

Minnesota Electric Vehicle Infrastructure Plan

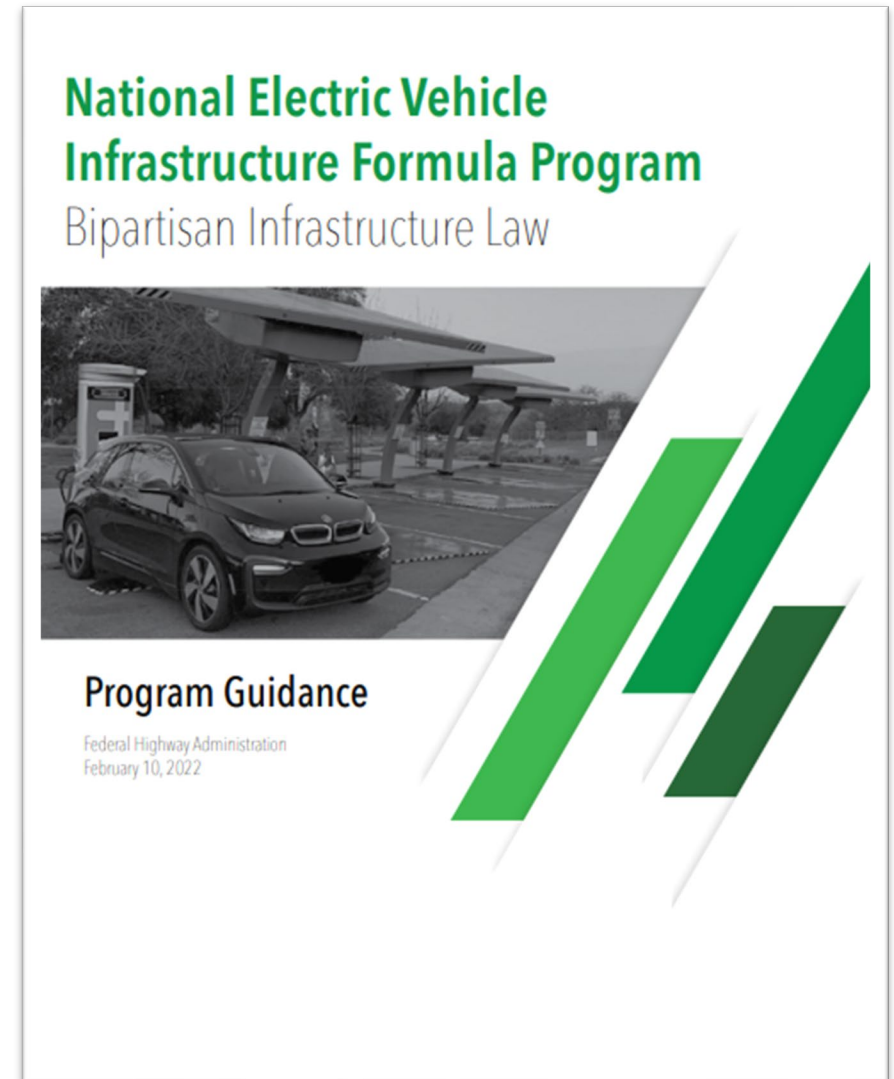
MnDOT Office of Sustainability & Public Health

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What is NEVI?

- New federal program authorized under the Bipartisan Infrastructure Law
- Provides funds to states to install DC fast chargers along designated corridors
- Federal appropriation for Minnesota is \$68 million for federal FY 22 – 26
- 20% non-federal match and state legislative spending authorization required
- Plan submitted to new Joint Office of Energy and Transportation by Aug 1 to access formula funds
- **MN Plan approved September 14, 2022**



National Electric Vehicle Infrastructure (NEVI) Program



- FY22/FY23 EV Infrastructure Deployment Plans
- Formula Program Guidance
- Resources

FHWA → Environment

National Electric Vehicle Infrastructure (NEVI) Program

EV Charging Minimum Standards

[EV Charging Minimum Standards Final Rule](#)

Build America Buy America Implementation Plan to Enhance Buy America Standards for EV Charging

[Build America Buy America Implementation Plan to Enhance Buy America Standards for EV Charging](#)

NEVI Deployment Plan Approvals

[FY22/23 EV Infrastructure Deployment Plan Approvals](#)

Related Links

- [Joint Office of Energy and Transportation](#)
- [Alternative Fuel Corridors](#)

Contacts

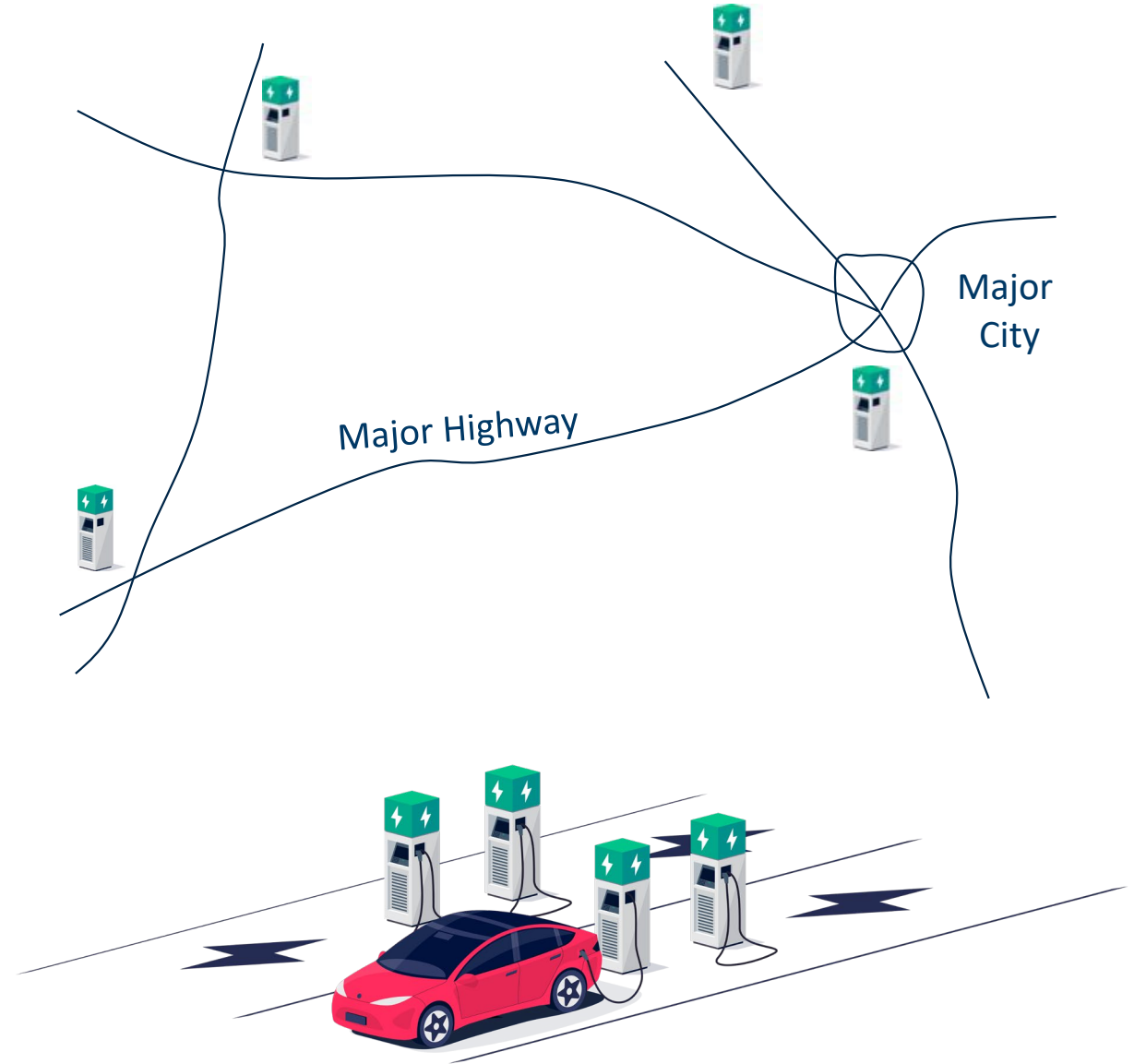
For more information, please contact:

- Suraiya Motsinger
- William Stein
- Neelam Patel

The Bipartisan Infrastructure Law (BIL), enacted as the Infrastructure Investment and Jobs Act

So how does the NEVI program work?

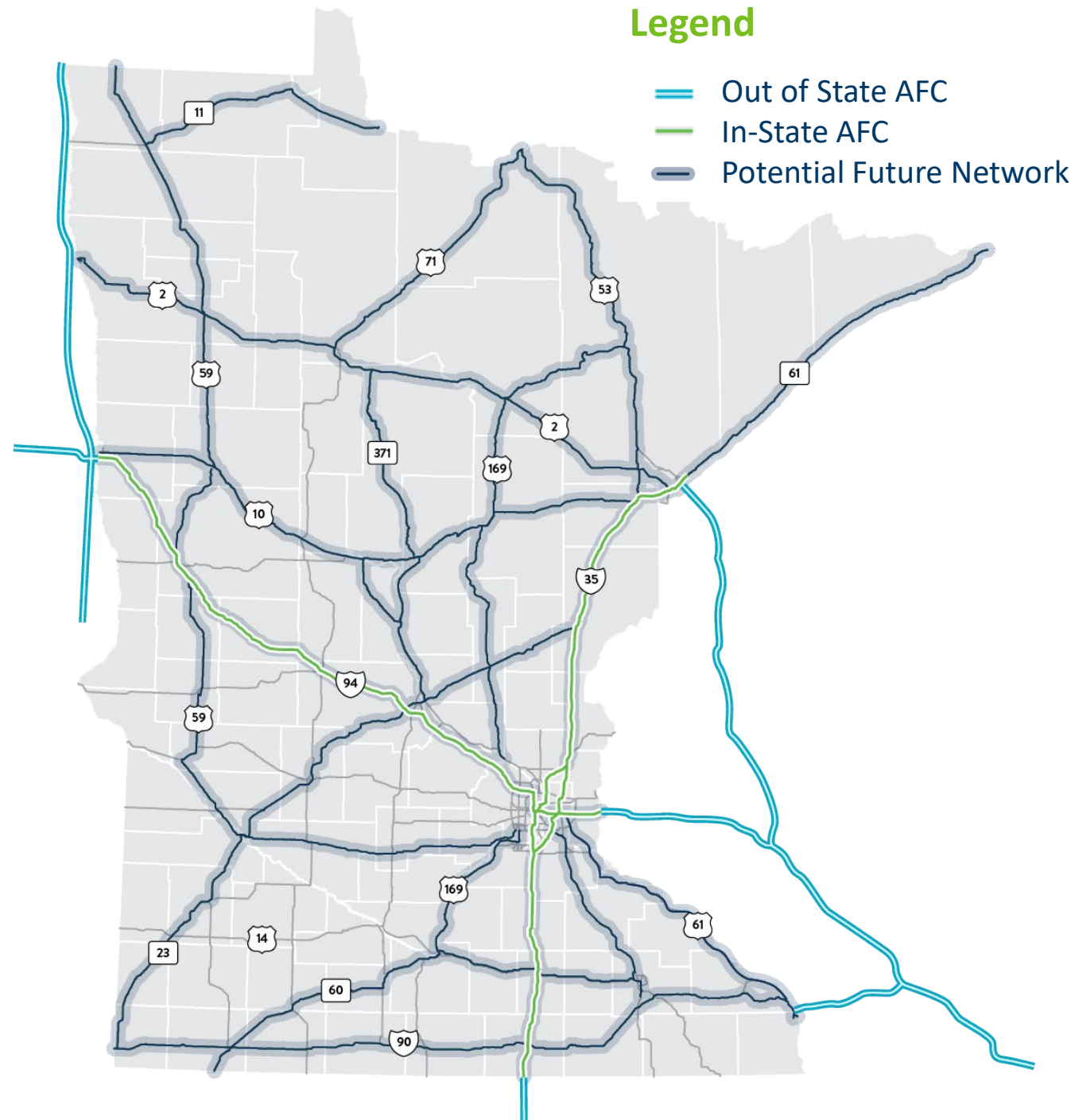
- Funding must be used to build out Alternative Fuel Corridors (AFCs) first before spent on non-AFC corridors
- Charger requirements for full build out
 - Level 3 DC Fast Charging
 - Located every 50 miles
 - Located <1-mile from AFCs
 - 4 150 kW fast chargers at each site
- MnDOT's first year of funding will focus on the build-out of NEVI compliant chargers along the existing AFCs in Minnesota: I-94 and I-35
- Third-parties will be site host/service providers of the stations –MnDOT will not own, operate or maintain.



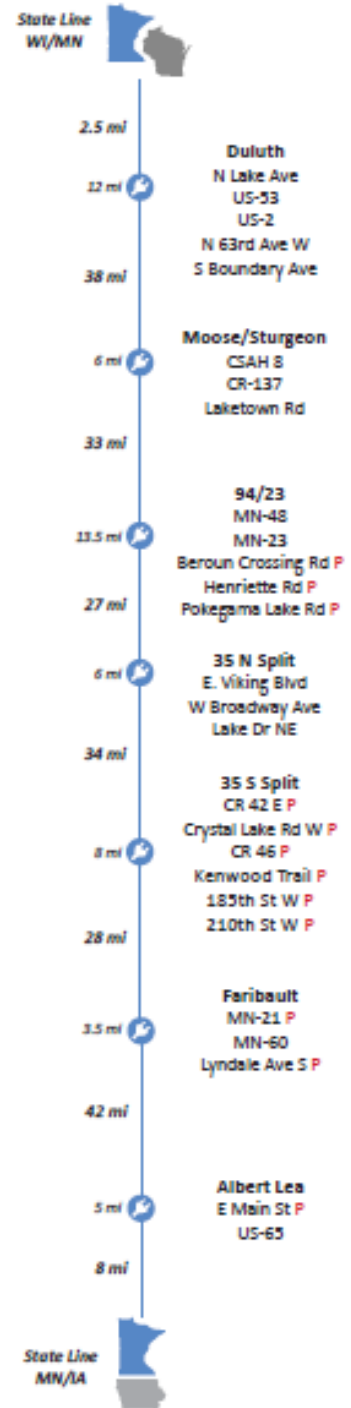
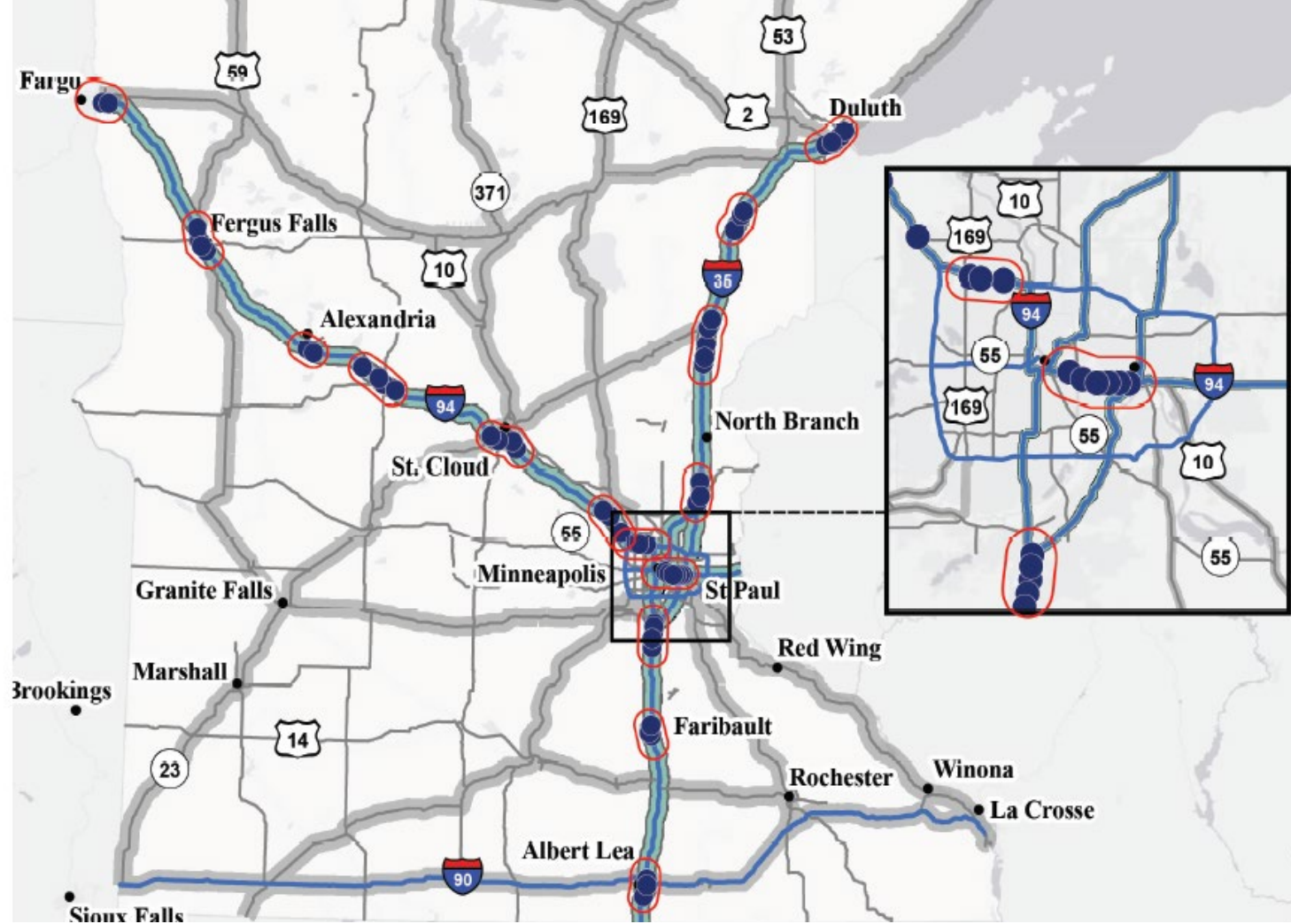
Minnesota EV Fast Charging Network Vision

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

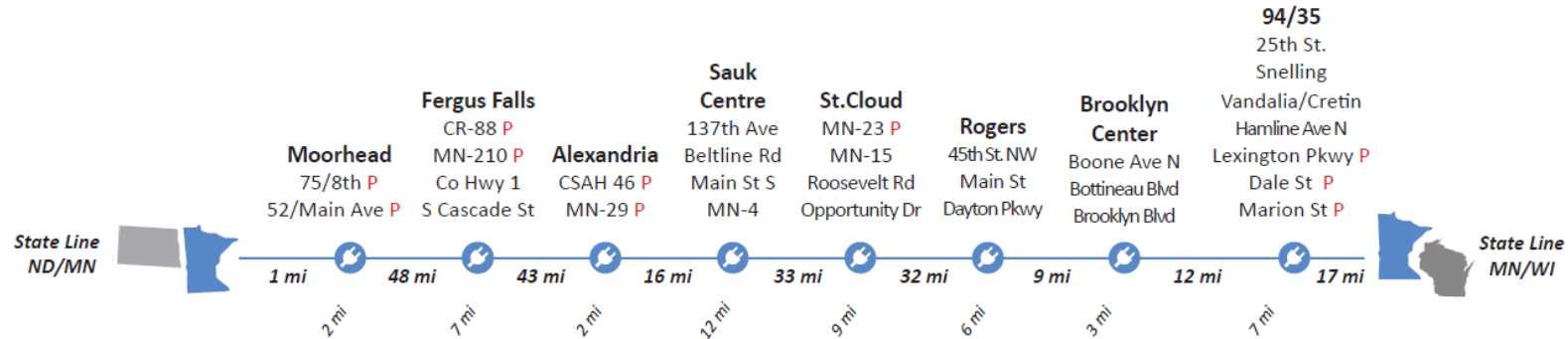
- Promotes coverage across the state
- Prioritizes roadways that serve long distance travel
- Creates a network that connects to other networks
- Recognizes both rural and urban communities
- Serves current and future EV drivers



Fast Charger Locations: I-94 and I-35

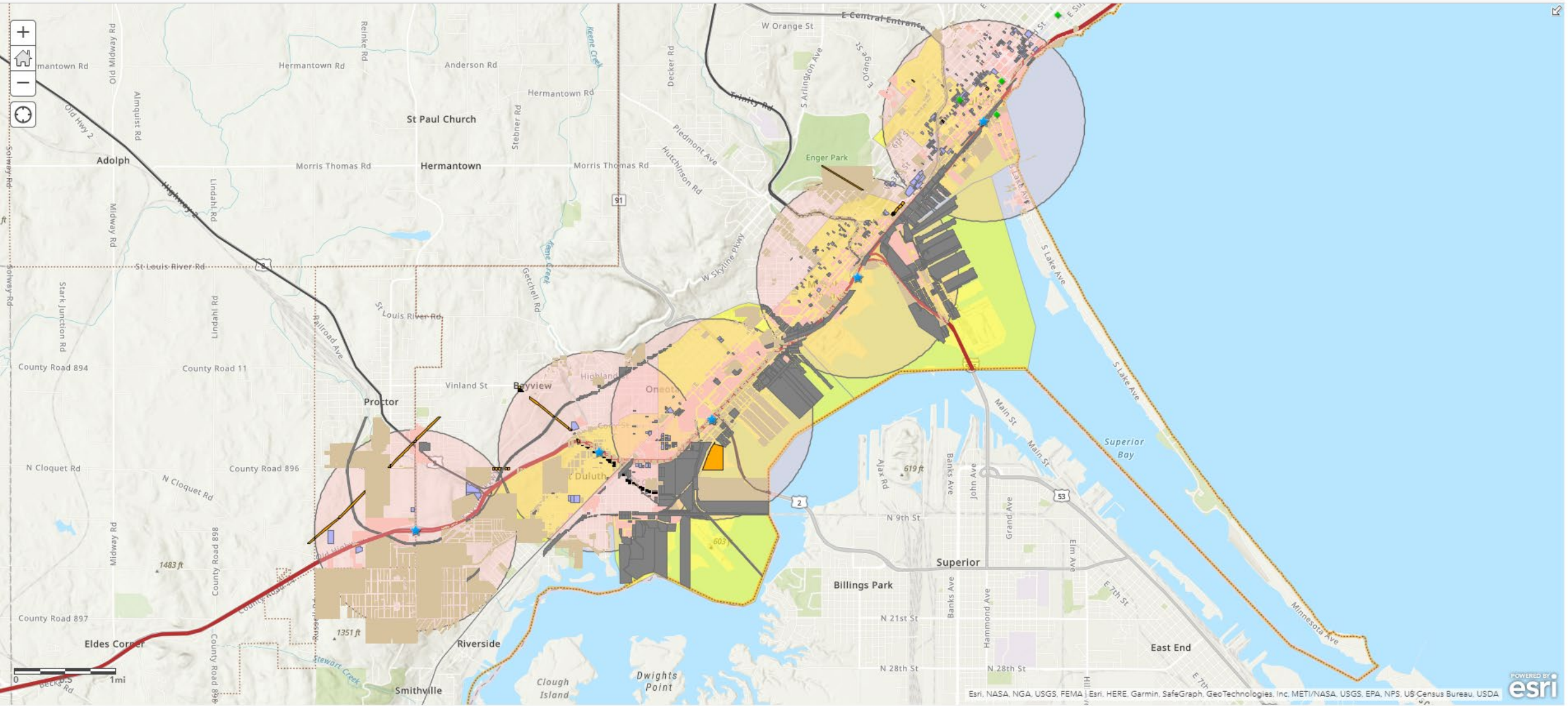


P – 600kW load verified available per utility input



Electric Vehicle Charging Station Site Analysis_NEW

Details
Add
Basemap
Analysis
Save
Share
Print
Measure
Bookmarks

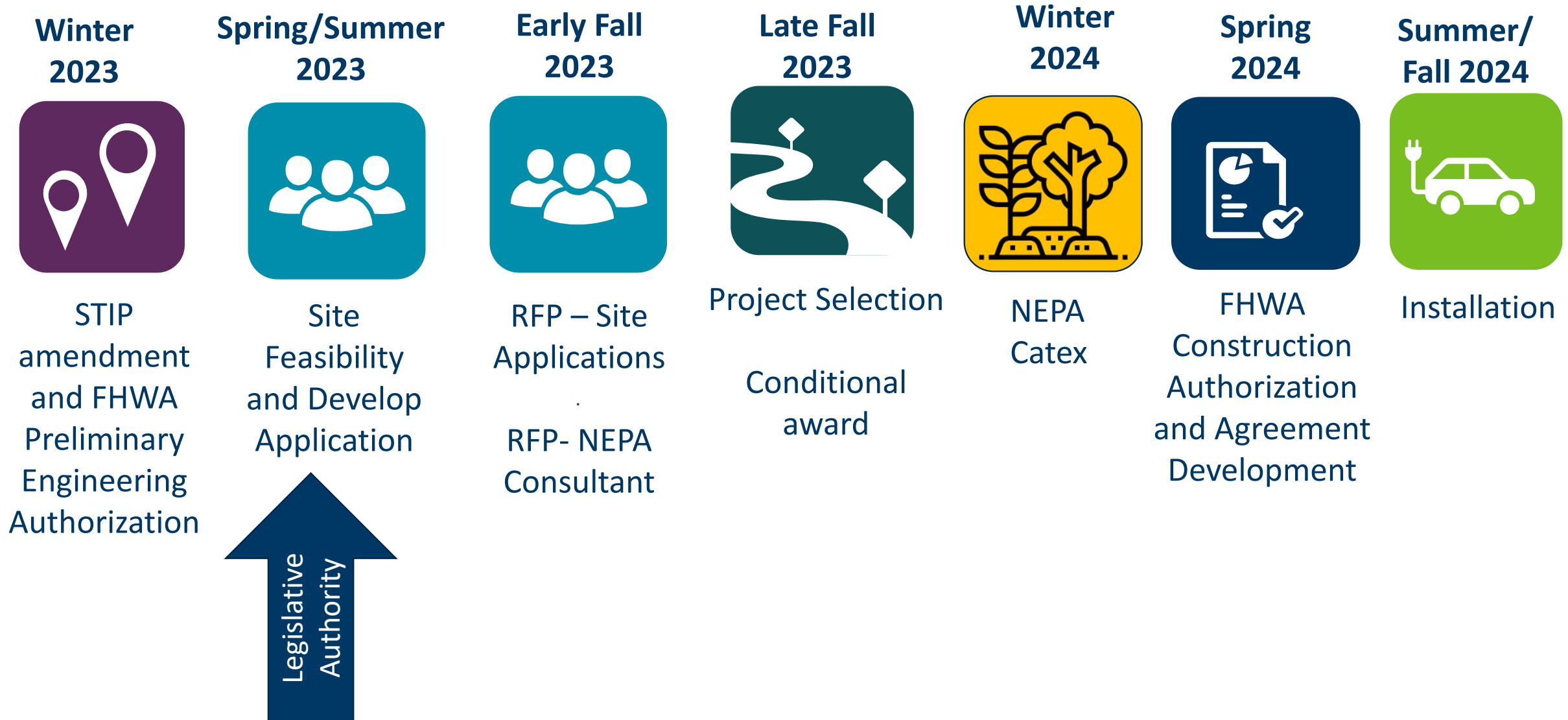


Cost Estimate

- 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)

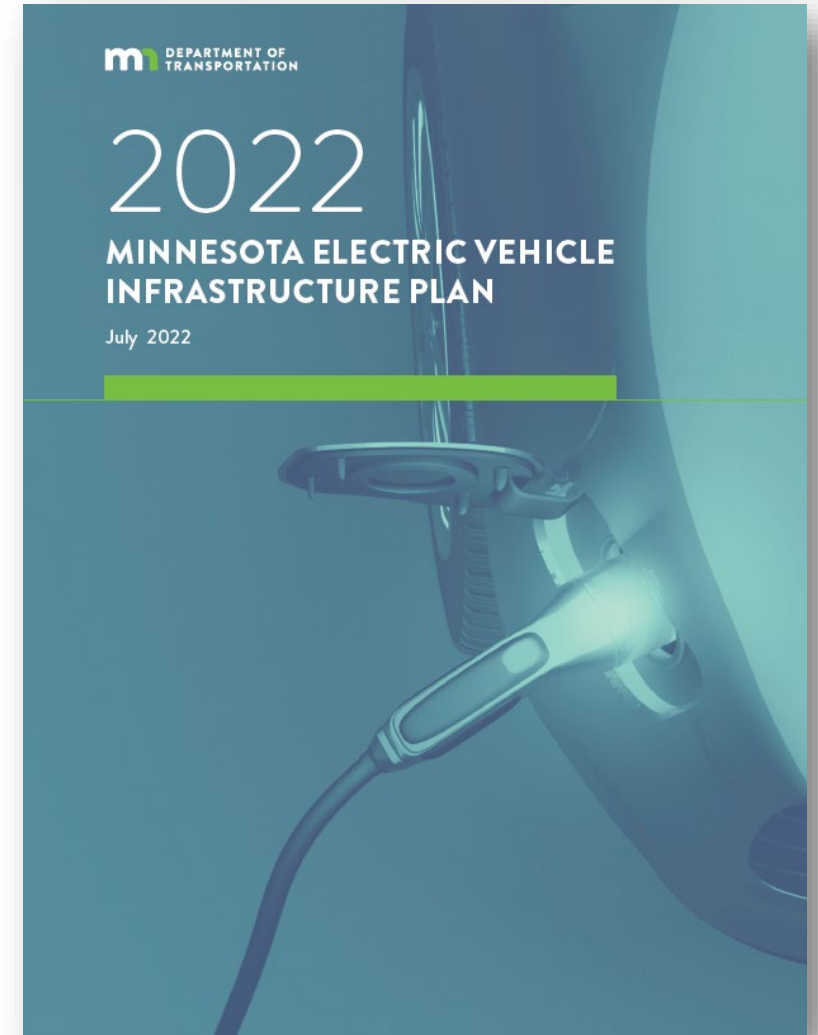


Proposed Implementation Process



Next Steps

- First round of NEVI formula funds investment
 - Consultant-led site feasibility study and consultant-supported competitive selection process
 - Environmental documentation for 16 selected projects
 - Execute agreements for 16 selected projects (~ 2024)
- Ongoing planning
 - AFC nominations ~ Input in spring 2023 (*nomination round date pending from FHWA*)
 - First annual plan update ~ Aug 2023
 - Building out non-AFC roads



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

Register to participate!

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

Thank You

