

DCR CHARGING AND FUELING INFRASTRUCTURE GRANT APPLICATION: PUBLIC ACCESS ELECTRIC CHARGING PROGRAM

dc
Massachusetts

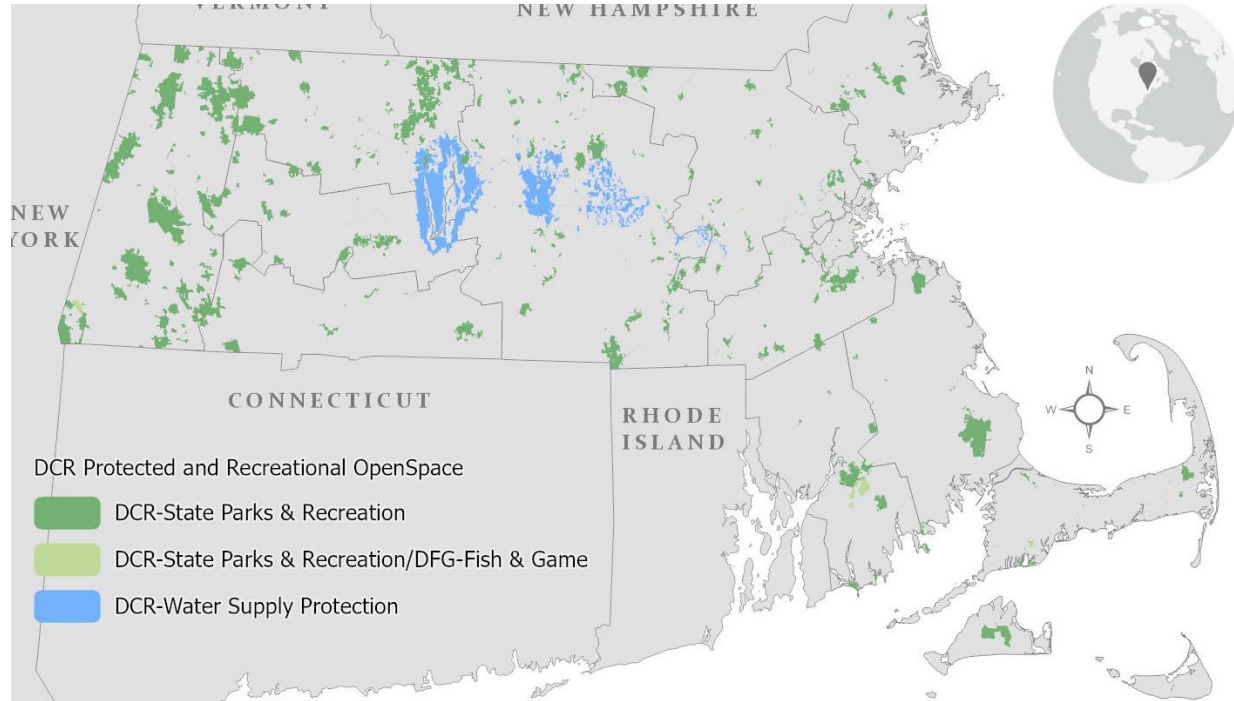


Presentation to EVICC
8/7/24

DCR EV CHARGING BACKGROUND

As the steward of more than 450,000 acres of land that includes 400 parks, cultural landmarks, watersheds, and recreation centers across the Commonwealth, DCR has an opportunity to support public vehicle electrification efforts

- DCR has deployed 20 charging stations across 15 sites, primarily for fleet use
- Public stations at:
 - Walden Pond (Concord)
 - Blackstone River Heritage Visitor Center (Worcester)
 - Great Falls Discovery Center (Montague)
 - *Coming soon:* Bajko Rink (Boston)
- DCR envisions providing destination- and community-focused infrastructure, allowing visitors to 'recharge their vehicle while they recharge themselves'



RECHARGE
WHILE YOU RECHARGE





DCR CFI GRANT COMPONENTS

1 DCR'S EV READINESS STRATEGIC PLAN

Strategic planning involves the development of a relevant, comprehensive strategic DCR Public Access Electric Vehicle Charging Program Plan that addresses the immediate needs as well as long-term planning objectives (12 mo.)



2 DESIGN & PERMITTING

Design phase activities are environmental review, historic and archaeological review, and preliminary engineering and design work. (9 mo.)



3 BUILD

DCR will contract with one qualified entity/vendor for the acquisition and installation of dual-head, networked Level-II electric vehicle charging stations. (6 mo.)



4 MAINTENANCE PLAN

Preventive maintenance and software & cellular service maintenance, or operation of eligible infrastructure for the first 5 years of operations after the installation of publicly available electric vehicle charging infrastructure will be included in the project (36-52mo)



5 INTERPRETATION & EDUCATION

DCR will use the opportunity to highlight installation of EV charging stations as a climate mitigation strategy to outline the importance of the our climate mitigation goals (24 mo)



Develop a strategic plan to identify priority sites for station deployment

Design and permitting for up to 40 stations at up to 25 sites

Deploy initial round of charging stations

Implement maintenance plan

Develop and deliver interpretation and education materials and programs

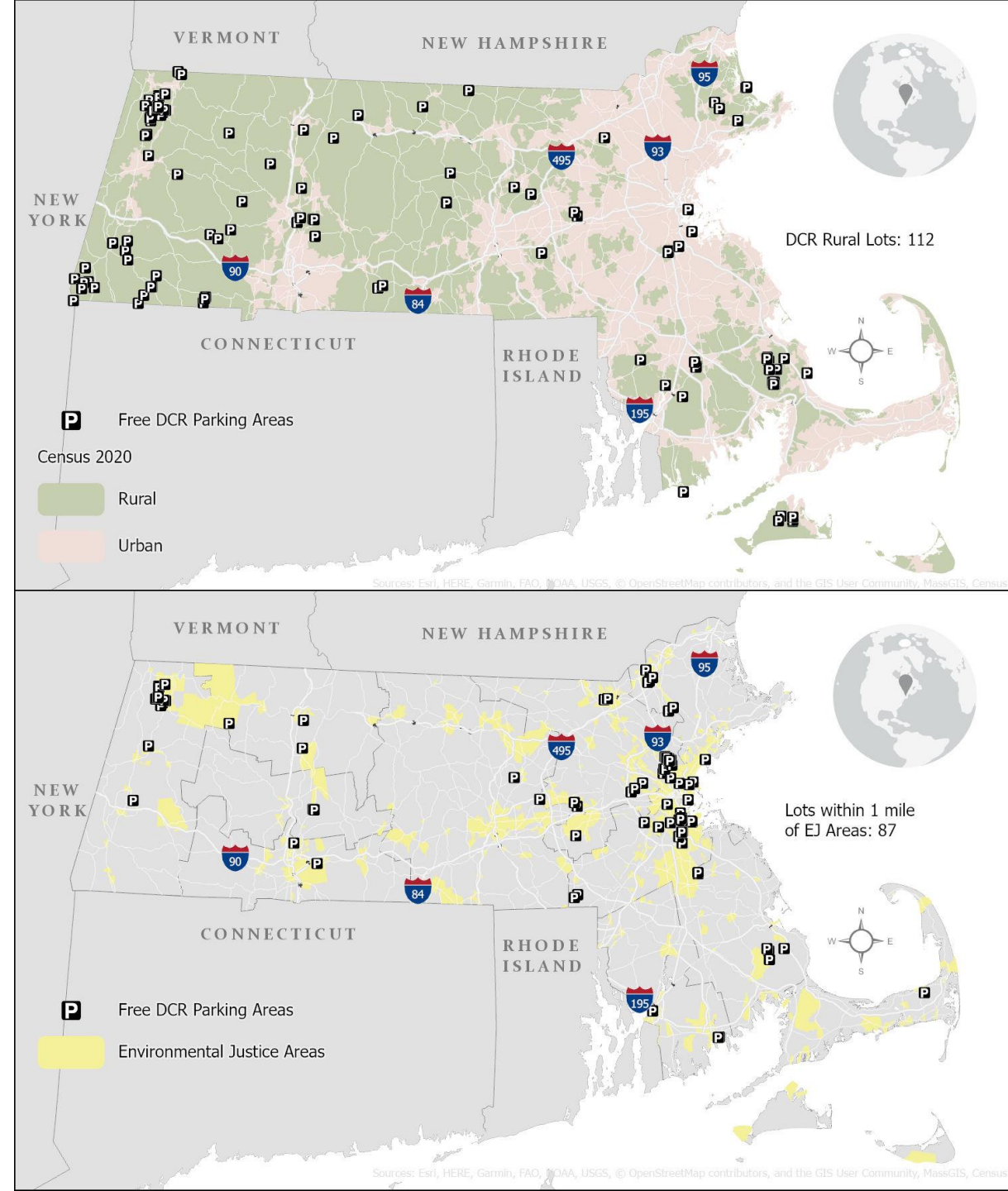
STRATEGIC PLAN DEVELOPMENT

DCR analysis identified 200 potential locations

- Located in rural areas or serve EJ populations
- Free parking

Locations will be further prioritized based on:

- Ability to support multi-modal travel
- Filling gaps in charging network
- Stakeholder input and partnership opportunities
- Equity considerations



EV STATION DEPLOYMENT

- At least 40% of initial sites will be located in, and/or serve, environmental justice neighborhoods
- CFI grant would cover all design and permitting
- Stations will meet following minimum requirements:
 - ☐ Level 2, dual port, free-standing
 - ☐ Network capable
 - ☐ Equipped with contactless/proximity card reader and RFID system
 - ☐ Protective bollards
 - ☐ Safety, informational or regulatory signage
- Interpretation, education, and outreach for first two years



GENERAL TIMELINE

Task	Estimated Duration
1: Pre-construction planning <ul style="list-style-type: none">Hire consultant, develop strategic plan	12 months
2: Design and permitting <ul style="list-style-type: none">Environmental and historic review	9 months
3: EVSE supplies <ul style="list-style-type: none">Select vendor through competitive bid	3 months
4: Construction & installation <ul style="list-style-type: none">Complete construction of initial ~40 stations	6 months
5: Maintenance <ul style="list-style-type: none">Preventative maintenance plan, fee collection	36 months, ongoing through year 5
6: Interpretation and education <ul style="list-style-type: none">Signage, onsite interpretation, press materials	24 months



QUESTIONS?