

Minnesota Electric Vehicle Infrastructure Plan

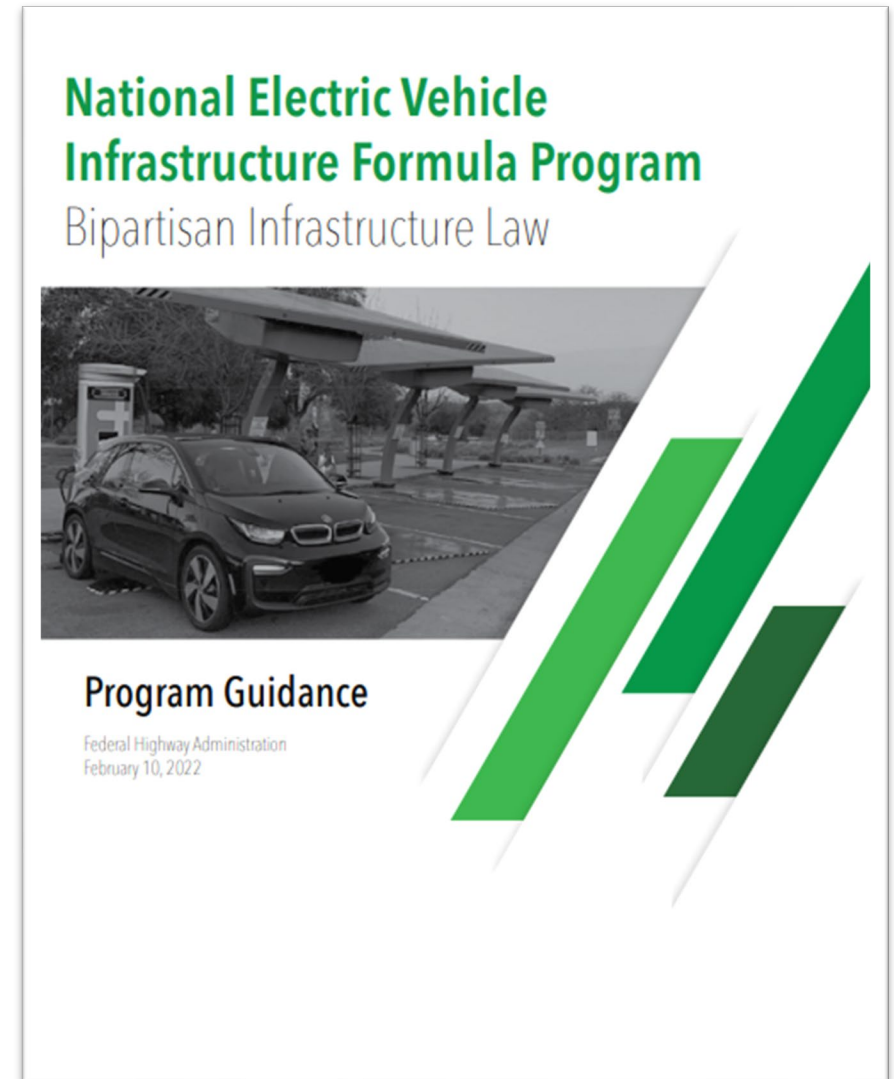
MnDOT Office of Sustainability & Public Health

Beth Kallestad | Principal Sustainability Planner



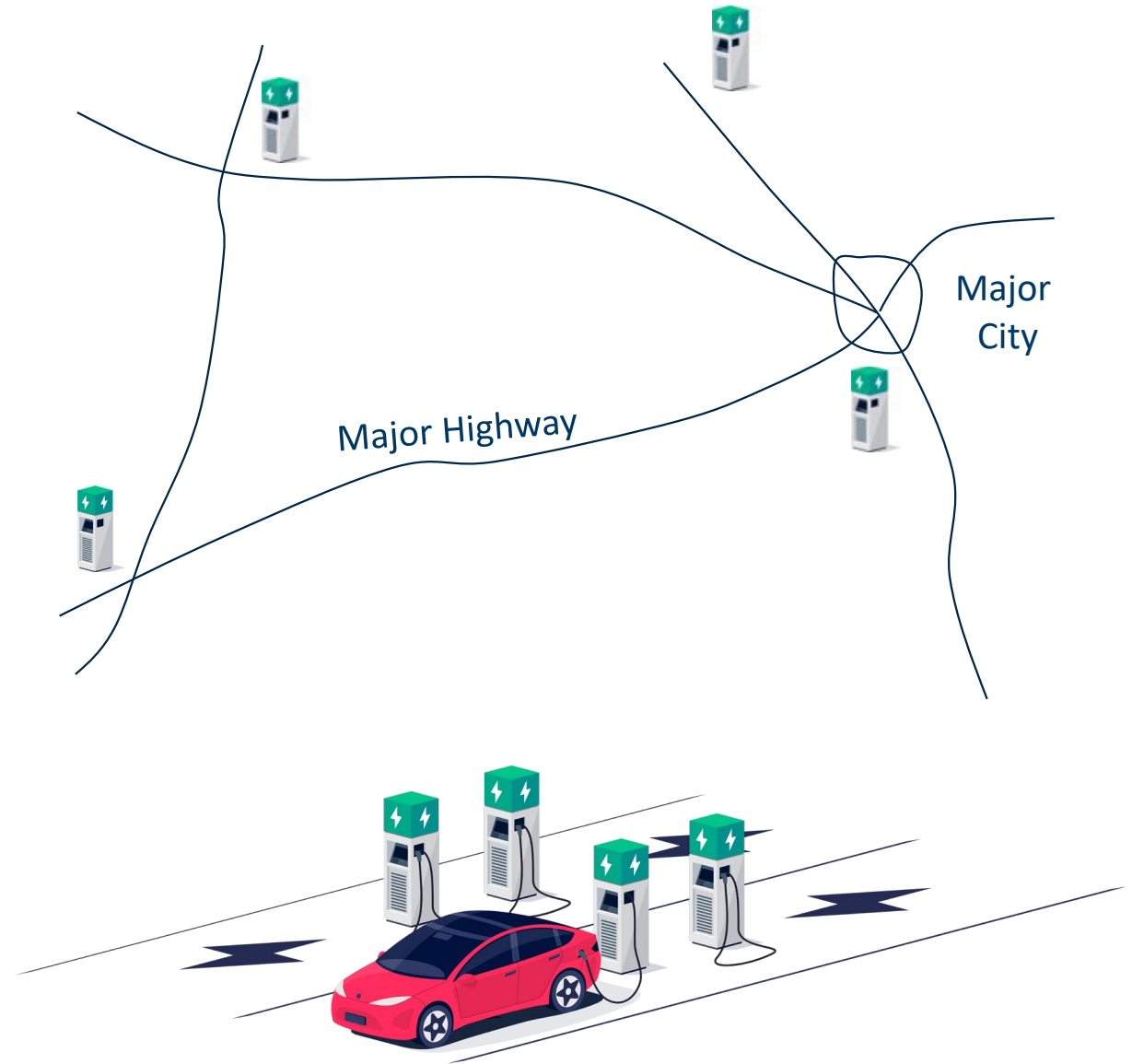
What is NEVI?

- New federal program authorized under the Bipartisan Infrastructure Law - November 2021
- Provides funds to states to install DC fast chargers along designated corridors
- Convenient, affordable, reliable and equitable public charging network
- Federal appropriation for Minnesota is \$68 million for federal FY 22 – 26
- 20% non-federal match and state legislative spending authorization required
- MN Plan approved September 14, 2022



So how does the NEVI program work?

- Funding must be used to build out Alternative Fuel Corridors (AFCs) first before spent on non-AFC corridors
- MnDOT's first round of funding will focus on the build-out of NEVI compliant chargers along the existing AFCs in Minnesota: I-94 and I-35
- Charger requirements for full build out
 - DC Fast Charging
 - Located every 50 miles
 - Located <1-mile driving distance from AFCs
 - 4 -150 kW fast charging ports at each site
- **Third-parties will own, operate and maintain the stations.**



National Electric Vehicle Infrastructure (NEVI) Program



FY22/FY23 EV Infrastructure Deployment Plans

Formula Program Guidance

Resources

Contacts

For more information, please contact:

- [Diane Turchetta](#)
- [Suraiya Motsinger](#)
- [William Stein](#)

[FHWA](#) → [Environment](#)

National Electric Vehicle Infrastructure (NEVI) Program

The Bipartisan Infrastructure Law (BIL), enacted as the Infrastructure Investment and Jobs Act (IIJA), Public Law 117-58 (Nov. 15, 2021) makes the most transformative investment in EV charging in United States (U.S.) history that will put us on a path to a nationwide network of 500,000 EV chargers by 2030 that ensures a convenient, affordable, reliable, and equitable charging experience for all users.

National Electric Vehicle Infrastructure Formula Program Documents

- [The National Electric Vehicle Infrastructure \(NEVI\) Formula Program Guidance](#) Updated: 6/2/2023
- [State Plan/State Plan Update for Electric Vehicle \(EV\) Infrastructure Deployment Template](#) Updated: 6/2/2023
- [NEVI Formula Program Q&A](#) New: 6/2/2023

The \$5 billion National Electric Vehicle Infrastructure (NEVI) Formula Program will provide dedicated funding to States to strategically deploy EV charging infrastructure and establish an interconnected network to facilitate data collection, access, and reliability. Initially, funding under this program is directed to designated Alternative Fuel Corridors for electric vehicles to build out this national network, particularly along the Interstate Highway System. When the national network is fully built out, funding may be used on any public road or in other publicly accessible locations.

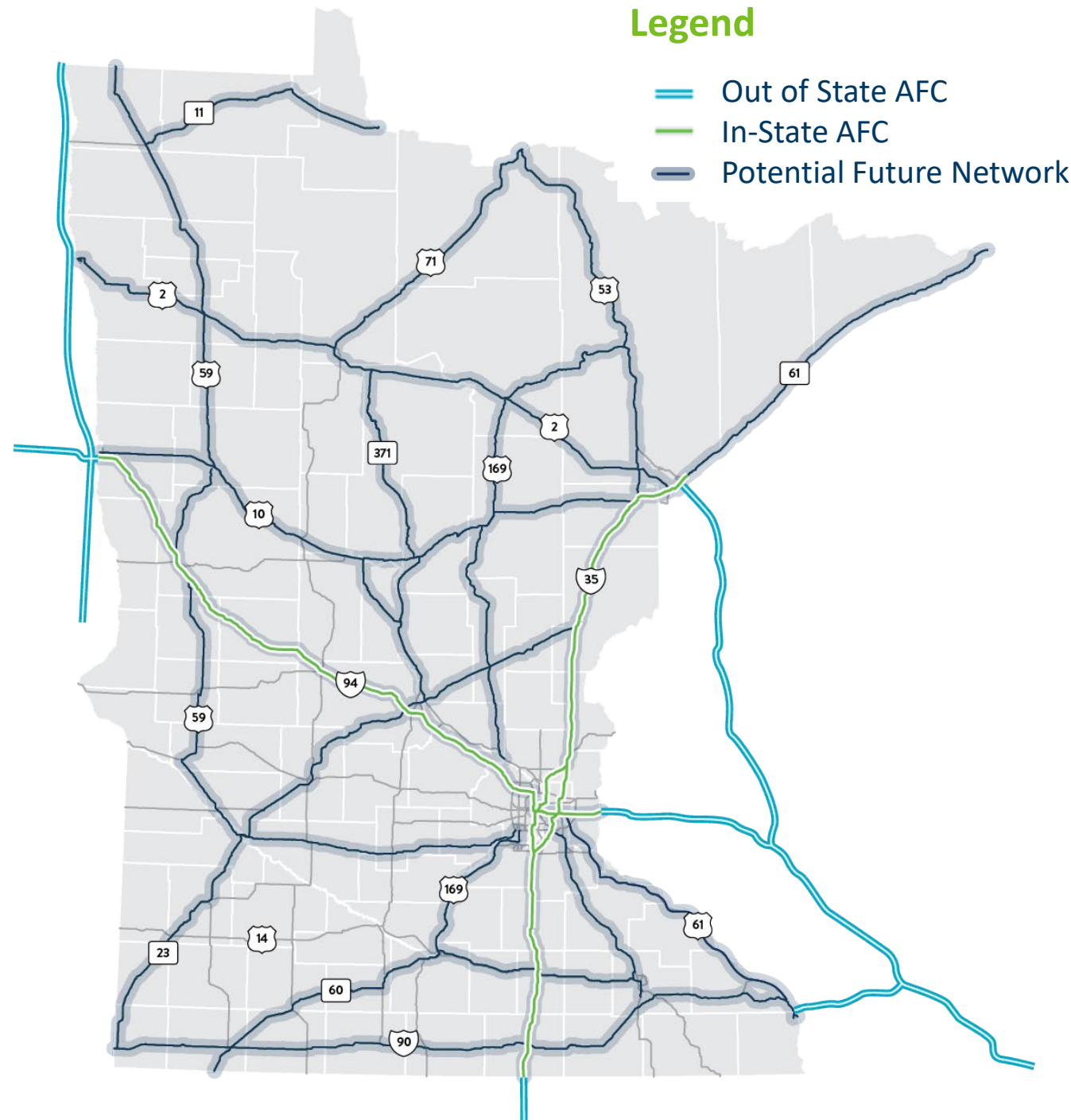
Related Links

- [Joint Office of Energy and Transportation](#)
- [Alternative Fuel Corridors](#)
- [EV Charging Minimum Standards Final Rule](#)
- [Build America Buy America Implementation Plan to Enhance Buy America Standards for EV Charging](#)
- [FY22/23 EV Infrastructure Deployment Plan Approvals](#)

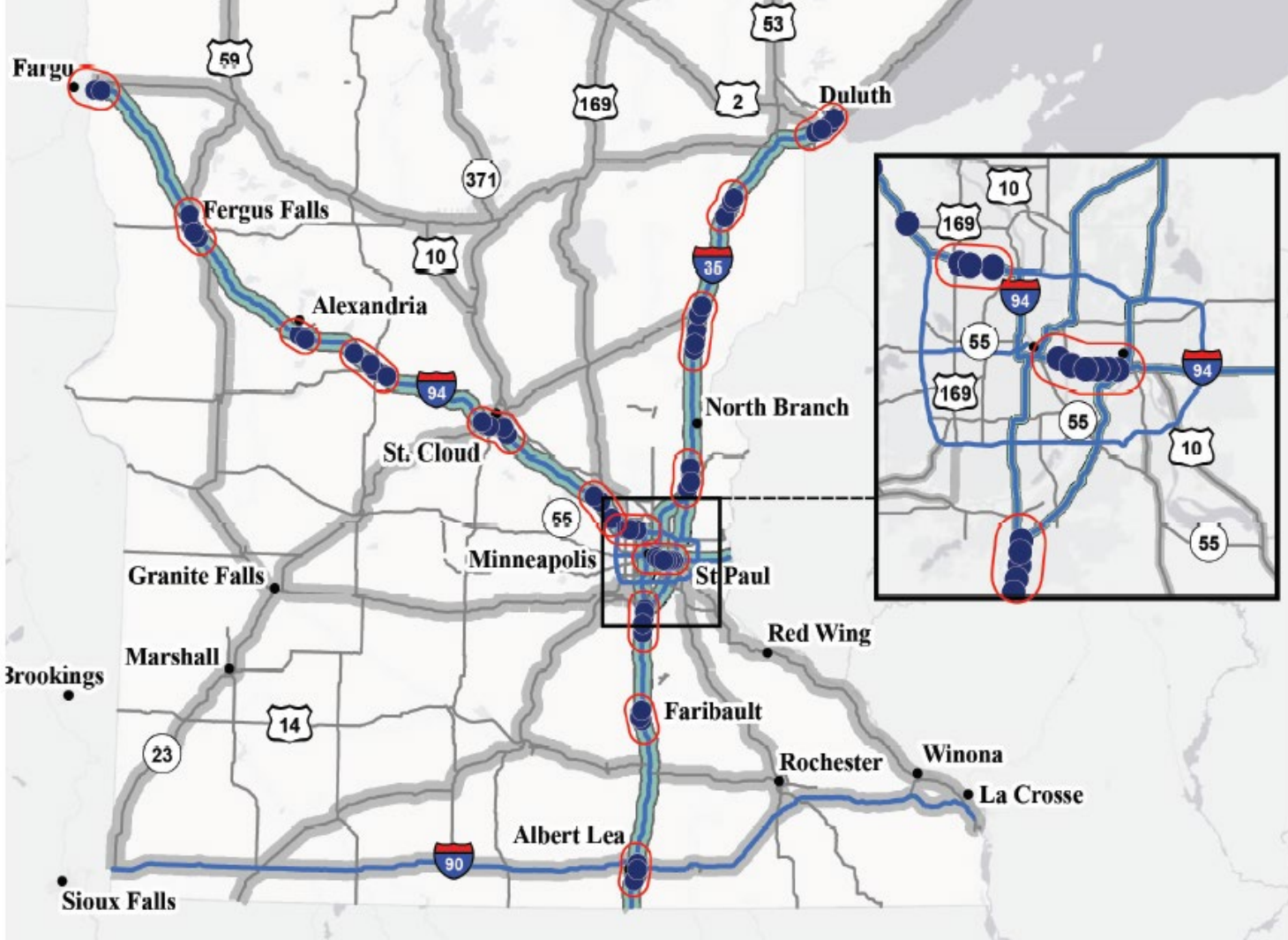
Minnesota EV Fast Charging Network Vision

Includes all potential corridors for investment with the \$68 million of NEVI funds (FY 2022-2026)

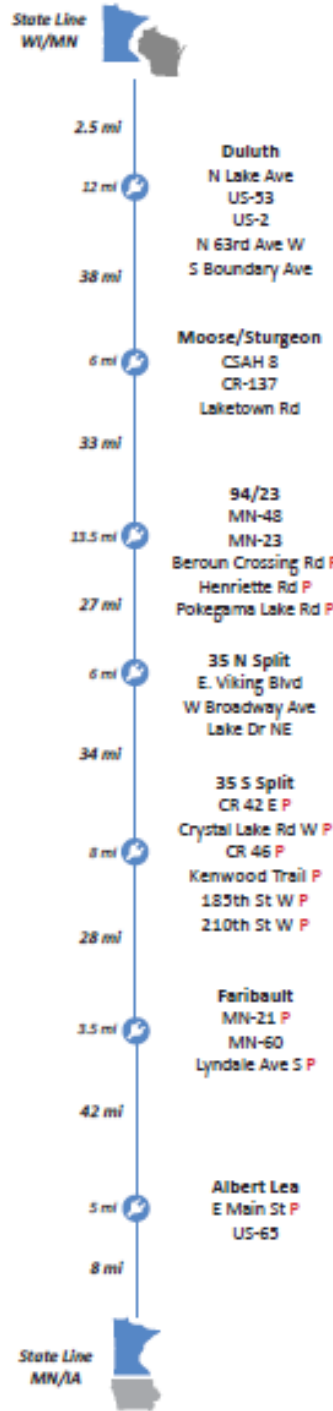
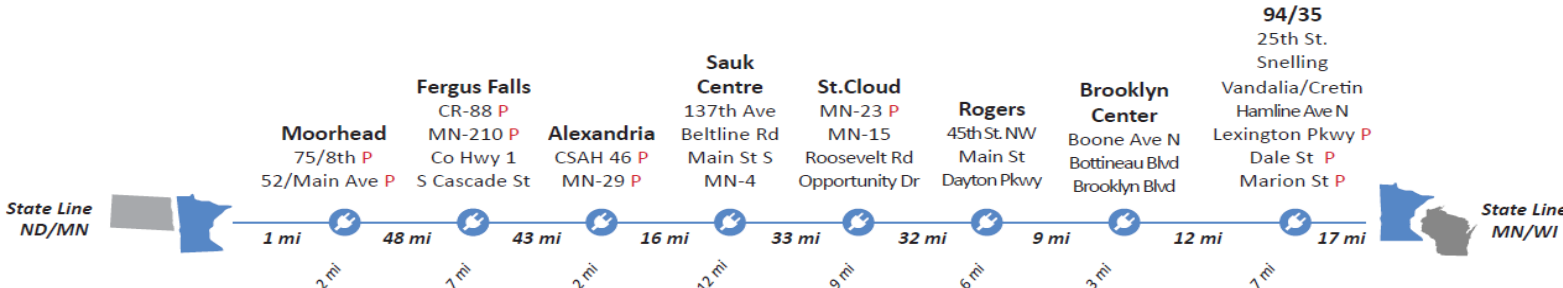
- Promotes coverage across the state
- Prioritizes roadways that serve long distance travel
- Creates a network that connects to other networks
- Recognizes both rural and urban communities
- Serves current and future EV drivers



Fast Charger Locations: I-94 and I-35 in 2022 plan



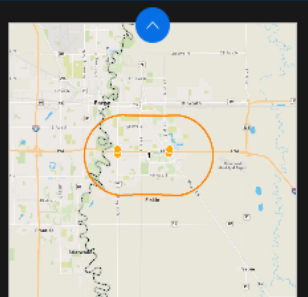
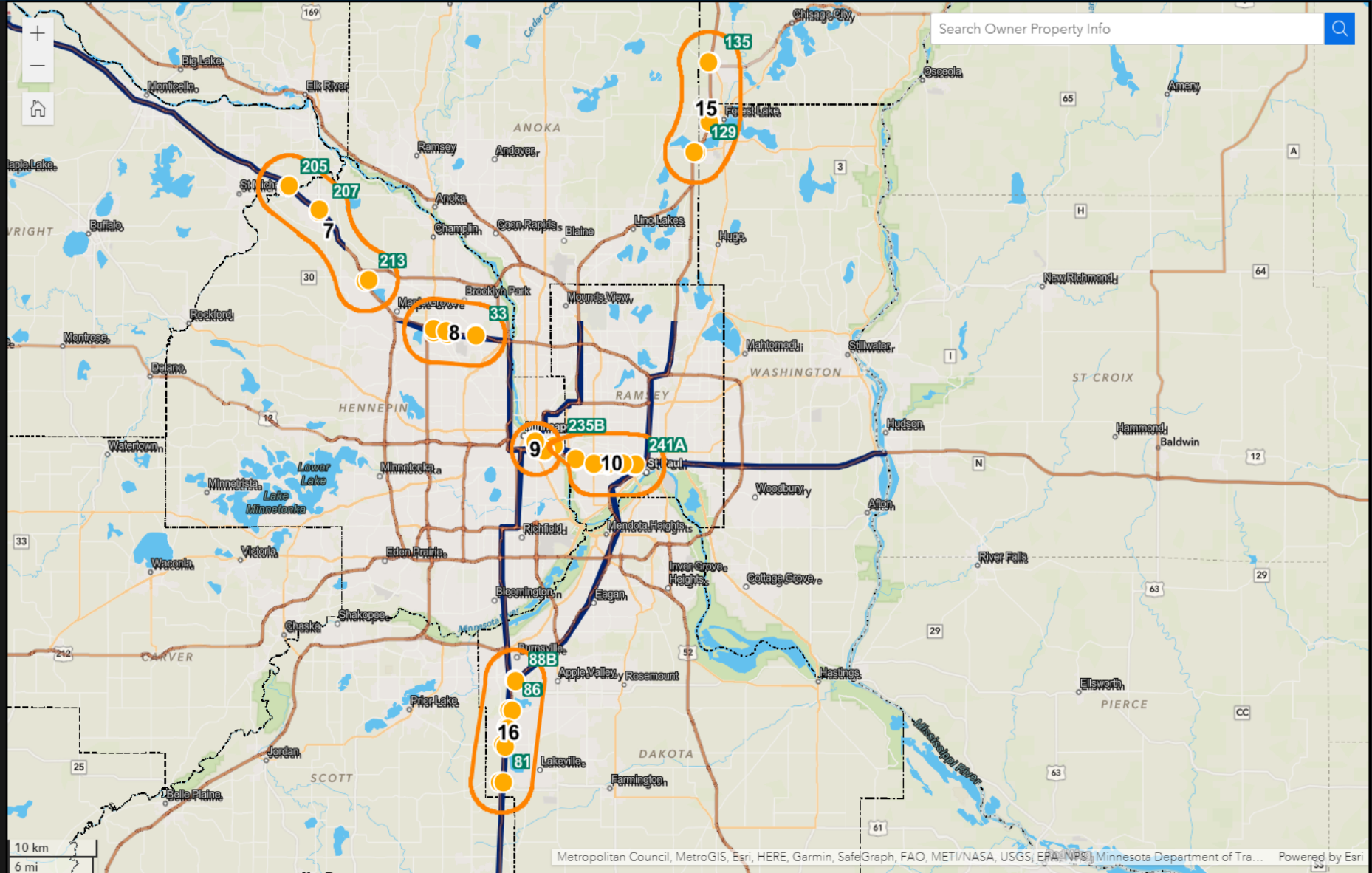
P – 600kW load verified available per utility input



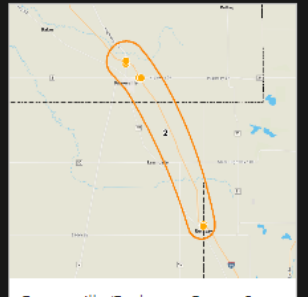
MnDOT NEVI Potential Sites Information

- Layers**
- Cluster Group
 - Potential Site
 - Locations for EV Charging Stations
 - Service Distance Lines (0.5/1 Mile)
 - Hybrid Reference Layer
 - Alternative Fuel Corridors
 - Existing Electric Vehicle Charging Station
 - Existing Alternative Fueling Station

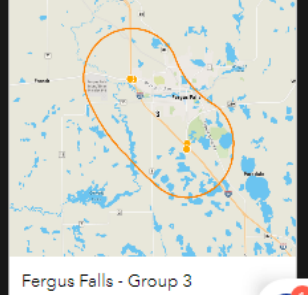
- Cluster Group**
- Moorhead - Group 1
 - Barnesville/Rothsay - Group 2
 - Fergus Falls - Group 3
- Potential Site Locations for EV Charging Stations**
- Yellow dot
- Alternative Fuel Corridors**
- Blue line
- County Boundaries**
- County



Moorhead - Group 1



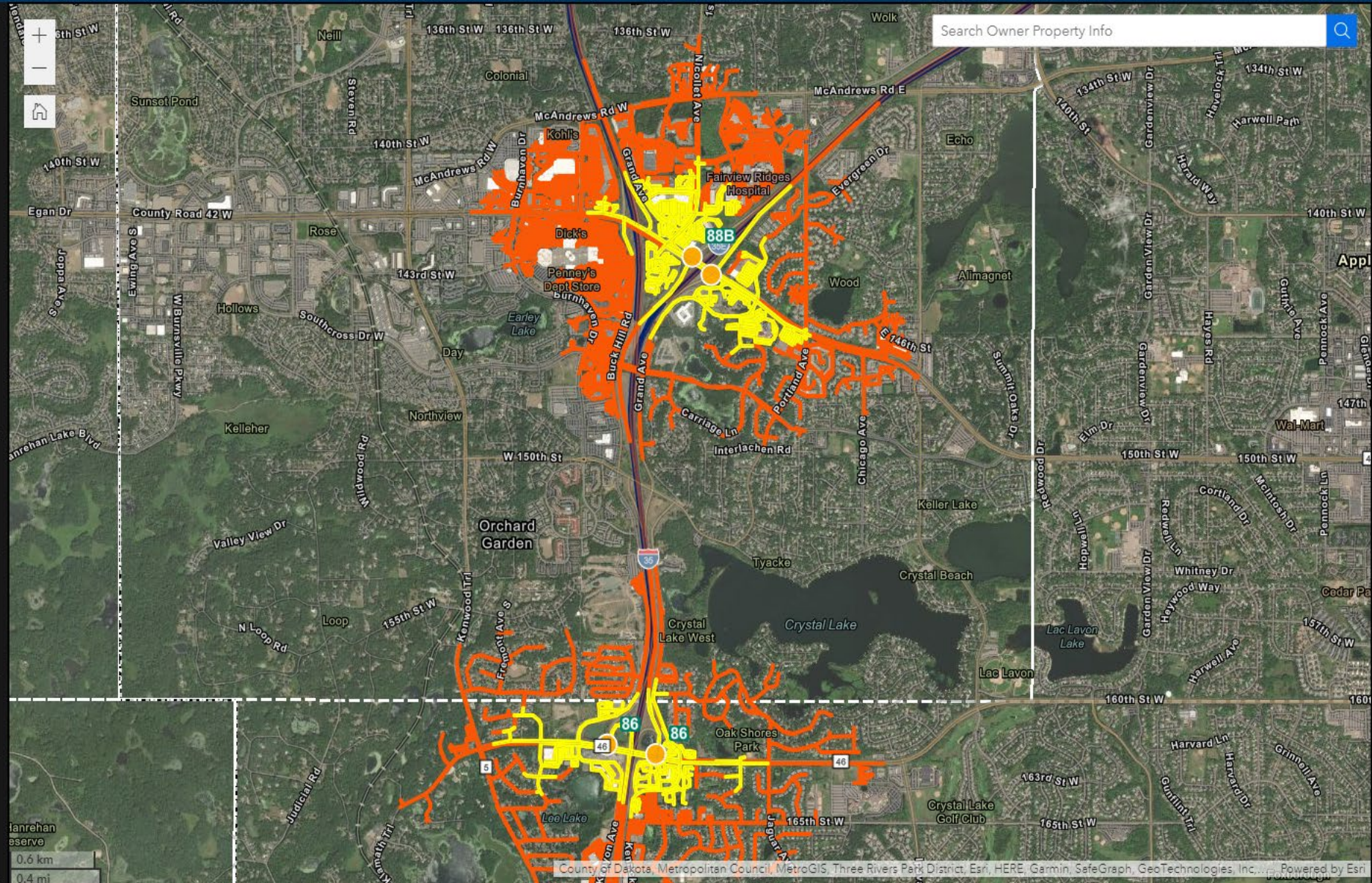
Barnesville/Rothsay - Group 2



Fergus Falls - Group 3

- Investigation Sites
 - Minnesota Groundwater Contamination Atlas
 - Assessed Waters
 - NWI Wetlands
 - FEMA Flood Hazard Areas
 - Electric Utility Service Areas
 - County Boundaries
 - Municipalities
 - Base Roads Datasets

- Potential Site Locations for EV Charging Stations
 -
- Service Distance Lines (0.5/1 Mile)
 - 0.5
 - 1
- Alternative Fuel Corridors
 -
- County Boundaries
 - County



Moorhead - Group 1

Barnesville/Rothsay - Group 2

Fergus Falls - Group 3

Cost Estimate

- Charger costs assume a full NEVI-compliant build-out of (4) 150kW chargers
- A range of costs have been identified
 - Setting (urban and un-developed rural will cost the most, developed but expandable the least)
 - Range from \$1,200/kW - \$2,000/kW
- The assumed planning-level cost per station is \$900,000 (\$1,500/kW)
 - I-94 (8 stations) = \$7.2M
 - I-35 (8 stations) = \$7.2M
 - Initial Build Out: \$14.4M (Slightly more than Year 1 + Match)



2023 Legislative Session

2023 Legislative Session - Chapter 68 – Transportation Omnibus Bill

Section 69 Sec. 69.

[174.47] ELECTRIC VEHICLE INFRASTRUCTURE PROGRAM.

Subd. 3. Authority to contract.

The commissioner may enter into an agreement with any private or public entity to provide financial assistance for, or engage in the planning, designing, developing, hosting, constructing, equipping, operating, or maintaining of, electric vehicle infrastructure, including but not limited to environmental studies, preliminary engineering, final design, construction, and developing financial and operating plans.

2023 Legislative Session

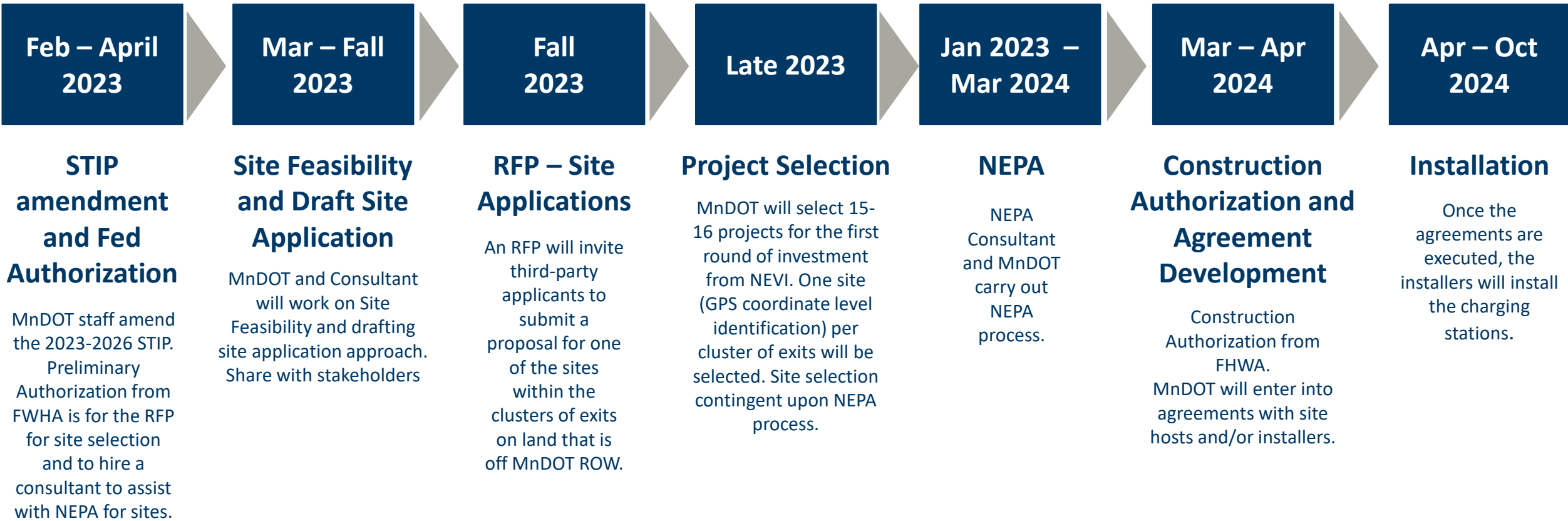
Subd. 4 Program Requirements

- (a) The commissioner must require that electric vehicle infrastructure funded under the program is constructed, installed and maintained in conformance with the requirements under Code of Federal Regulations, title 23, section 680.106, paragraph (j), or its successors*
- (b) An electric vehicle infrastructure project that receives funds under the program is subject to the requirement of paying the prevailing wage rate as defined in section 117.42 and the requirements and enforcement provisions in sections 177.27, 177.30, 177.32, 177.41 to 177.435, and 177.45 (*

Subd. 5 Report – (a) Every even-numbered year by February 1, to the chairs of and ranking minority members of the legislative committees with jurisdiction over transportation policy and finance regarding the electric vehicle infrastructure program.

Match Funding – FY 24 and FY 25 available through June 30, 2027– part of language for multiple IJA programs, details soon.

Installing chargers along I-94 and I-35 (dates may shift)



FHWA Memo Alternative Fuel Corridor- Round 7

- Round 7 Nominations Opened May 18
- Responses due June 21, 2023
- Focus on Interstates
- Questions about Freight Network

MnDOT Decision

- We will not be nominating any additional roads as AFC for EVs in Round 7
- First stations on I-94 and I-35 ~ summer/fall 2024
- Uncertain what response to first round of funding will be
- New to working with grant funds to private industry and need to gain understanding
- Committed to providing a standardized charging experience.
- Open to nominating AFCs in future rounds
- Continue to engage with partners statewide and develop better understanding of statewide needs/gap analysis

<https://talk.dot.state.mn.us/ev-infrastructure-plan>

Stay Informed

The screenshot shows a web browser window displaying the Minnesota Department of Transportation's website. The page title is "Electric Vehicle Infrastructure Plan". The navigation bar includes "Home", "About this site", "Related sites", a search box, and "Sign in Register". The main content area features a section titled "Electric Vehicle Infrastructure Plan" with social media icons and a paragraph explaining the NEVI Formula Program. Below this is a section for "New federal program" and "Our state's plan". A red circle highlights a "STAY INFORMED" call-to-action box containing a megaphone icon, the text "STAY INFORMED", "Subscribe for email updates", and a "Subscribe" button. To the right, there are sections for "Key dates" and "Important links". The Windows taskbar is visible at the bottom.

Home / Electric Vehicle Infrastructure Plan

Electric Vehicle Infrastructure Plan

Part of the bipartisan infrastructure law created the National Electric Vehicle Infrastructure (NEVI) Formula Program. That program provides funds for states to install fast chargers for electric vehicles (EVs).

New federal program

In Minnesota, we expect to invest about \$68 million from this program over five years, along with a 20% non-federal match. To be eligible for the federal program, Minnesota submitted a Statewide Electric Vehicle Infrastructure Plan on July 29, 2022. The plan was approved on Sept. 14, 2022.

Our state's plan

Our plan identifies investments in fast charging along Minnesota's existing Alternative Fuel Corridors (AFCs) — I-94 and I-35. At first, we'll focus on light-duty EV charging needs. In 2023, we'll update the plan to address medium- and heavy-duty EVs.

- [Minnesota Electric Vehicle Infrastructure Plan Overview \(PDF\)](#)
- [Minnesota Electric Vehicle Infrastructure Plan \(PDF\)](#)
- [Appendix \(PDF\)](#)

Get involved

- [Sign up for email updates](#)

NEWS FEED SURVEY QUESTIONS

STAY INFORMED

Subscribe for email updates

Subscribe

Key dates

- MnDOT submits plan to FHWA
August 01 2022
- Minnesota EV Infrastructure Plan Approved
September 14 2022
- Site Feasibility Analysis - January ~ May 2023
January 2023
- Solicitation for site applications (tentative)
July 2023
- Site selection decisions made (tentative)
September 2023

Important links

- [NEVI Guidance](#)
- [Minnesota EV Dashboard](#)

Minnesota Electric Vehicle Infrastructure Plan Site Feasibility and

3:14 PM 3/29/2023

Interested Partners List

- EV Infrastructure Plan webpage
- Surveys & Forms tab
- Fast Charging Station Interested Partners list
- Will post the list and update on 15th of each month under Project Documents

The screenshot shows a web browser window with the URL talk.dot.state.mn.us/ev-infrastructure-plan?tool=survey_tool#tool_tab. The page has a navigation bar with three tabs: 'NEWS FEED', 'SURVEYS & FORMS', and 'QUESTIONS'. The 'SURVEYS & FORMS' tab is highlighted with a red circle. Below the navigation bar, there is a section titled 'Fast Charging Station - Interested Partners List' highlighted in yellow. The text in this section reads: 'MnDOT is providing an opportunity for organizations and businesses that are interested in developing fast charging stations, as part of the Minnesota Electric Vehicle Infrastructure Plan, a way to find each other by offering a list on this website. Any organization wishing to be added to the list must complete the following survey. MnDOT will not be actively connecting organizations too each other. This information will be displayed on this webpage as a spreadsheet and will be updated the 15th of each month.' Below this, there is a note about federal program requirements and applicable state and federal requirements, such as [chapter 1 of title 23, United States Code](#) and [2 Code of Federal Regulations\(CFR\) 200](#). Among other provisions, [2 CFR 200.319](#) requires that subcontractors be selected through a competitive process and are subject to the administrative requirements, cost principles, and audit requirements in place for federal awards. Interested parties should review the [National Electric Vehicle Infrastructure Formula Program Guidance\(FHWA, Feb 2022\)](#) and the [EV Charging Minimum Standards Rule](#).

On the right side of the page, there is a sidebar with two sections: 'Important links' and 'Project documents'. The 'Important links' section includes: 'Fast Charging Interested Parties List - Sign Up', 'FHWA- National Electric Vehicle Infrastructure Program', and 'Minnesota EV Dashboard'. The 'Project documents' section includes: 'October Stakeholder Meeting Q&A', 'October Stakeholder Meeting Slides', 'October Stakeholder Meeting Agenda', 'Minnesota Electric Vehicle Infrastructure Plan Overview', 'Minnesota Electric Vehicle Infrastructure Plan Appendix', and 'Minnesota Electric Vehicle Infrastructure Plan'.

Next Steps

- Complete Site Feasibility ~ end of July
- Annual Plan Update due August 1
- Site Application RFP ~ early Fall

Email: elizabeth.croteau.kallestad@state.mn.us

Thank You

