

# New Hampshire EV Opportunities

Transportation  
Council Hearing  
October 12, 2022



National Electric Vehicle Infrastructure (NEVI)  
A program funded by the Bipartisan  
Infrastructure Law (BIL)

# BIL: EV Infrastructure Programs

\$5 billion NEVI formula funding (\$1B per year over five years)

- DCFC every 50 miles and within 1 travel mile from the highway
- $\geq$  four 150 kW DC output fast chargers with CCS ports capable of simultaneously charging four EVs
- NH 5-year formula funding = \$17,271,581
  - NH Year 1 formula funding = \$2,556,450
  - NH Year 2 formula funding = \$3,678,760
  - NH Year 3-5 formula funding = ~\$3.68M (ant.)
- Cost-share: 80% federal – 20% state/private funds



# NH's FHWA Designated EV Corridors

- I-89
- I-93
- I-95
- F.E. Everett Turnpike
- Spaulding Turnpike/NH SR-16
- US-302
- US-2
- US-4
- NH SR-9
- NH SR-11
- NH SR-12
- NH SR-101
- **US-3**

GSCCC Newsletter Article for more details:

<https://www.granitestatecleancities.nh.gov/happening/documents/news-20200910.pdf>



# Summary of Public Comments



# Summary of Comments

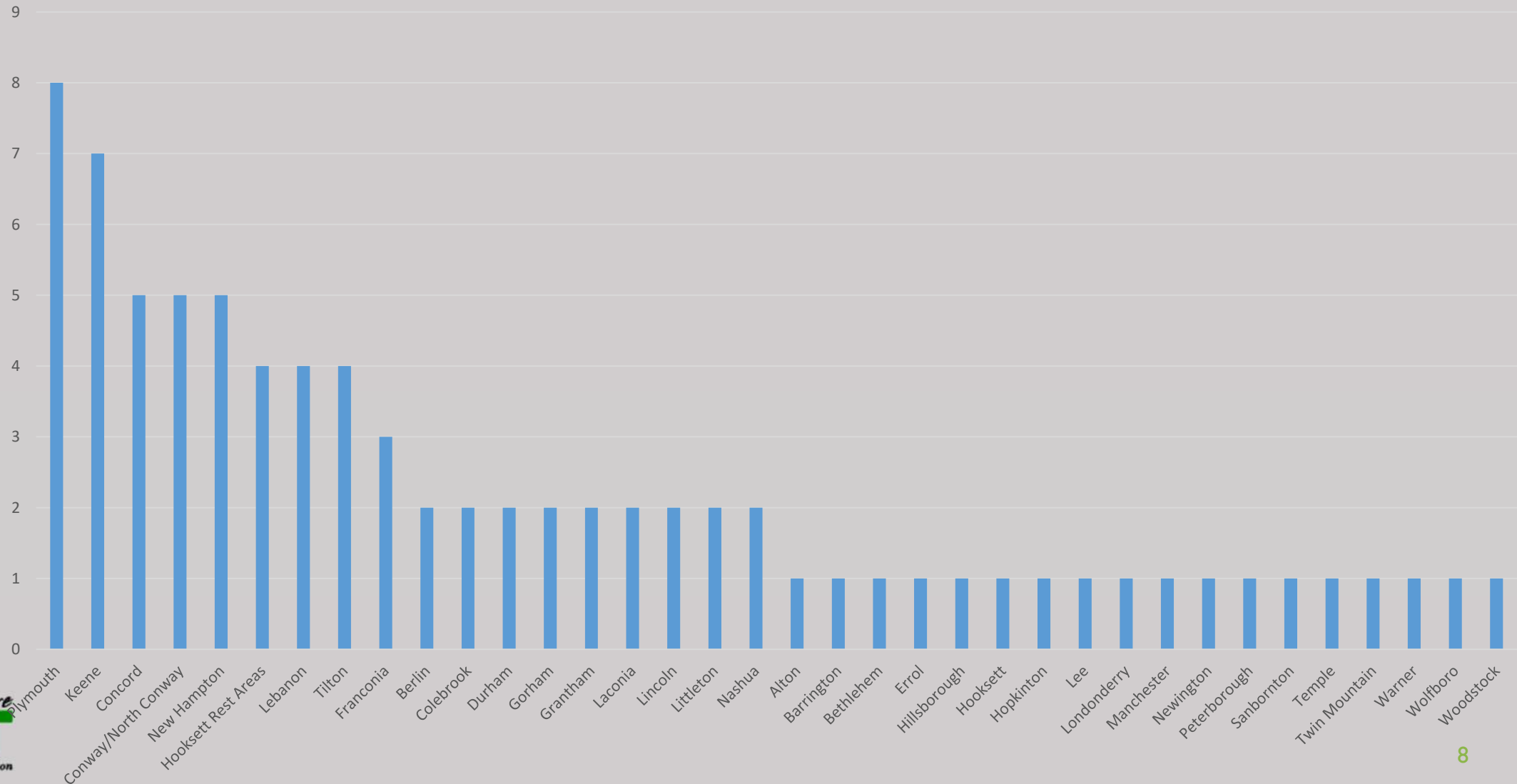
- Comments received in multiple methods
  - 22 in-person or on-line comments on 5-20-2022
  - 106 comments received via email
  - 1 comment received via mail
- Who provided comments:
  - Citizens
  - Regional Planning Commissions
  - Trade Groups
  - Businesses
  - Advocacy Organizations

# Summary of Comments (Cont'd)

- What comments were provided:
  - Vision and Goals
  - Locations
  - NEVI Plan Requirements
- Results
  - Comments were overwhelmingly in favor of Electric Vehicle Supply Equipment (EVSE)
  - Approximately 5% opposed to any form of public funding
  - Corridor and City/Town siting suggestions

# EVSE Suggested Towns/Cities

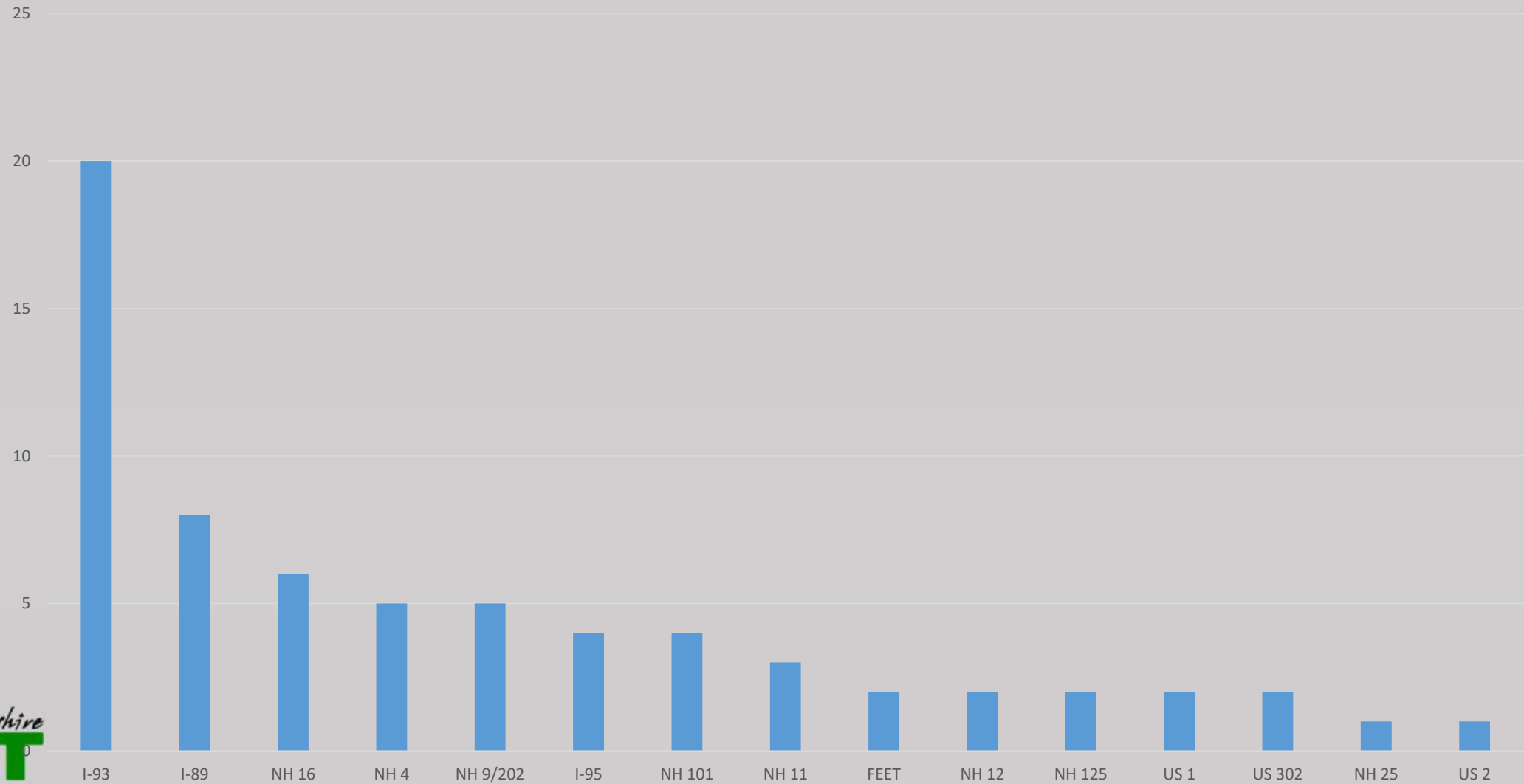
EVSE Suggested Towns/Cities





# EVSE Suggested Corridors

EVSE Suggested Corridors



# General Comment Themes

- General Themes:
  - Residents – support the installation of EVSE
  - Developers – support EVSE and provided potential locations
  - RPC/Planners – support EVSE in urban and rural settings
  - Advocacy Groups – support DAC and EJ40 initiatives

# Comment Recommendations

- Specific Recommendations
  - Site DCFC near retail areas
  - Site chargers (unknown type) near recreation areas
  - Site chargers near Multi-Dwelling Units
  - Need for fleet electrification, especially transit and school buses
  - Consider exceptions to the 50-mile spacing and 1 mile from AFCs
  - Consider Level 2 chargers
  - Use NEVI funds on electric grid
    - Consider Renewable Energy
  - Public-private partnerships

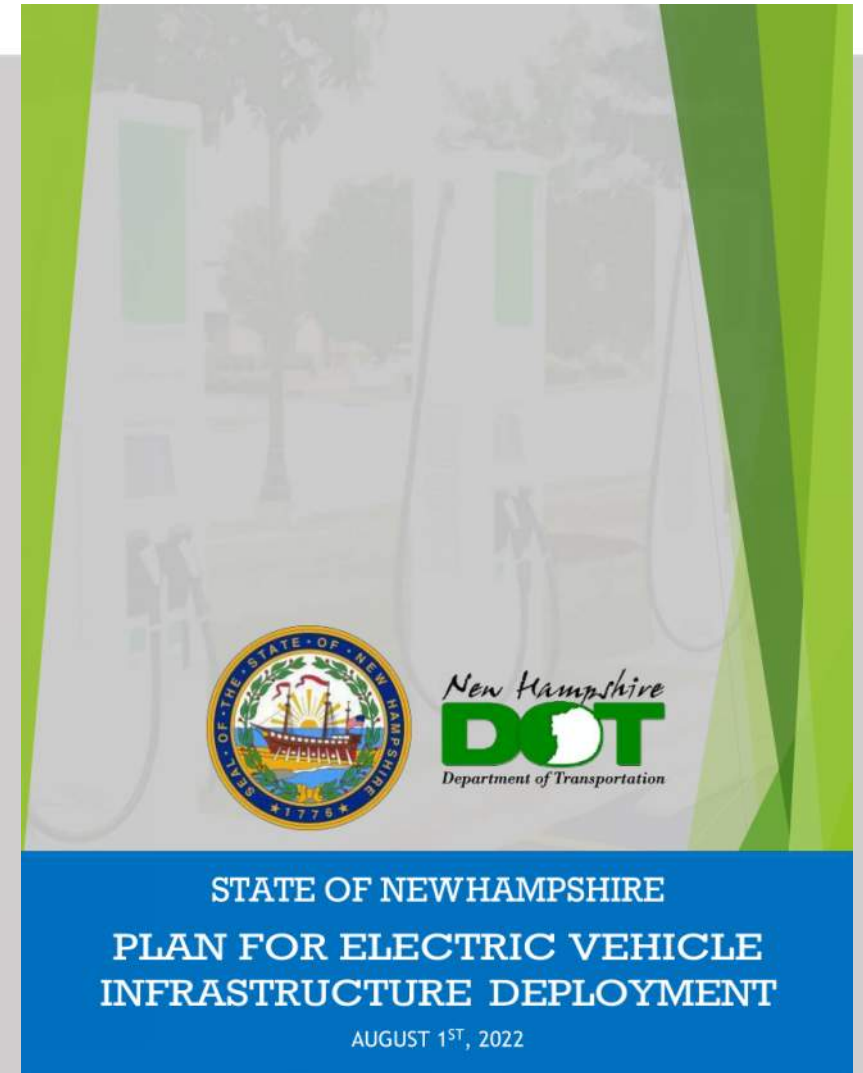
# Other Considerations

- Issues beyond the NEVI Program
  - Electric Vehicle adoption incentives
  - Utility Make-Ready incentives
  - Electric grid improvements
  - Support laws for inappropriate parking at chargers

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# NEVI Plan

- Submitted on August 1, 2022
- **Approved on September 14, 2022**
- Waiting on final rules to be released
- Hiring a Consultant to assist with program
- Anticipate first RFP to be released in mid 2023
- Reviewed annually
- <https://www.nh.gov/dot/media/documents/nh-nevi-charging-deployment-plan-2022-08-01.pdf>





# NEVI Plan – NHDOT Rules Comments

## **NHDOT Comments on Notice of Proposed Rule Making (August 2022)**

- Proposed reduction from minimum of 4 to 2 DCFC per site
- Reanalyze if/when Tesla opens their network to all EVs
- Support credit cards and 800 numbers for payment at chargers
- Electrician's Board opposes requiring specific training for Electricians
- Request FHWA provide templates for quarterly/yearly submittals
- Support Buy America waiver for charging equipment

# NEVI Plan – Buy America Comments

## Buy America (September 2022)

- “FHWA seeks to establish a schedule that will ensure a sufficient and reliable supply of EV chargers is available for Title 23 U.S.C. and BIL-funded programs, including NEVI...”
- Proposes a 15-month transition to compliance requirements
- NHDOT supports AASHTO comments
  - Extend start of Buy America transition period by two years
  - Conduct and utilize robust market research to better determine supply and demand
  - Narrow the definition of an EV charger to include only the self-contained EV charging unit
  - Utilize the date of manufacture as the effective date for the proposed waiver
  - Streamline, simplify, and speed up the process for waiver applications and determinations
- Provide training and information dissemination throughout the broader industry

# NEVI Plan - Content

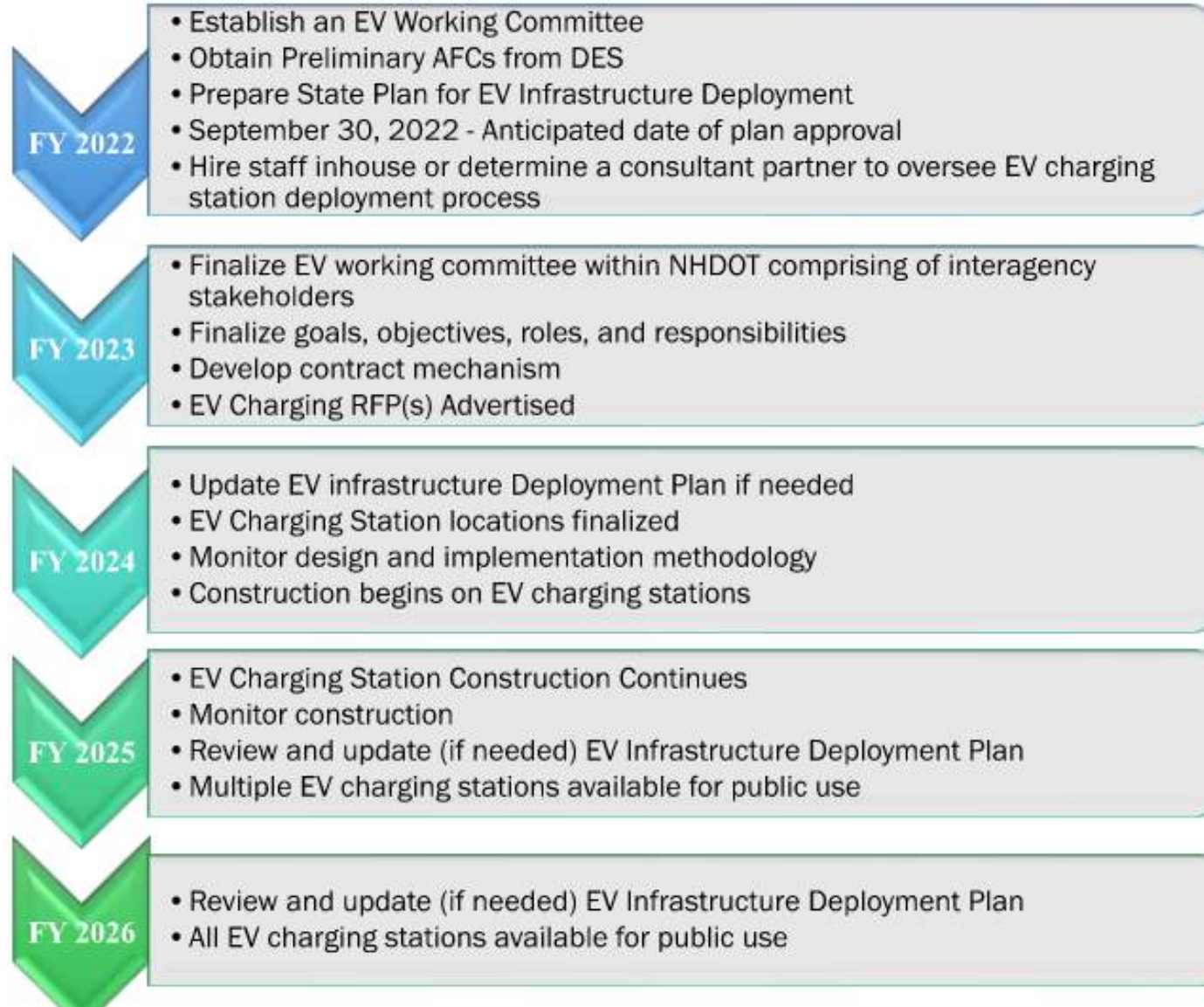
New Hampshire DOT

State Plan for Electric Vehicle Infrastructure Deployment

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# NEVI Plan - Timeline



# NEVI Plan – Plan Vision

**Strategically deploy an interconnected and equitable network of public electric vehicle charging infrastructure to encourage electric vehicle travel, maintain economic competitiveness, and stimulate public-private sector collaboration in the State of New Hampshire.**

# NEVI Plan – Contracting

- Contract with Private Entities
- Use model from DES/VW Trust Settlement
  - Previously Vetted
  - Good Response
- Contracts include design, construction and maintenance
- 5-year term after construction



# NEVI Plan – Existing and Future Conditions Analysis

- DES to nominate US 3 north of US 2 as AFC
- Tesla chargers not included

Automaker	Q1 2021	Q2 2021	Q3 2021	Q4 2021	Q1 2022	Q2 2022	Q3 2022
Tesla	69,300	76,230	75,509	115,248	129,743	130,047	114,000 (est.)
Ford	6,614	6,361	5,880	8,285	6,734	15,273	18,257
General Motors	9,025	11,263	4,515	26	457	7,217	15,156
Nissan	2,925	4,804	2,345	4,165	4,371	3,251	1,276
Volkswagen Group	6,805	11,675	8,357	9,081	7,932	8,961	11,893
Hyundai-Kia	2,829	4,401	5,921	5,246	15,480	17,979	9,796
Mercedes-Benz	0	0	0	443	2,091	1,959	2,717
BMW	340	511	426	199	1,171	1,082	4,337
Stellantis	0	0	0	0	0	0	0
Volvo/Polestar	435	2,153	2,430	2,986	3,092	4,518	3,510
Rivian	0	0	0	920	1,227	4,467	6,584
Lucid	0	0	0	125	460	482	N/A
TOTAL US EV sales	98,832	118,233	106,562	147,799	173,561	196,788	187,526

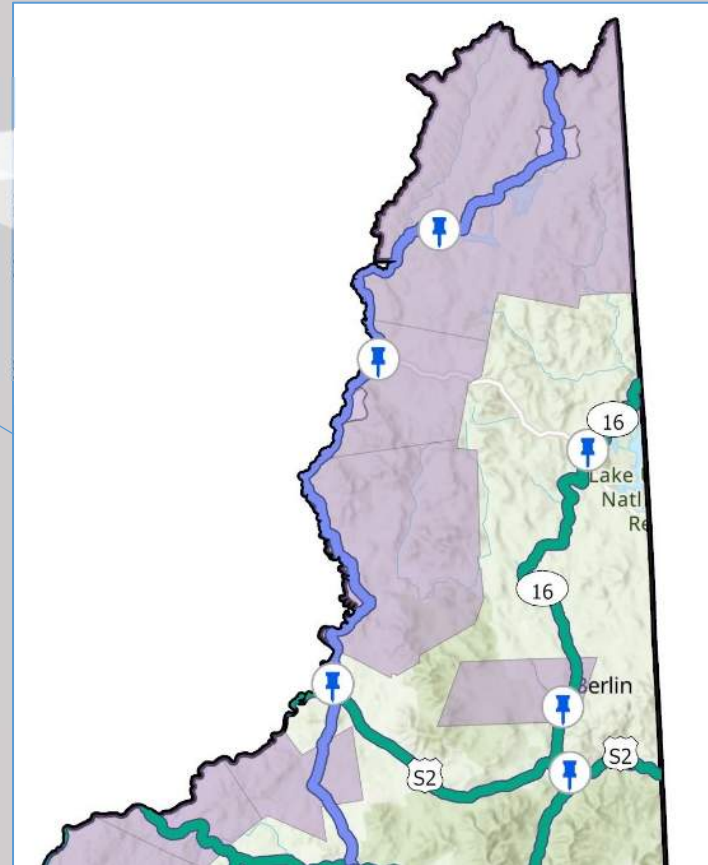
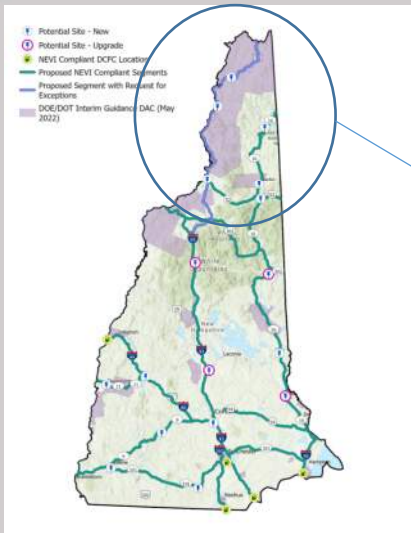
[Electric Vehicle Sales and Market Share \(US - Updated Monthly\) - YAA \(joinyaa.com\)](#)

# NEVI Plan – Risks and Challenges

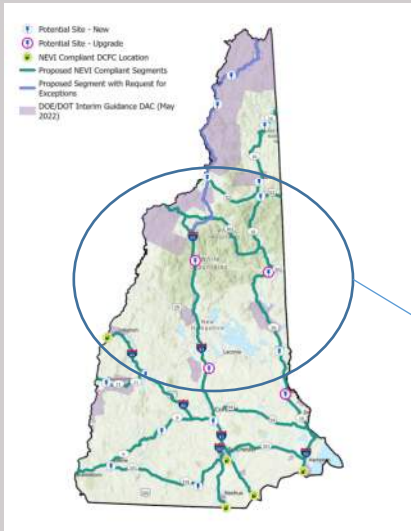
- Permitting
- Stakeholder Agreements
- Utility Coordination
- Tesla Infrastructure
- Rural and Disadvantaged Communities
- Equipment and Labor Shortages
- Level 2 Charging



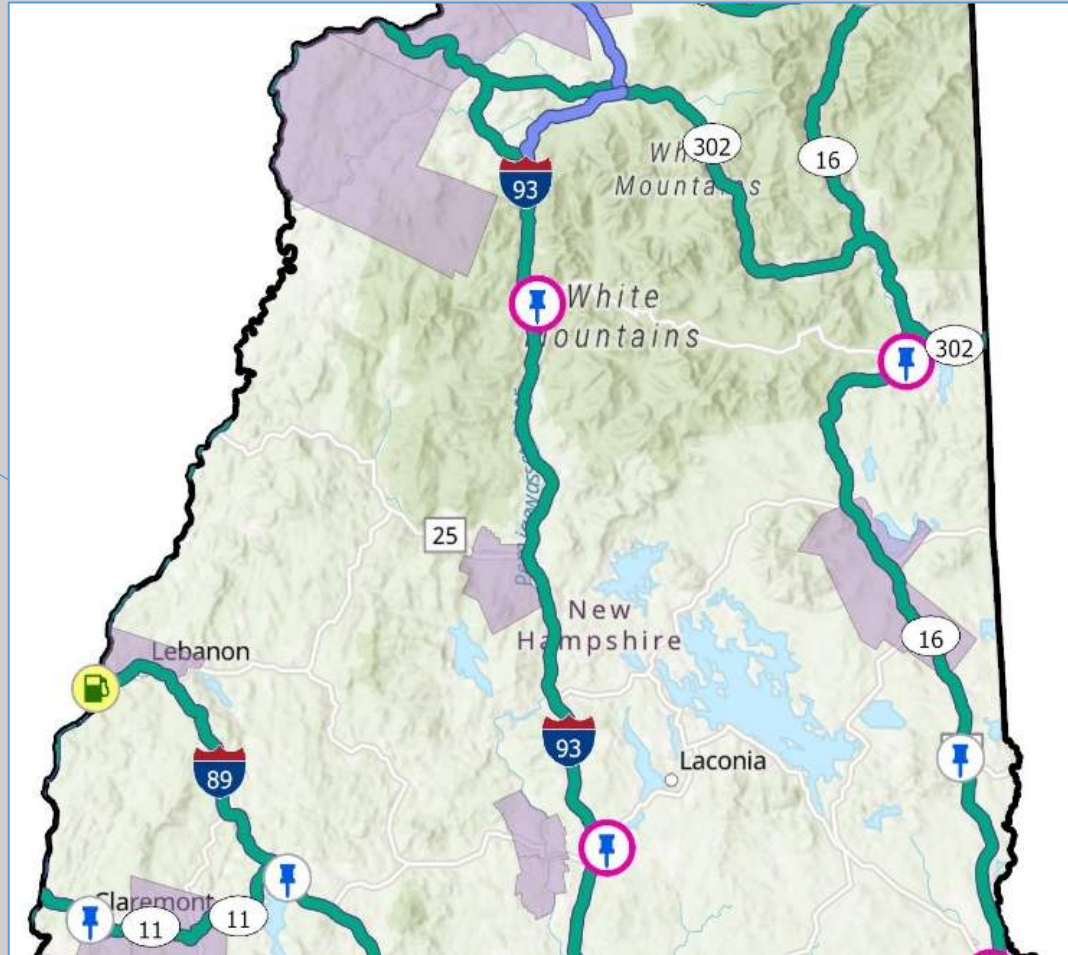
# NEVI Plan – Potential Charger Locations



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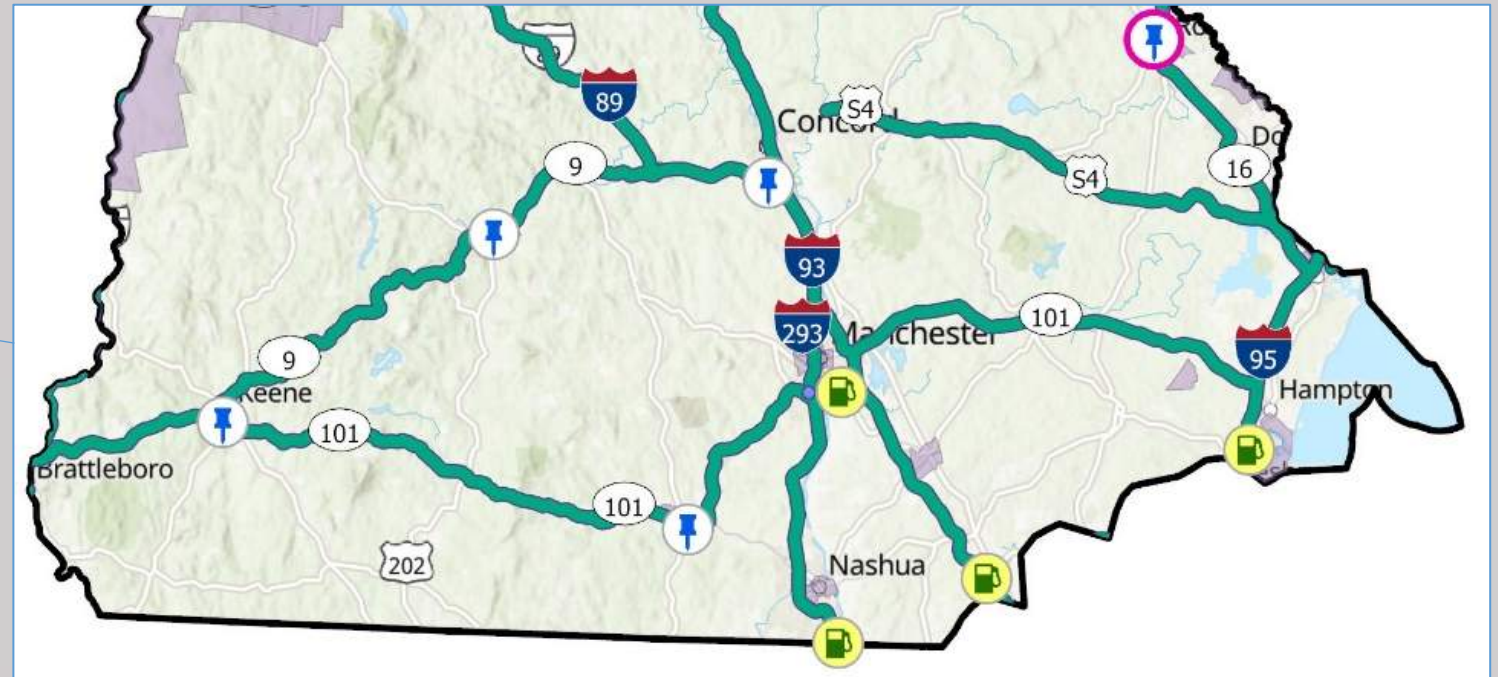
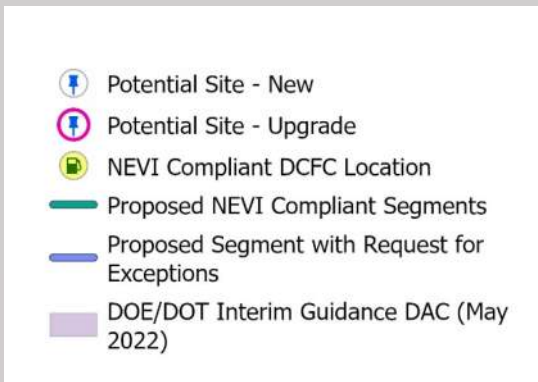
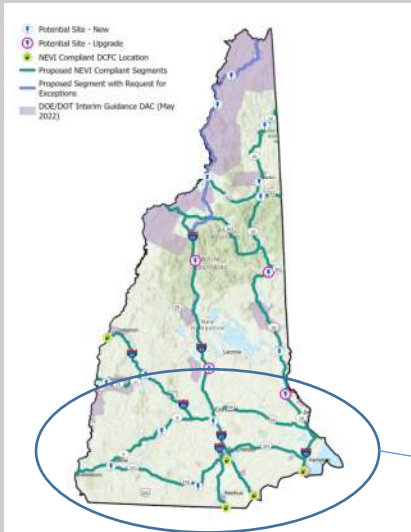


- Potential Site - New
- Potential Site - Upgrade
- NEVI Compliant DCFC Location
- Proposed NEVI Compliant Segments
- Proposed Segment with Request for Exceptions
- DOE/DOT Interim Guidance DAC (May 2022)





# NEVI Plan – Potential Charger Locations



# NEVI Plan – Implementation

- Open communication between networks
- Qualified installers
- Data collection per Federal Rule tbd
- 97% uptime
- Buy America



# NEVI Plan – Equity Considerations

- Equitable deployment statewide
- Identification/Outreach to DAC
- Measurable Benefits
- Justice 40

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