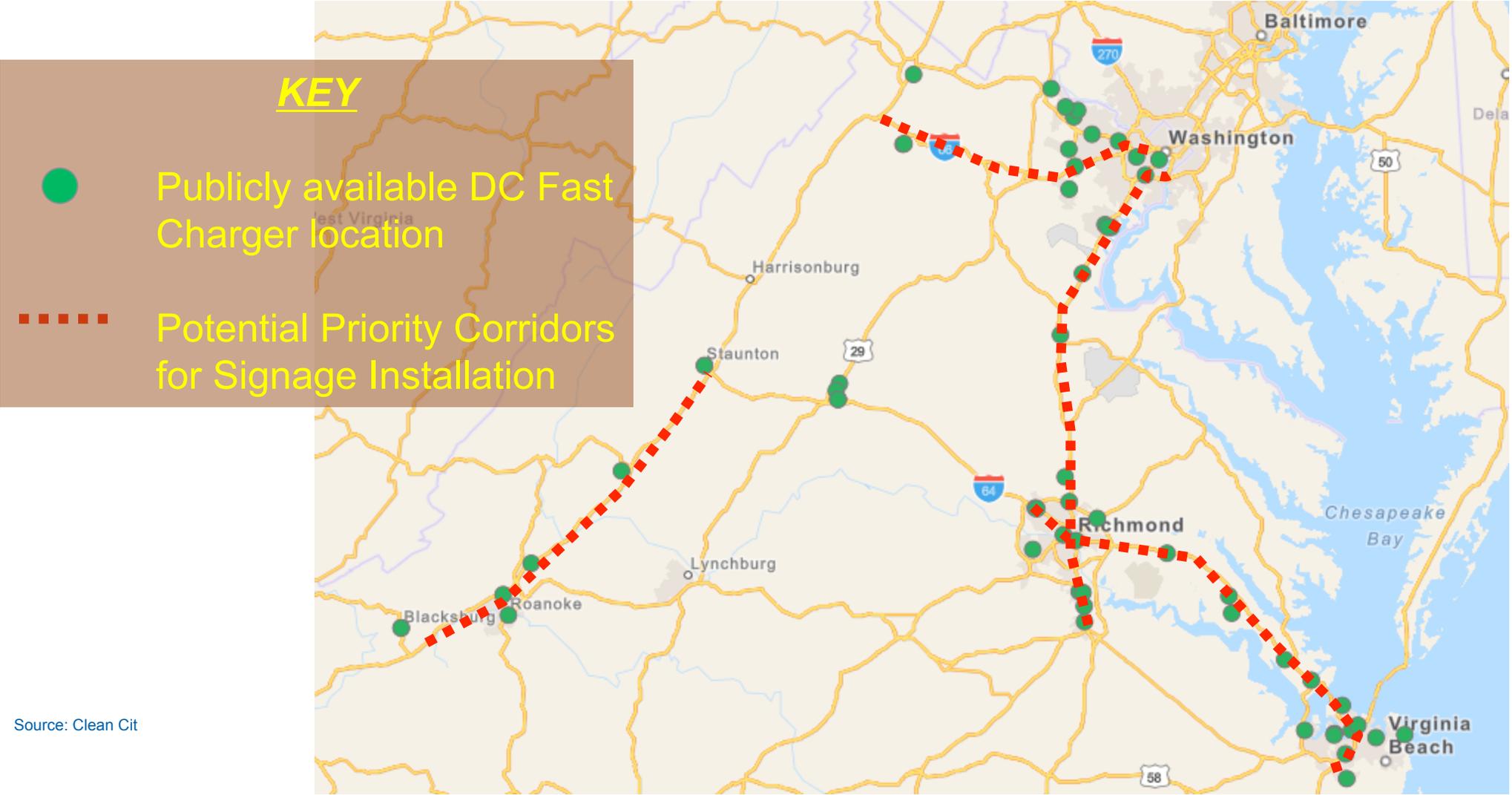


*FHWA recommendation*



*VDOT recommendation*

# Virginia Corridors | *Public Fast Charger Stations*



Source: Clean Cit

# EV Station Signs | *Integrated Directional Signage Program (IDSP)*



General Motorist Service Signs (GMSS)



Specific Travel Services Signs (Logo)



Tourist Oriented Directional Signs (TODS)



Supplemental Guide Signs (SGS)

# EV Station Signs | *IDSP Participation Criteria*

- **Current IDSP Participation Criteria based on:**
  - 2005 CTB criteria
  - Manual on Uniform Traffic Control Devices (MUTCD)
  - Discussions of the Supplemental Directional Signing Advisory Committee (SDSAC)
- **SDSAC approved EV policy at April 2018 Meeting**
- **DMME to develop EV-specific participation criteria and will take lead in certifying EV IDSP applicants**



# EV Station Signs | EV Facility Criteria

Criteria	Logo Signs	GMSS & TODS signs
Eligible facility type	Gas stations only (supplemental message beneath gas station logo)	Any facility meeting below criteria
Typical gas station criteria	<ul style="list-style-type: none"> <li>• 3 miles or less from Interchange or Intersection</li> <li>• Open 16 hours per day (12 hrs/day for TODS), 7 days per week</li> <li>• Public restrooms, free drinking water</li> <li>• Tire repair services or info.</li> </ul>	
<u>Potential</u> EV-specific criteria (to be certified by DMME)	<ul style="list-style-type: none"> <li>• At least 2 (preferably 4) DC Fast Chargers (excluding Tesla)</li> <li>• Reserved parking spaces and on-premises directional signage</li> <li>• Lighting</li> </ul>	



On-premises sign example



Logo plaque with supplementary message



TODS example



GMSS trailblazer example

# Potential Next Steps

- **DMME to finalize certification process**
- **Examine funding opportunities for EV Corridor signs?**
  - **Could VA-DC-MD cooperate on multi-state “branded” corridor? (similar to “Great Lakes ZEV Corridor” – I-94 thru 5 states)**
- **Consider other methods of promoting EV locations:**
  - **Provide information on 511?**
  - **Link to EV facility maps on VDOT’s “Travel Info” page?**



**THANKS!**

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