



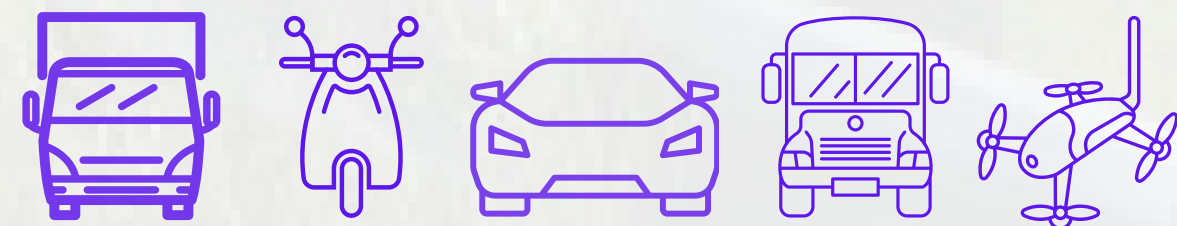
SOUTHERN NEW HAMPSHIRE
PLANNING COMMISSION

**Project
Update:**

TAC 04.20.23

SNHPC REGION

PLAN FOR ELECTRIC VEHICLE INFRASTRUCTURE DEVELOPMENT



OBJECTIVE:

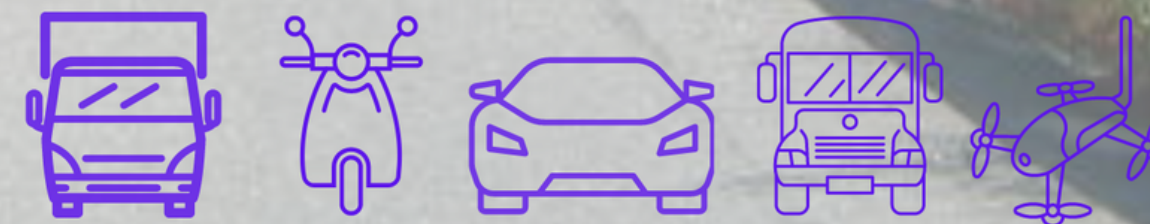
support the adoption and transformation to electric vehicles throughout the region, and between NH RPC regions.



SOUTHERN NEW HAMPSHIRE
PLANNING COMMISSION

2023

SNHPC REGION PLAN FOR ELECTRIC VEHICLE INFRASTRUCTURE DEVELOPMENT

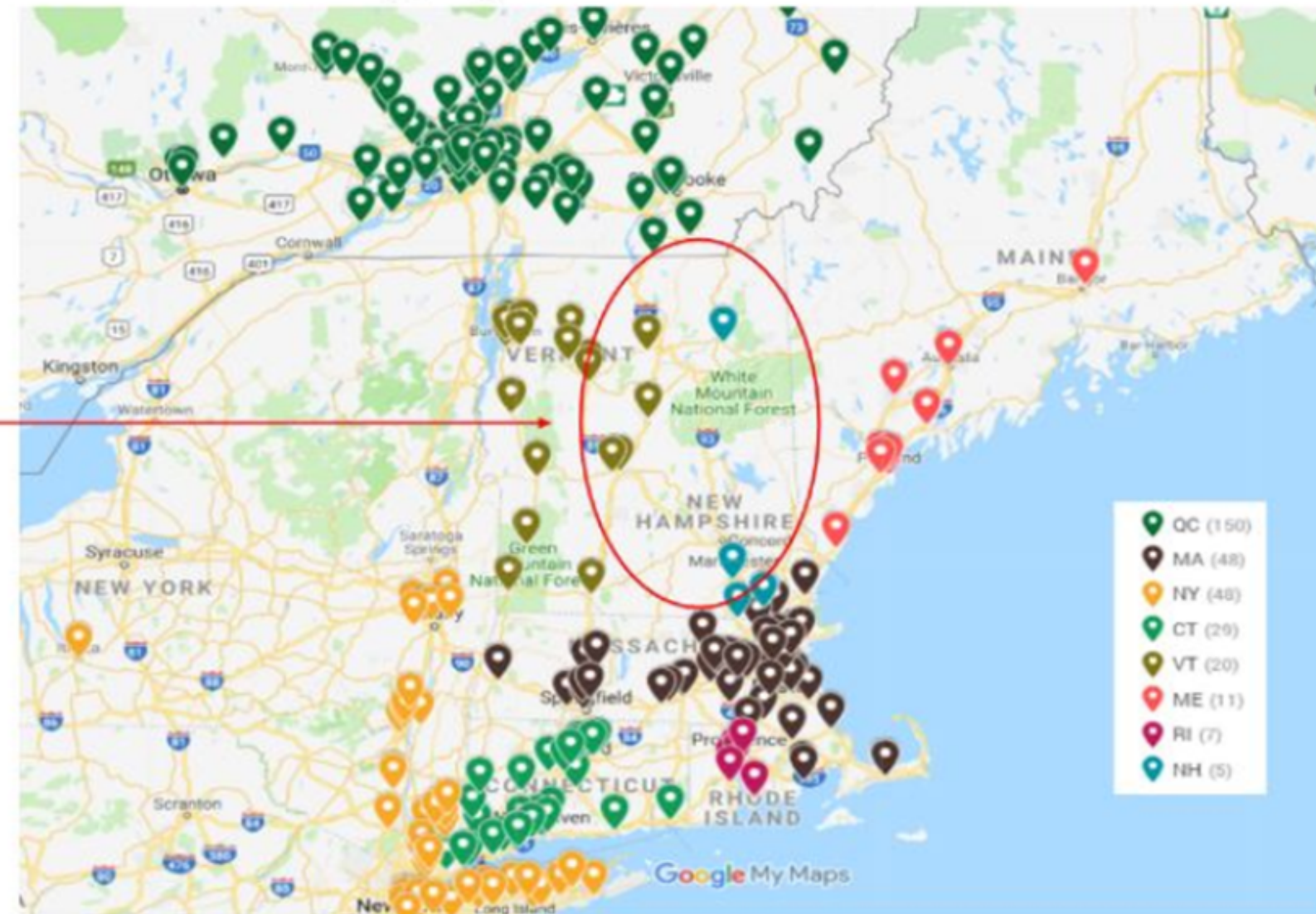


New Hampshire is a laggard in terms of public vehicle-charging stations compared to its neighbors.

DC fast charge sites are being installed in neighboring states at a higher volume than New Hampshire, in large part to enable EV tourism

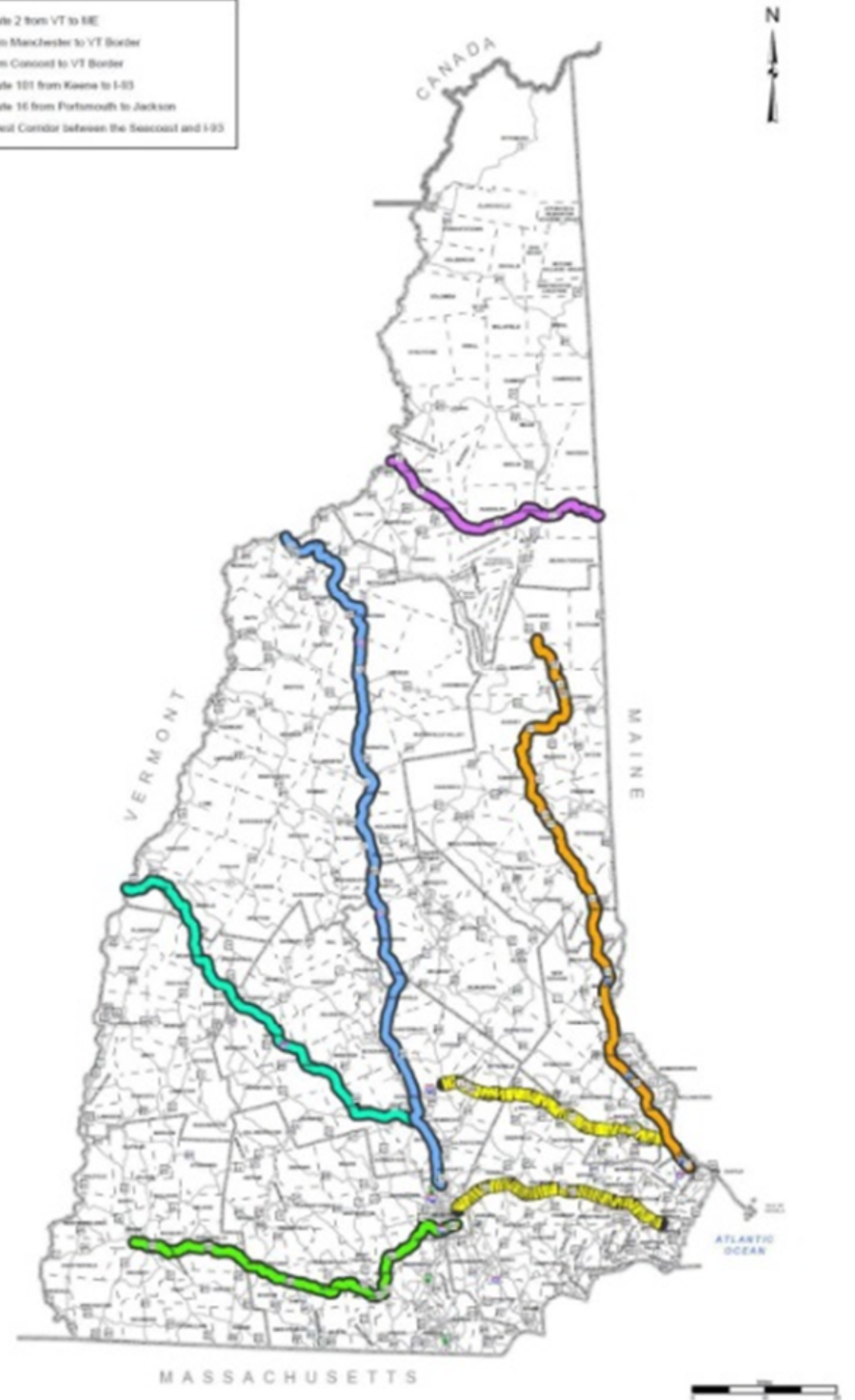
DC Fast Charging Corridor From Montreal to NY

NH is the missing link



One slide from a 2019 presentation by Eversource presentation about "electric vehicle charging infrastructure"

- US Route 2 from VT to ME
- I-93 from Manchester to VT Border
- I-89 from Concord to VT Border
- NH Route 101 from Keene to I-93
- NH Route 16 from Portsmouth to Jackson
- East West Corridor between the Seacoast and I-93



NH ALTERNATIVE FUEL CORRIDORS

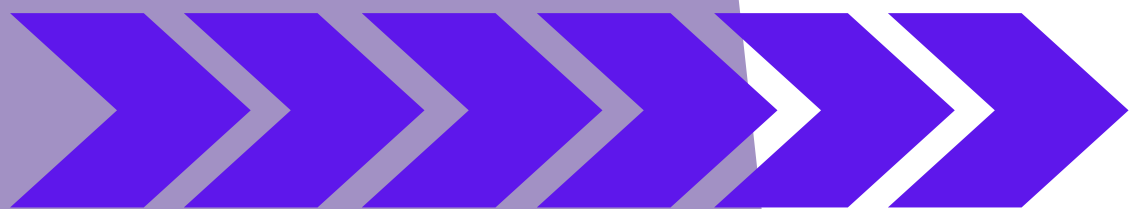
FHWA + NHDOT focusing NEVI funds on AFCs

- Goal= DCFC station at least every 50 miles.

In our region:

- I-93 from Hooksett to Manchester (within a mile of interchanges)
- NH Route 101 from Bedford to Manchester
- NH Route 101 from Candia to Manchester (within a mile of interchanges)

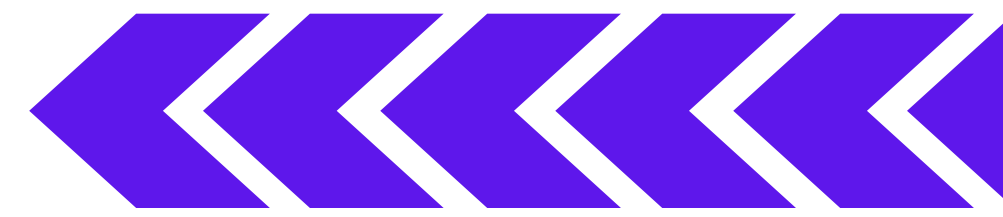




EV WORKING GROUP

- Bedford
- Chester
- Derry
- Goffstown
- Hooksett
- Manchester
- Windham
- NHDES



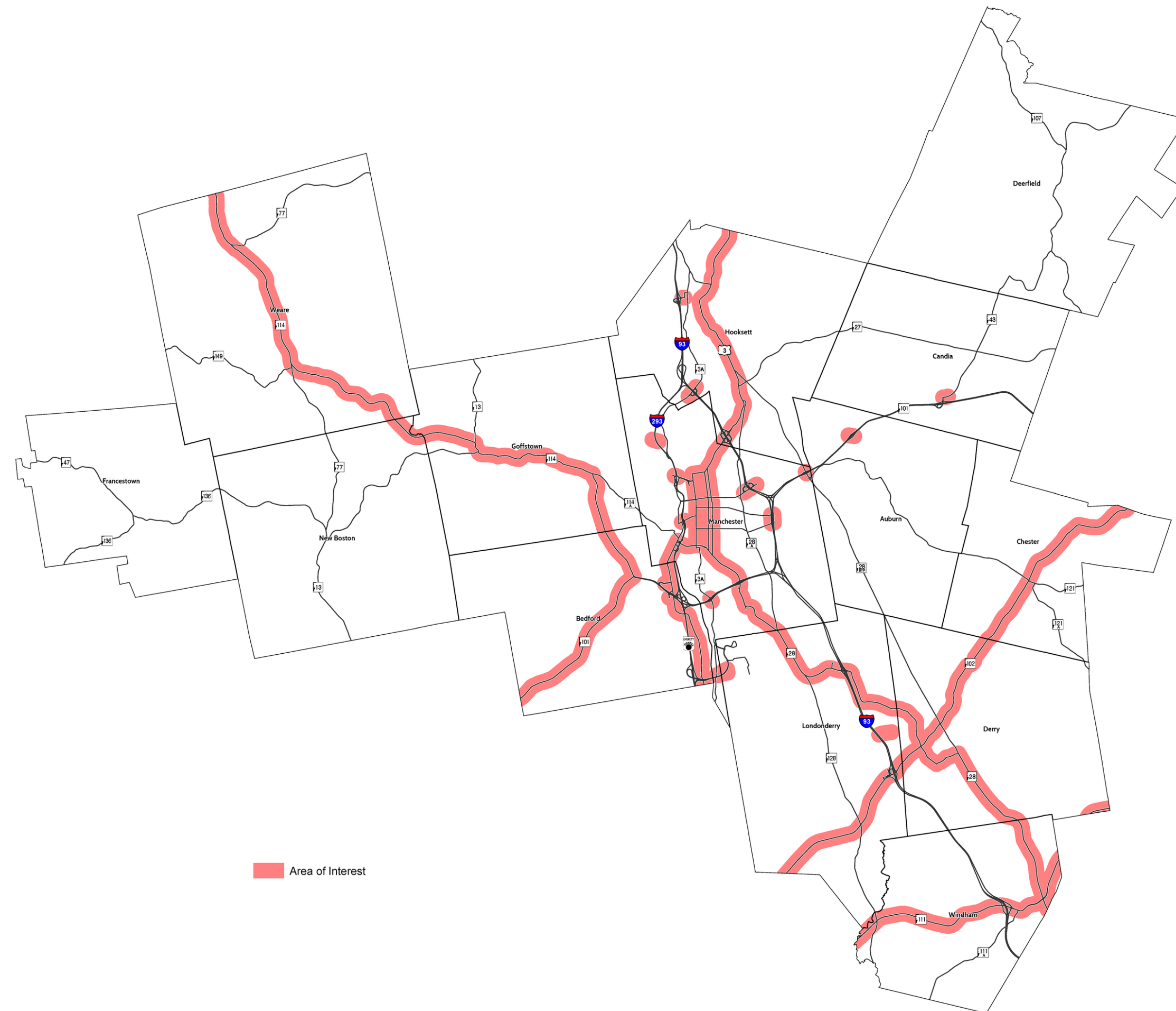


SNHPC FAST CHARGING CORRIDORS

Routes of Interest

- I-93
- I-293
- FEET
- US-3
- NH-101
- NH-102
- NH-111
- NH-114
- NH-28



The area of interest was determined to be within 1/4 of mile of non-limited access expressways and within 1/4 of limited access expressways exits



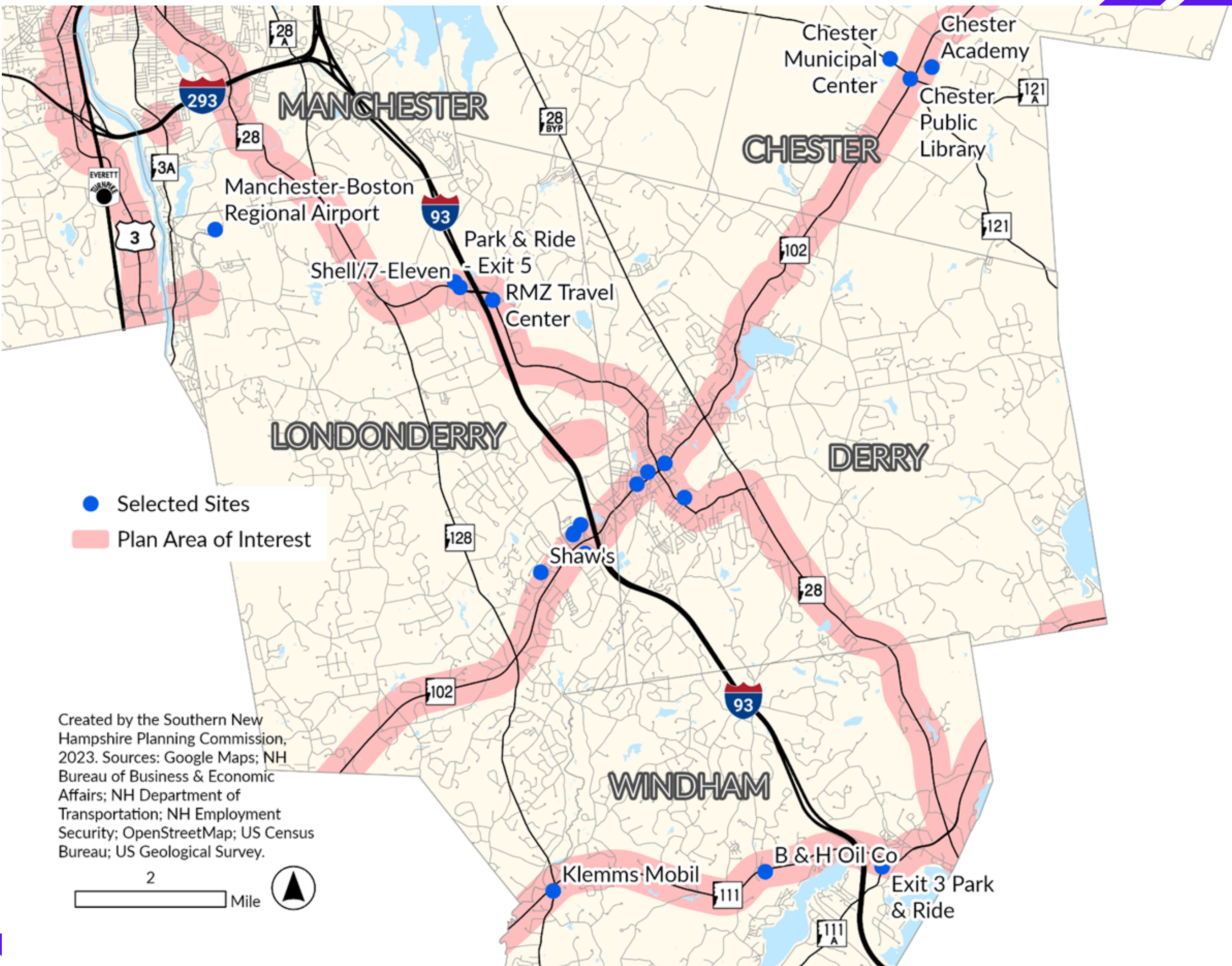
EV CHARGING SITE SELECTION

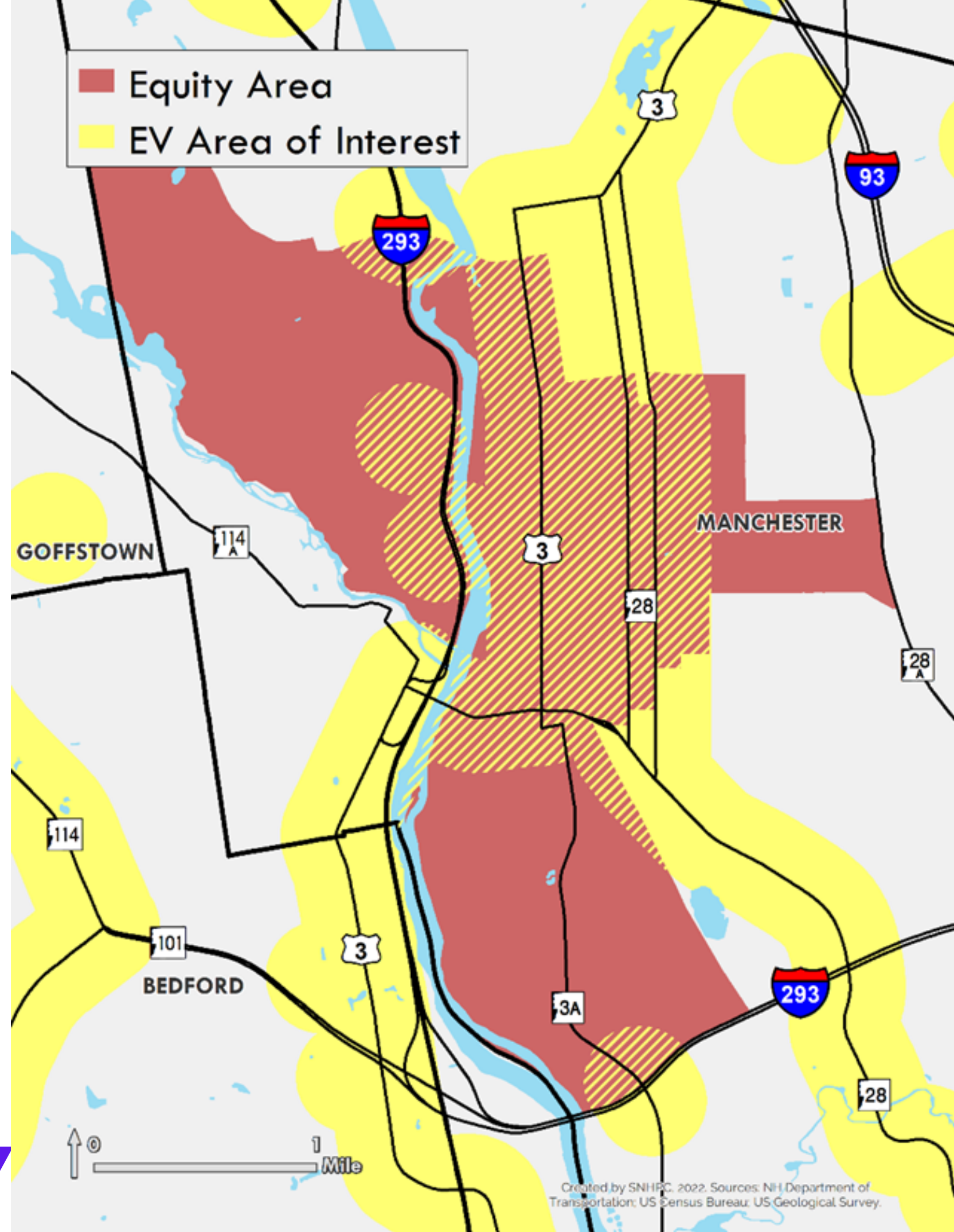
- 13,501 businesses in the region→6,115 w/in 1/4 of mile
- gas stations, grocery stores, & state liquor stores were selected as suitable businesses; all hospitals, colleges, parking structures, and park-&-rides were included
- additional public sites were considered, especially if no other qualifying sites
- over 100 sites were identified, reviewed against viability criteria, & reviewed w/ local municipal staff
- 60 potential DCFC and/or Level 2 charging stations sites selected



			
	Fast Charging Public Charging at Retail & Business	Level 2 Best for work & multifamily	Level 1 Best for homes
Time to Full Charge*	20-30 minutes	5-6 hours	20 hours
Charging Speed	90-120 miles per ½ hour	20 miles per hour	4 miles per hour





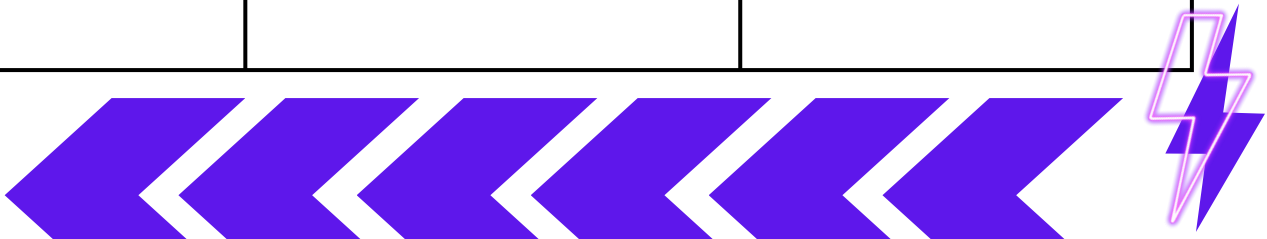




Derry

POTENTIAL SITES BY COMMUNITY

Location	US/NH Route	Address	Phase 3 Power	Fast Charger Candidate	Level 2 Candidate
Municipal Center	NH Route 102	14 Manning St.	Yes	Yes	*Existed
Derry Public Library	NH Route 102	64 East Broadway	Yes	No	Yes
Marion Gerrish Community Center	NH Route 102	39 West Broadway	Yes	Unknown	Yes
Parkland Medical Center	NH Route 28	1 Parkland Dr.	Yes	Yes	Yes



Traffic	4,300	
Phase 3 Power		Yes
Fast Charger candidate	Yes	
Level 2 candidate	Yes	
Restrooms	Yes	
Parking	100+	
Services	Downtown Shops	Groceries, Restaurant

In Derry's downtown, this is a large municipal parking lot at in the downtown. Derry had installed Level 2 chargers in this location and is looking to install DCFCs with a 3rd party provider. Located just north of NH Route 102 about 1,000 feet northwest from the junction with NH 28 . There are restaurants, shopping, and services within walking distance.

Derry

Municipal Center

Corridor: NH Route 102
Address: 14 Manning Street
Derry, NH

Traffic	4,300	
Phase 3 Power		Yes
Fast Charger candidate	Yes	
Level 2 candidate	Yes	
Restrooms	Yes	
Parking	100+	
Services	Downtown Shops	Groceries, Restaurant

In Derry's downtown, this is a large municipal parking lot at in the downtown. Derry had installed Level 2 chargers in this location and is looking to install DCFCs with a 3rd party provider. Located just north of NH Route 102 about 1,000 feet northwest from the junction with NH 28 . There are restaurants, shopping, and services within walking distance.





SITE PRIORITIZATION

01. proximity to a major route

02. accessibility to the public

03. relevant activity at the site





CHARGING & FUELING INFRASTRUCTURE (CFI) DISCRETIONARY GRANT PROGRAM

- Federal grant program
- Up to \$700 million FY 2022-23
- Community Charging & Fueling Grants
- Alternative Fuel Corridor Grants
- MPOs + local governments are eligible

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VOLKSWAGEN MITIGATION TRUST

- Alleviate excess nitrogen oxide emissions caused by VW violations
- NH Trust share= \$31 million
- Four Irving stations in Hooksett + one gas station in Manchester



NATIONAL ELECTRIC VEHICLE INFRASTRUCTURE (NEVI)

- \$17 million FY 2022-2026
- overseen by NHDOT
- develop stations along NH's AFC

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RESOURCES

- See New Hampshire Electric Co-op (NHEC) Drive Electric website!

Example Incentives:

- Commercial EV Charging Station Incentives
- EV Rebates
- EV Time-Of-Use (TOU) Rate

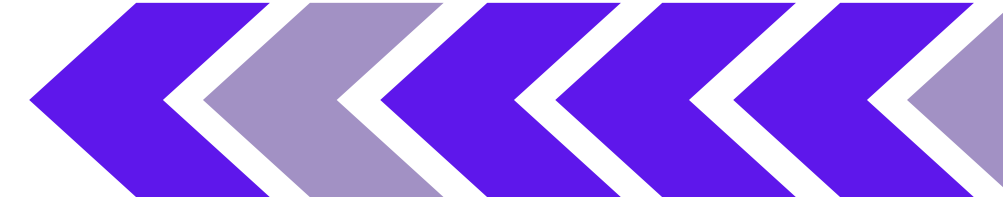


NEXT STEPS

- Present draft plan to working group
- Present final to TAC + MPO for adoption



QUESTIONS?



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