

EV Charging Initiative

Status report and considerations for the next EMT Triennial Plan

(for discussion)

Relevant Goals

- EMT Act – Triennial Plan Goals

- “Achieving the maximum achievable cost-effective electricity ... program savings...”
- “Promoting the purchase of battery electric vehicles and plug-in hybrid electric vehicles to achieve by 2030 the goal of at least 220,000 such vehicles registered in the State.”*

* This aligns with the Maine Climate Council’s 2020 climate action plan goal to “Accelerate Maine’s Transition to Electric Vehicles.”

- EMT Triennial Plan V forecasted charging infrastructure needs through FY2025

Low Scenario - Gradual Growth of EVs :

Charger Type	Low	High	Existing	Net Need
DC Fast Charger Plugs	193	279	128	65 - 151
L2 Charger Plugs	1,820	2,360	415	1,405 - 1,945

High Scenario - Annual Doubling Growth of EVs:

Charger Type	Low	High	Existing	Net Need
DC Fast Charger Plugs	315	455	128	187 - 327
L2 Charger Plugs	3,030	3,930	415	2,615 - 3,515



Maine's Plan for EV Infrastructure Deployment

Maine's Plan for EV Infrastructure Deployment



MaineDOT

MAINE'S UPDATED PLAN FOR ELECTRIC VEHICLE (EV) INFRASTRUCTURE DEPLOYMENT (MAINE'S NEVI PLAN)

*Submitted to Federal Highway
Administration August 2023*

- Published in July 2022
- Updated annually
- Strategies for level 2 and level 3 charging
- Includes several federal funding sources
 - National Electric Vehicle Infrastructure (NEVI)
 - Charging and Fueling Infrastructure (CFI)
 - Maine Jobs and Recovery Plan (MJRP)

Alternative Fuel Corridors

- 9 corridors eligible for federal funding (high-speed, level 3 charging)
- Reduce distance between chargers to 50 miles or less

Corridor Name	EV Corridor-Pending Segment	EV Corridor-Ready Segment
27	Boothbay-Gardiner, Farmington-Canadian Border	Gardiner-Farmington
1	Brunswick-Ellsworth	Kittery-Brunswick
1A/3	Bangor-Bar Harbor	N/A
2	Newport-Skowhegan, Farmington-NH Border	Skowhegan-Farmington
201	Fairfield-Canada Border	N/A
302	Portland-NH Border	N/A
I-95	Augusta-Bangor*	Kittery-Augusta
I-295	N/A	South Portland-W. Gardiner
I-95	Bangor-Houlton	N/A



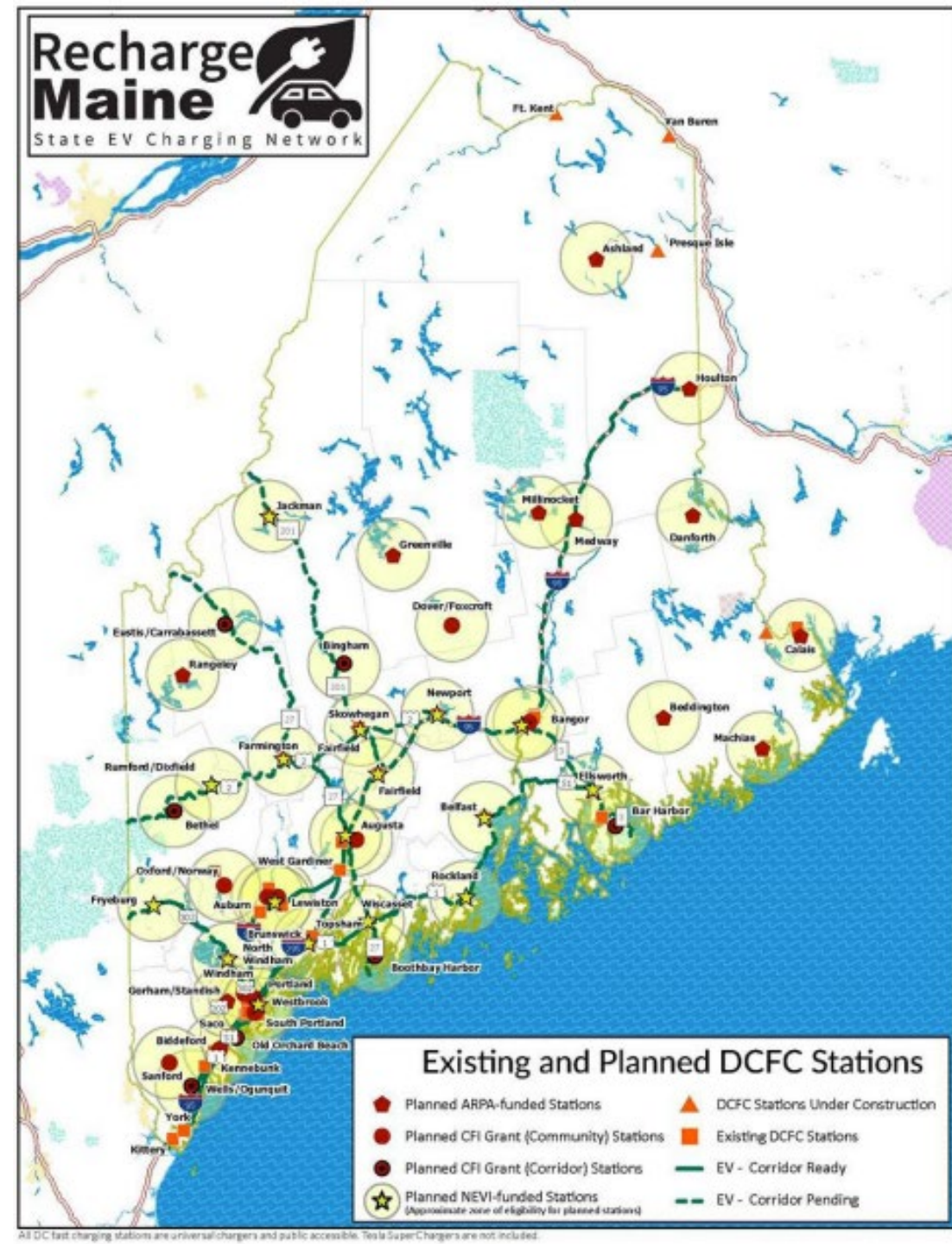
Existing and Planned Chargers

Existing

- 31 level 3 charging stations less than one mile from a corridor

Planned

- Over 50 level 3 charging stations (over 150 level 3 ports)
- Over 100 level 2 charging stations (over 500 level 2 ports)
- Located along corridors, at destinations, and within communities



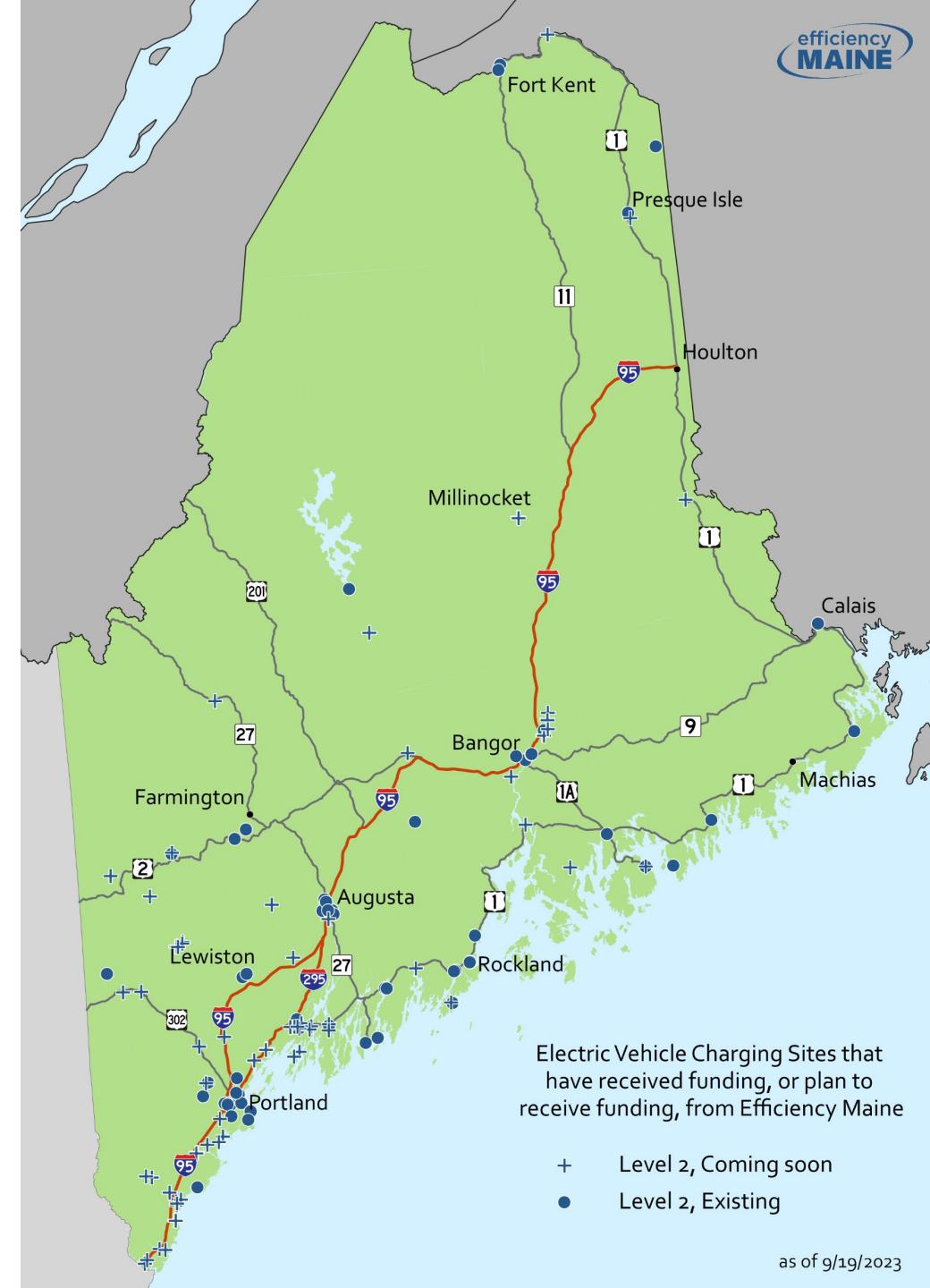


Progress to Date – Level 2 Chargers



Existing and Awarded Level 2 Chargers

- 136 sites
 - 61 existing
 - 75 coming soon



Recent Installations of Level 2 Chargers (2023)

FON #1 – Applications due 1/17/2023

- Approved
 - 51 projects with 127 level 2 ports
 - \$693,000 in MJRP incentives
 - \$128,000 in The Nature Conservancy incentives
- Completed projects to date
 - 38 projects (91 level 2 ports)

FON #2 -- Applications due - 6/30/2023

- Approved
 - 40 projects with 236 level 2 ports
 - \$609,000 in MJRP incentives
- Completed projects to date
 - 4 projects with 14 level 2 ports



*Cobscook Institute
level 2 chargers in Lubec*

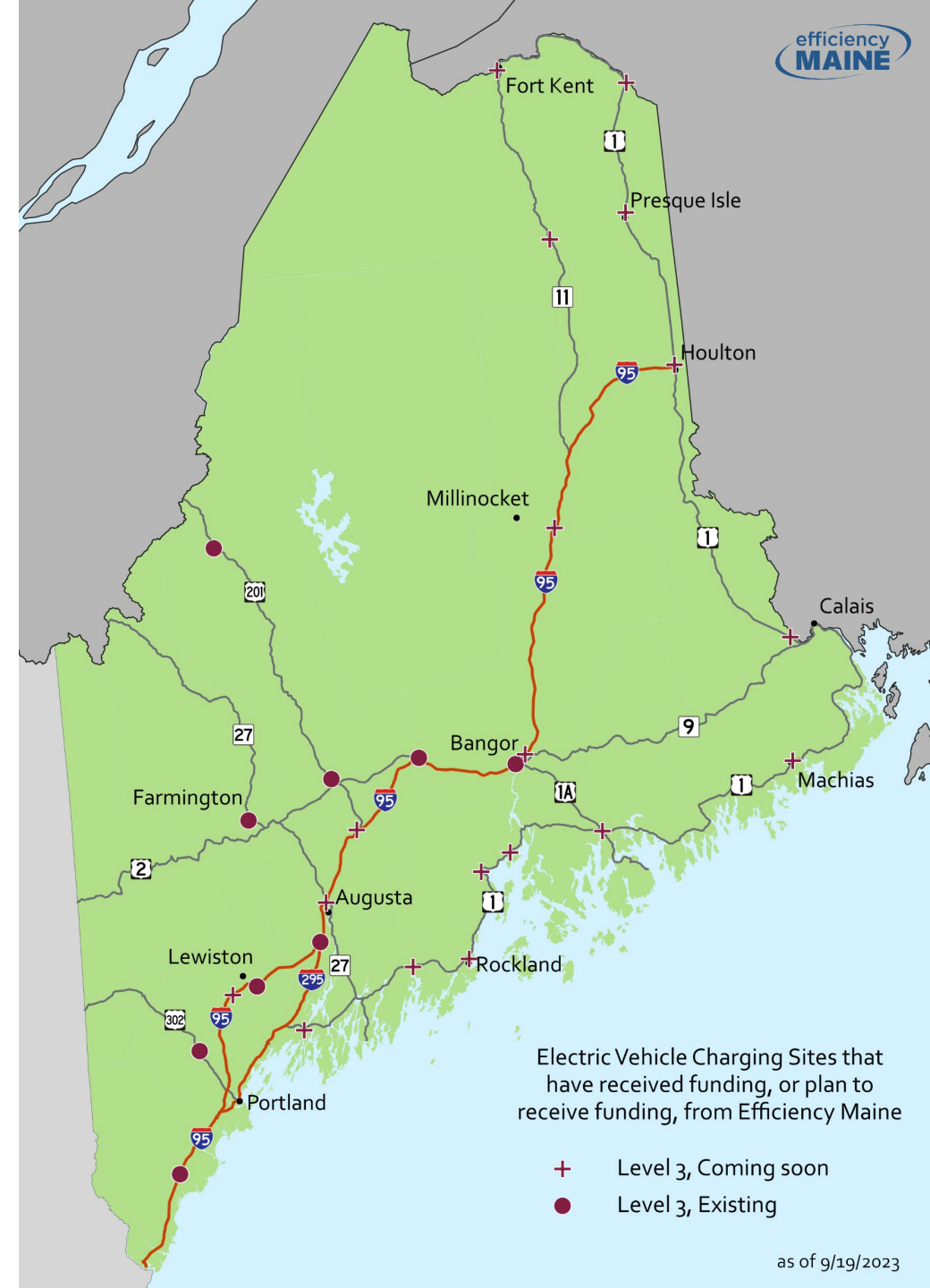


Progress to Date – Level 3 Chargers



Existing and Awarded Level 3 Chargers

- 29 sites
 - 10 existing
 - 19 coming soon



Phase 3 (central and eastern Maine)



Irving fast chargers in Auburn

- Bids due - 2/5/2021
- Awarded 7 projects
 - 14 level 3 ports
 - \$1.7 million in VW and NECEC incentives
- Completed projects - 7 projects
 - Irving, Newport
 - Irving, Bangor
 - Petronino, Lewiston
 - Irving, Fairfield
 - Irving, Auburn
 - ReVision, Belfast
 - ReVision, Ellsworth

Phase 4 (northern and eastern Maine)

- Bids due - 11/2/2022 and 6/22/2023
- Awarded 9 projects
 - 23 level 3 ports and 4 level 2 ports
 - \$3.9 million in MJRP and NECEC incentives
- Projects underway - 9 projects
 - Town of Van Buren, Van Buren
 - Irving, Baileyville
 - Irving, Fort Kent
 - Irving, Presque Isle
 - Irving, Medway
 - Universal EV, Houlton
 - True Upside Consulting, Ashland
 - True Upside Consulting, Danforth
 - Universal EV, Machias

Phase 5 (Augusta and U.S. Route 1)

- Bids due - 6/22/2023
- Awarded 6 projects
 - 26 level 3 ports
 - \$5 million in NEVI incentives
- Four projects underway and one project under construction
 - Tesla, Augusta
 - ReVision, Ellsworth
 - Sundog Solar, Searsport
 - Tesla, Rockland
 - Irving, Waldoboro
 - Midcoast Regional Redevelopment Authority, Brunswick



Plans for the Future

Phase 6 (southern and central Maine)

- Issued RFP - 10/16/2023
- Level 3 chargers (\$6 million in NEVI incentives)
 - I-295 and US Route 1A in Portland
 - I-95 from Clinton to Newport
 - I-95 in Hampden
 - I-95 in Bangor
 - US Route 2 from Rumford to Dixfield
 - US Route 302 in North Windham
 - US Route 302 from Fryeburg to Bridgton
- Bids due - 1/16/2024

DCFCs at Maine Destinations (western and northern Maine)

- Issued RFP - 12/11/2023
- Level 3 chargers (\$2.8 million in MJRP and \$500,000 in NECEC incentives)
 - Rangeley
 - Greenville/Moosehead
 - Millinocket
 - Gorham/Standish
 - Orono
- Bids due - 3/15/2024

Fiscal Year (FY) 2025 and FY2026

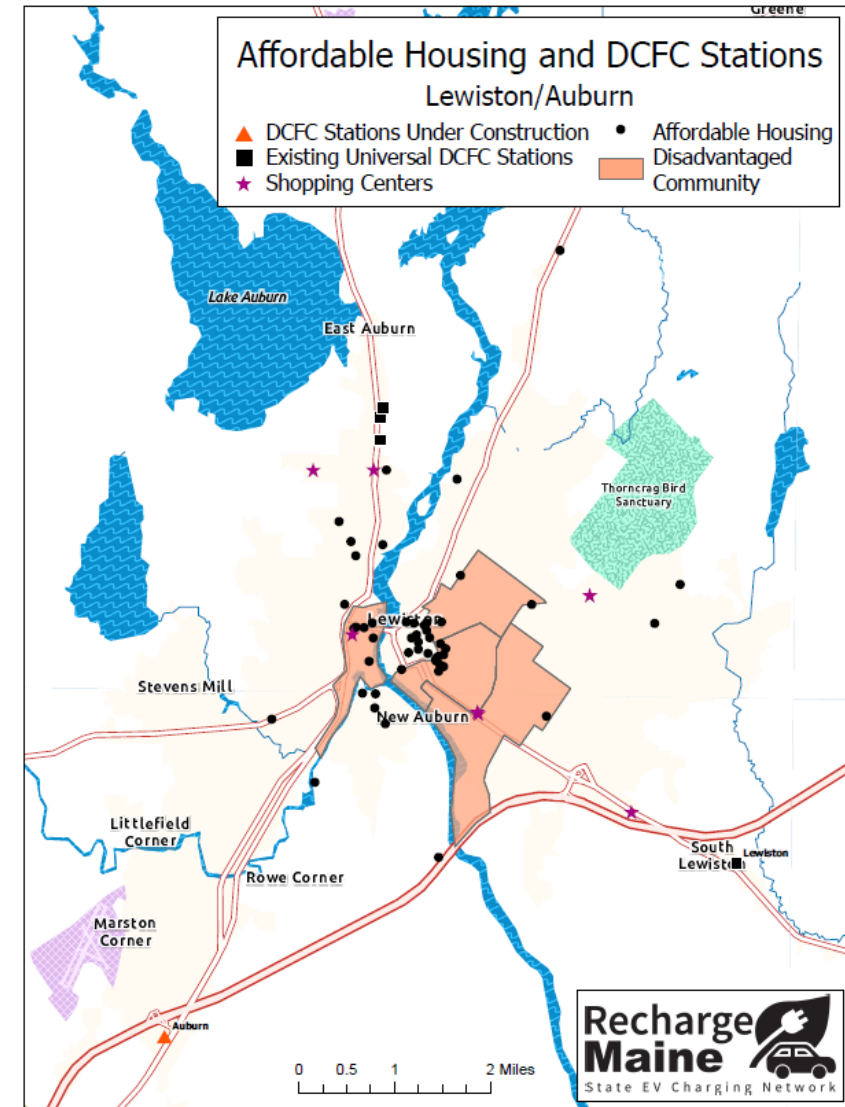
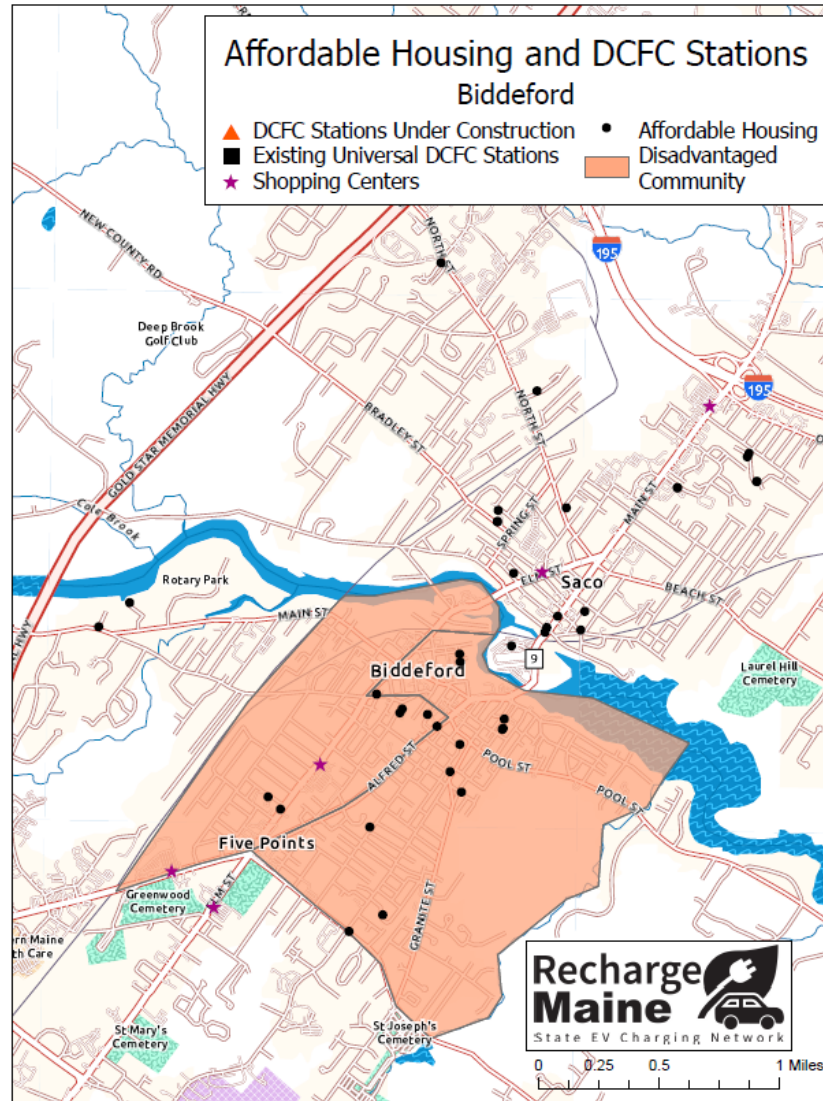
- Previously Approved Funding
 - \$19 million in NEVI
 - \$8 million in MJRP
 - \$1 million in NECEC
- Future Plans for Remaining Approved Funding (per the Plan for EV Infrastructure Deployment)
 - FY2025 – Farmington and Skowhegan (\$2.3 million in NEVI)
 - FY2025 – Level 2 chargers at multi-unit dwellings (\$700,000 in MJRP)
 - FY2026 – Fairfield, Lewiston/Auburn, Jackman (\$3.45 million in NEVI)

Charging and Fueling Infrastructure (CFI) Funds

- Two programs (Corridor and Community)
- June 2023 applied for \$15.1 million in CFI funds
 - \$5.9 million for Corridor (7 sites, 28 level 3 ports)
 - \$9.2 million for Community (126 sites, 520 level 2 ports, 34 level 3 ports)
- Categories may include:
 - Level 2 chargers at large workplaces
 - Level 2 chargers at multi-unit dwellings
 - Level 2 chargers in rural service centers
 - Level 3 chargers in communities and along key corridors

Affordable Housing and Level 2 Charging Stations

- Contingent on new funds from BIL CFI
- Target sites
 - Portland, S. Portland, & Westbrook
 - Lewiston and Auburn
 - Augusta
 - Bangor & Brewer
 - Biddeford





Thank you