MDOT's EVI Deployment Plan

Update for FY 2023-2024
May 25th, Memphis MPO

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Agenda

- Welcome and Introductions
- Recap Mississippi's 2022 EVI Plan
- Current and Upcoming Timeline
- CFI Discretionary Grant
- EVITP Training
- Justice40 Requirements and Survey
- Feedback

NEVI Program Overview

Mississippi Funding for 5-year National Electric Vehicle Infrastructure (NEVI)

- Total funding of $50.5 Million is allocated over 5 years
- The Federal cost-share for the NEVI Formula Program is 80%
- Funds for Fiscal Years 2022 – 2023 are now available
- For more information on the apportionment of the NEVI Formula Program Pursuant to the IIJA visit: https://www.fhwa.dot.govpartisan-infrastructure-law

$50,557,563

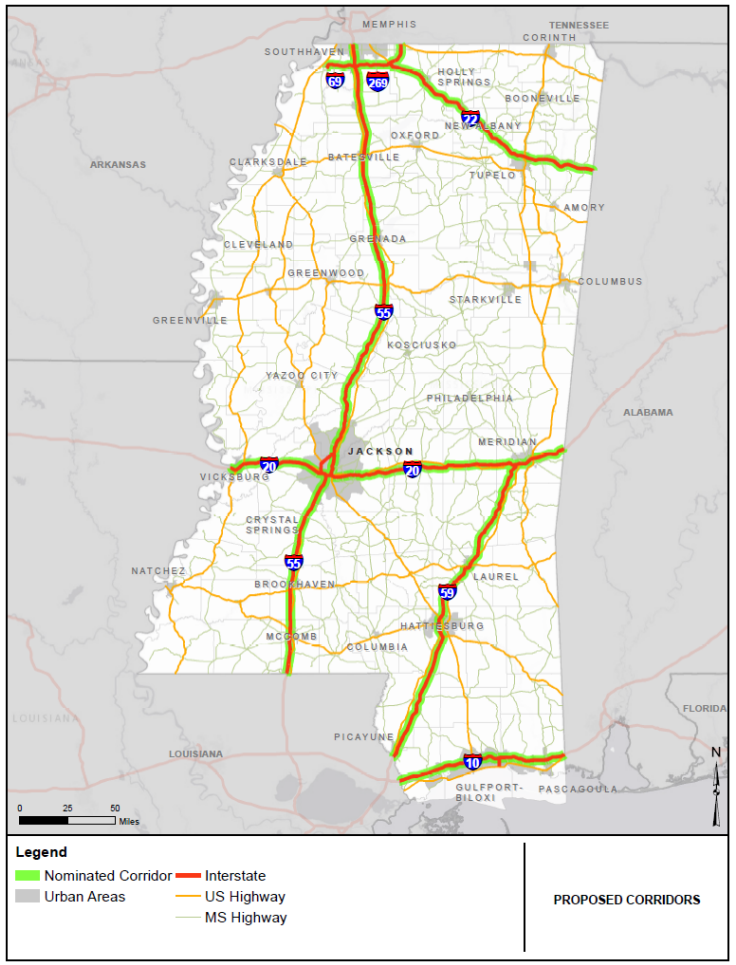
AFC Corridors and NEVI Formula Program Requirements

AFC Corridor Overview and Requirements for NEVI Program funded EV Charging Stations

Current Alternative Fuel Corridors in MS

All Connecting Interstates

- I-10 – EV Corridor Pending
- I-20 – EV Corridor Pending
- I-22 – EV Corridor Pending
- I-55 – EV Corridor Pending
- I-59 – EV Corridor Pending
- I-69 – EV Corridor Pending
- I-269 – EV Corridor Pending



Mississippi's EVI Deployment Plan

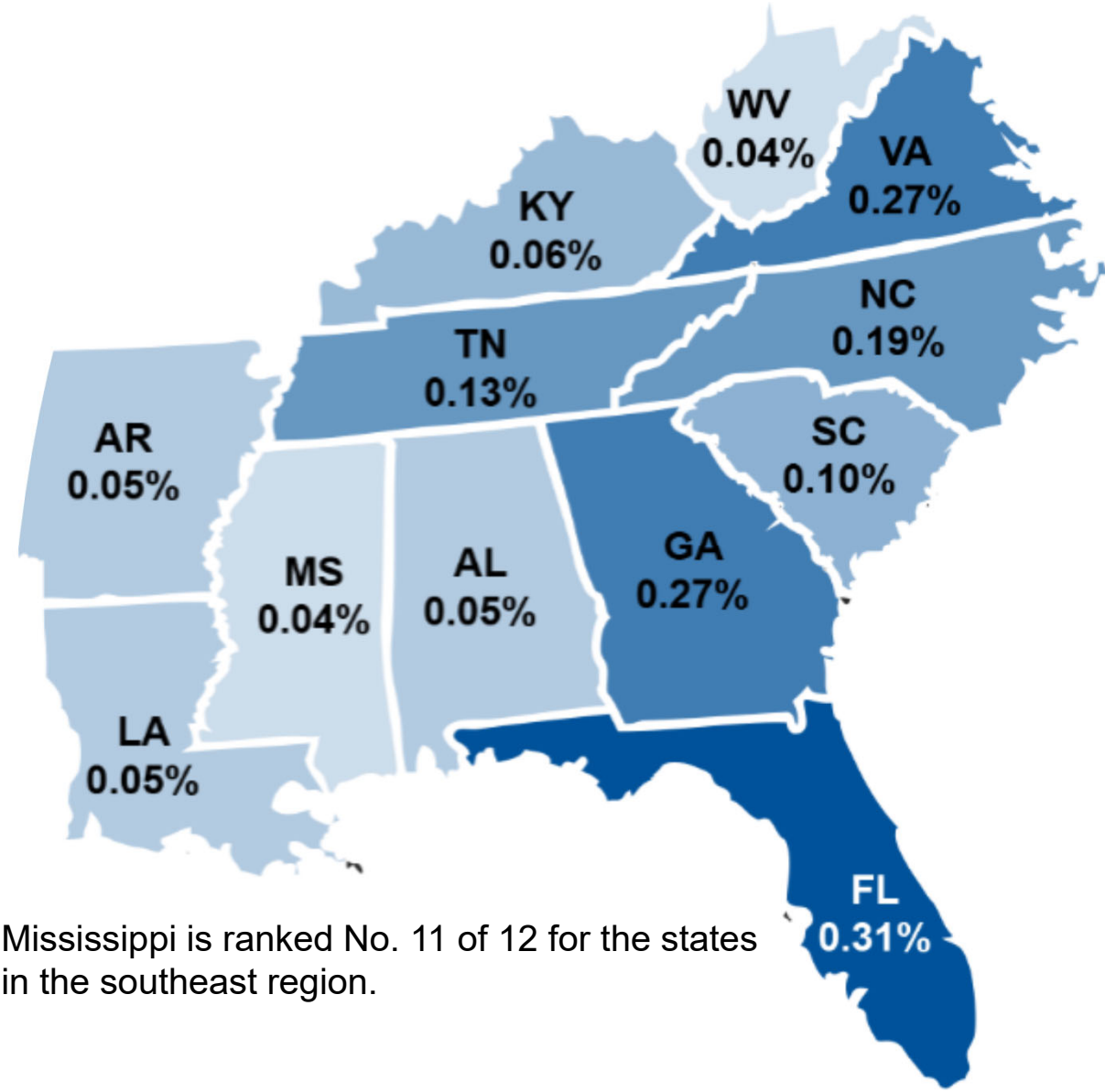
MDOT Electric Vehicle Infrastructure Deployment Plan Overview

- Under the NEVI Formula Program, all 50 states are required to submit an EV Infrastructure Deployment Plan (Plan)
- The purpose of the plan is to describe how the State intends to use its apportioned NEVI Administration (FHWA) funding
- Some elements included in the plan include, but are not limited to:
  - Plan Vision and Goals
  - State Agency Coordination
  - Public Engagement
  - Contracting
  - Existing and Future Conditions Analysis
  - EV Charging Infrastructure Deployment & Implementation
  - Civil Rights & Equity Considerations
  - Labor and Workforce Considerations
  - Cybersecurity

Plan Vision and Goals

Vision: "Position Mississippi to be active in deployment of EV charging infrastructure within the state."

Mission: "Provide reliable, accessible, and equitable EV charging infrastructure across the state."



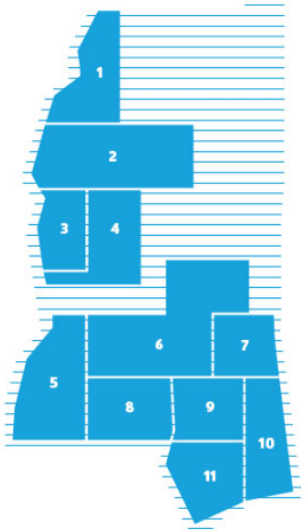
Mississippi is ranked No. 11 of 12 for the states in the southeast region.

Stakeholder Engagement

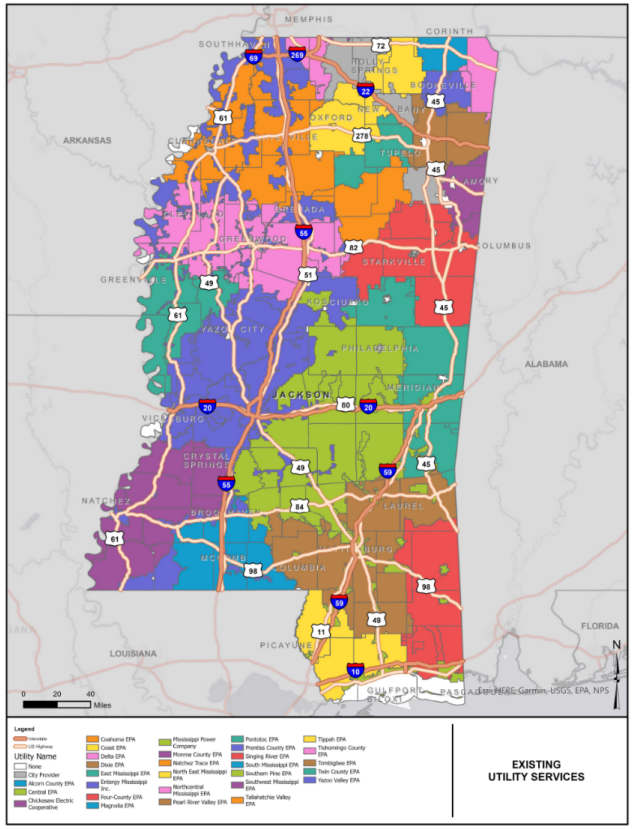
MDOT plans to continue building from their previous stakeholder and public engagement efforts. Some of the stakeholders they have engaged in NEVI related efforts include:

- State Agencies
- Utilities
- MPOs
- Tribal agencies
- Municipalities
- Others

1. Coahoma Electric — Lyon, MS
2. Delta Electric — Greenwood, MS
3. Twin County Electric — Hollandale, MS
4. Yazoo Valley Electric — Yazoo City, MS
5. Southwest Electric — Lorman, MS
6. Southern Pine Electric — Taylorsville, MS
7. Dixie Electric — Laurel, MS
8. Magnolia Electric — McComb, MS
9. Pearl River Valley Electric — Columbia, MS
10. Singing River Electric — Lucedale, MS
11. Coast Electric — Kiln, MS



Mississippi's Utilities



Deployment Analysis and Implementation

STEP 1 Identify existing public DCFC stations, if any, that meet current AFC-ready requirements.

STEP 2 Identify gaps of more than 50 miles between DCFCs.

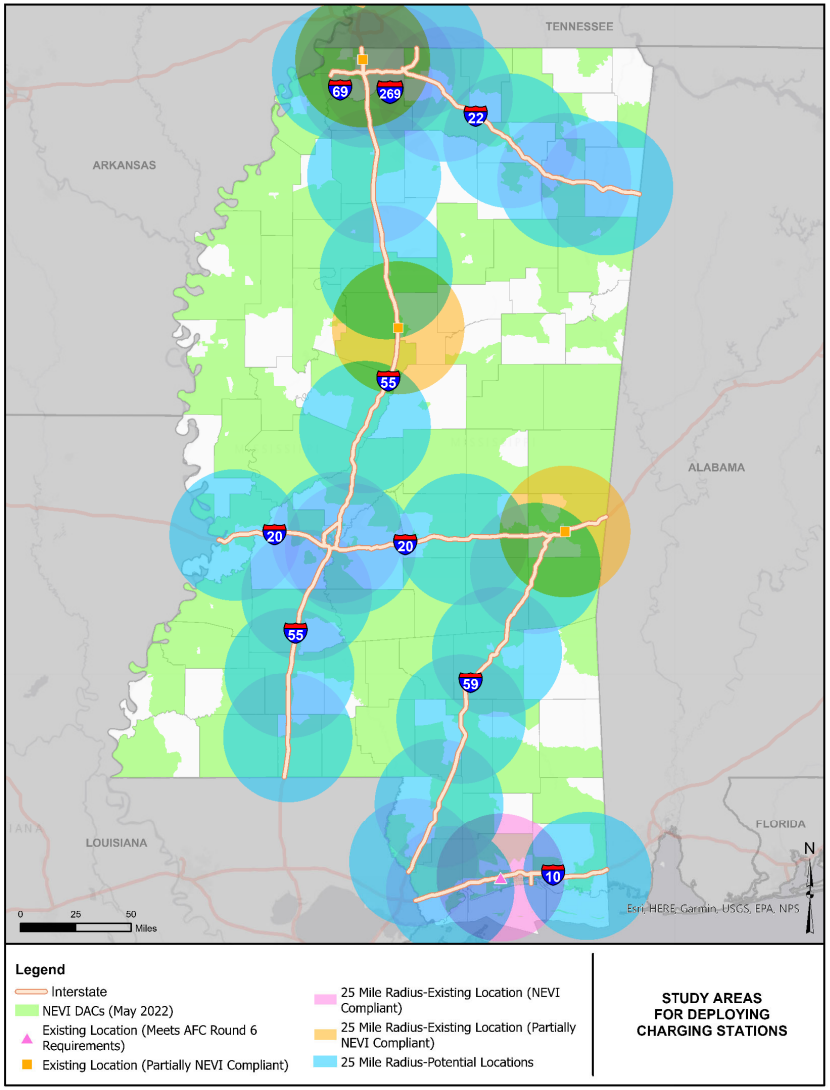
STEP 3 Identify potential DCFC areas to fill spacing gaps. Determine the following for potential DCFC areas:

- Which AFCs have three-phase power within 1 mile of the nearest interstate?
- Is parking, the parcel area, or the number of parcels adequate to host charging infrastructure in compliance with ADA requirements?
- Are there adjacent amenities for EV drivers to visit while their vehicles are charging?

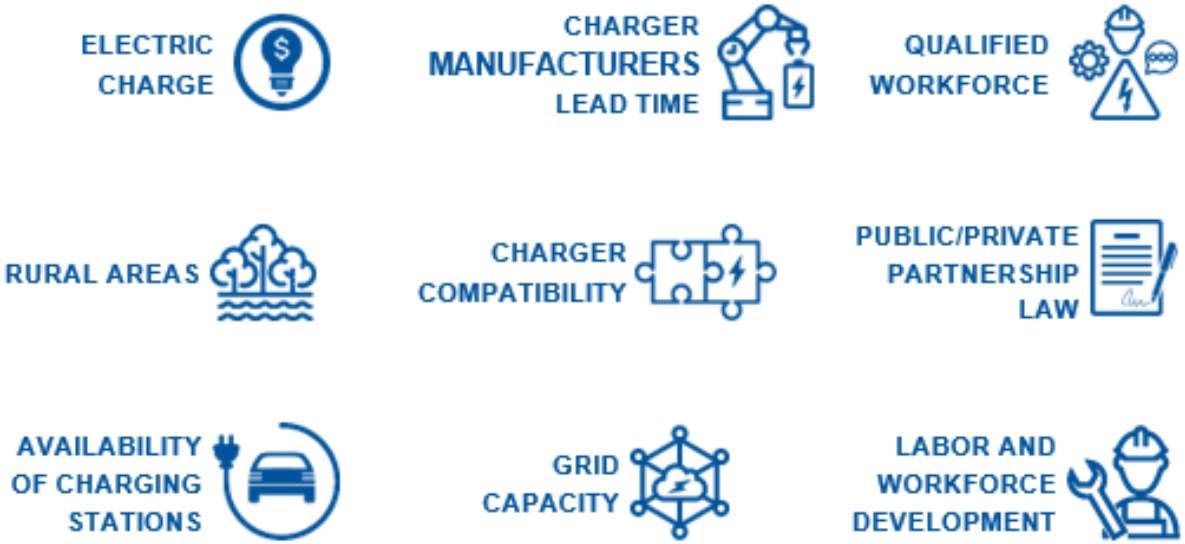
STEP 4 Identify possible DCFC areas near Justice40 DACs.

STEP 5 Allocate a minimum of four charging ports to each charging area.

Mississippi will need approximately **20-30 new stations** to meet corridor ready status for pending AFCs

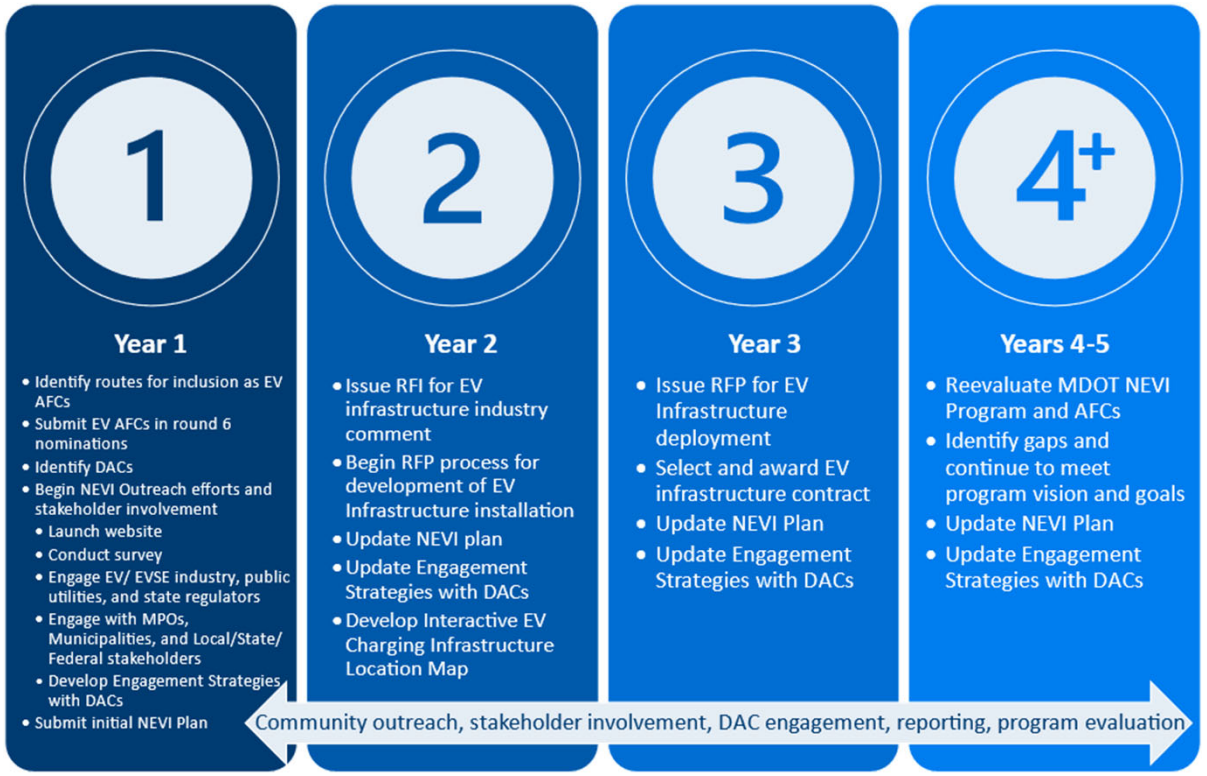


Known Risks and Challenges



Next Steps

- Update NEVI Deployment Plan
- Stakeholder engagement and coordination
- New AFC Nominations
- Draft RFI/RFP
- Program procurement planning



Joint Office Next Steps

- **EV-Charging Analytics and Reporting Tool (EV-ChART) 23 CFR 680.112 Data Fields**
- **NEVI Program Guidance 2.0 (coming soon)**
- **AFC Round 7 Request for Nominations (coming soon)**
- **Resources, data and tools, available at:** https://driveelectric.gov/

CFI Discretionary Grant
Extended to June 13th

- Community Grant Program Community Program
  - grants are expected to reduce greenhouse gas emissions and to expand or fill gaps in access to charging or alternative fueling infrastructure.
- Corridor Grant Program Corridor Program
  - grants are expected to support buildout of charging or other alternative fueling infrastructure along designated AFCs. DOT designates national AFCs that identify near- and long-term needs for, and location of, charging and other fueling infrastructure at strategic locations along major national highways across the United States.*

https://www.grants.gov/web/grants/view-opportunity.html?oppId=346798

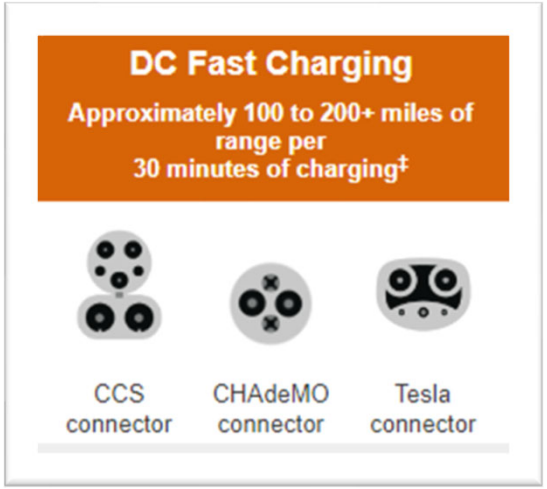
Alternative Fuel Corridor Requirements

- No more than 50 miles between one station/site and the next on corridor.
- Alternative fuels included in corridor designations are Electricity, Hydrogen, Propane, Liquid Natural Gas, and Compressed Natural Gas
- AFC EV Pending designation means that available public Direct Current Fast Charging (DCFC) is separated by more than 50 miles along a corridor and each site is no more than 5 miles off the highway.
- AFC EV Ready designation means that available public DCFC is no more than 50 miles between one station and the next on along the a corridor and each site is no more than 1 mile off the highway.

Source: Renaissance at Colony Park Shopping Mall - DC Fast Electric Car Charging - 1016 Highland Colony Pkwy, Ridgeland MS 39157 - Shopping Center - PlugShare

NEVI Formula Program Requirements

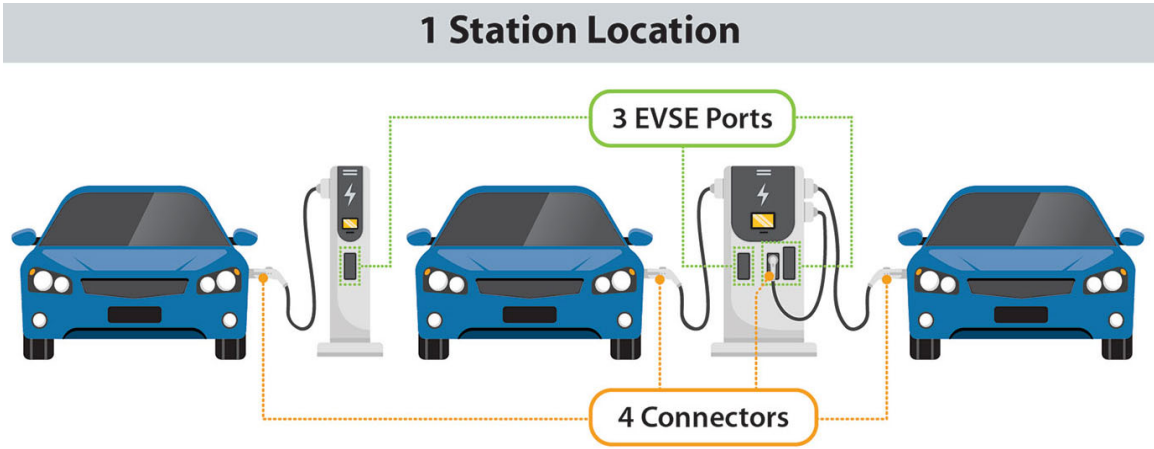
- All EV charging infrastructure projects funded through NEVI must follow Title 23 U.S.C. guidelines
- Funds must first be used to “build out” Alternative Fuel Corridors (AFCs)
- Based on the Final NEVI Rules, all project locations along AFCs must meet the following criteria:
  - No more than 1 mile from Interstate exits or highway intersections along the corridor
  - Locations must be publicly accessible and available 24/7
  - American with Disabilities Act (ADA) compliant
  - Include four (4) DCFC Charging Ports capable of simultaneously charging at least four EVs
  - Connector types must be CCS-compliant
  - EV Chargers must have continuous power delivery of at least 150 kW
- More details regarding the minimum requirements and standards



Source: Alternative Fuels Data Center: Developing Infrastructure to Charge Electric Vehicles (energy.gov)

NEVI Formula Program Requirements – Cont'd

- Other guidelines for the NEVI formula program outlined in the Final NEVI Standards and Requirements (2023-03500.pdf (govinfo.gov)) include, but are not limited to:
  - Installation
    - EVITP specific requirements
  - Operations and Maintenance
  - Interoperability
  - Traffic Control Devices and Signage
  - Data Collection and Sharing
  - Network Connectivity
  - Payment methods and Accessibility



Source: Alternative Fuels Data Center: Developing Infrastructure to Charge Electric Vehicles (energy.gov)

MDOT EV Website

Mississippi's Electric Vehicle (EV) Infrastructure Program

ntroduction and EV Development Plan

The Mississippi Department of Transportation (MDOT) is developing a plan to ensure all Mississippian's and visitors have access to the Electric Vehicle (EV) charging infrastructure with a focus on the connectivity of rural and urban areas. The National Electric Vehicle Infrastructure (NEVI) Formula Program is providing dedicated funding to State's to deploy Electric Vehicle (EV) charging infrastructure and establish a more interconnected network to facilitate data collection, access, and reliability. Funding under this program is initially directed to designated Alternative Fuel Corridors (AFC) for electric vehicles to build out this national network, particularly along the Interstate Highway System.

Electric Vehicle (EV) - Alternative Fuel Corridor (AFC) Nomination – Round 6

Corridor-Pending EV AFC designations: I-10, I-20, I-22, I-55, I-59, I-69, and I-269. Click here to view Corridor-Pending EV AFCs.

Next Steps

On September 14, 2022, FHWA announced the approval of MDOT's Electric Vehicle Infrastructure Deployment Plan for implementation. Click here to view MDOT's approved plan. As we move towards implementation of the program, we intend to provide more information regarding site locations and ways to stay engaged. Additionally, we will continue to provide updates on the website, as well as reevaluate and update the plan on an annual basis.

Collaboration and Engagement

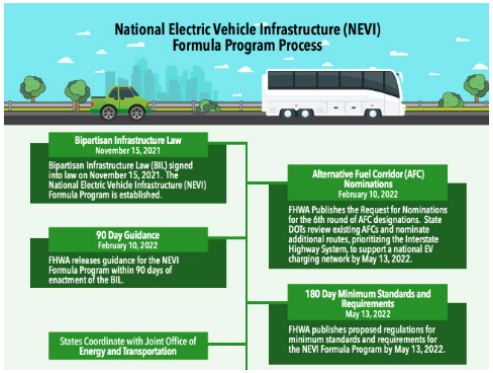
As we move forward and update the Plan annually, MDOT will continue to stay engaged. We plan to provide additional surveys and engagement opportunities. At this time, you can e-mail us directly to submit any comments or questions.

Checklist

- ☑ Request for AFC Nominations - February 10th, 2022
- ☑ Tentative 90 Day Guidance - February 10th, 2022
- ☑ 180 Day Minimum Standards and Requirements - May 13th, 2022
- ☑ Submitted Round 6 AFC-EV pending corridors to FHWA - May 13th, 2022
- ☑ FHWA Approves Round 6 AFC-EV pending corridors - July 6th, 2022
- ☑ Submit State Plans - August 1st, 2022
- ☑ FHWA Approves State Plans - September 30th, 2022
- ☑ Approved Rulemaking - Late 2022/ Early 2023
- ☐ Update State Plan - Fall 2023
- ☐ Deployment of Infrastructure through the use of NEVI Formula Program funds

Though DBE requirements do not apply to NEVI Formula funds, MDOT is still committed to its DBE Program. MDOT's DBE Program ensures that firms owned and controlled by minorities, women, and other socially and economically disadvantaged persons have the opportunity to grow and become self-sufficient so that they are able to compete, on equal basis, with non-disadvantaged businesses for contracts and subcontracts in the transportation industry. Click here to go to MDOT's Civil Rights page and to view the current DBE listing.

- Joint Office
- The National Electric Vehicle Infrastructure (NEVI) Formula Program Guidance
- 5-year National Electric Vehicle Infrastructure Funding by State
- Alternative Fuel Corridors
- Notice of proposed rulemaking (NPRM)
- FHWA - Frequently Asked Questions
- Fiscal Year 2022/2023 EV Infrastructure Deployment Plans
- Mississippi-AFC - EV - Pending Corridors
- MS EV Infrastructure Deployment Plan.pdf
- Electric Vehicle Charging Stations Locations
- National Electric Vehicle Infrastructure Standards and Requirements - Final Rule



Questions?

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For more Information: