

# Electrifying Transportation

A Strategic Policy Guide for  
Improving Public Access to  
EV Charging Infrastructure  
in Rhode Island

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Overview



STATE OF RHODE ISLAND  
**OFFICE OF  
ENERGY RESOURCES**



# Our Directive

The Department of Transportation (DOT), along with the Division of Motor Vehicles (DMV) and the Office of Energy Resources (OER), shall develop, no later than January 1, 2022, a plan for a statewide electric vehicle charging station infrastructure in order to make such electric vehicle charging stations more accessible to the public (H5031/S0994)



# All Hands on Deck



## Director Alviti

Christos Xenophontos  
Pamela Cotter  
Bob Rocchio  
Lisbeth Pettengill  
Nicole Pope  
Cynthia Parker  
Vera Diluglio  
Ken White



## Administrator Craddock

Nicole Barnett  
Sean Finneran  
Roger Demers  
Brad Booth



STATE OF RHODE ISLAND  
**OFFICE OF  
ENERGY RESOURCES**

## Commissioner Ucci

Carrie Gill, Ph.D.  
Sara Canabarro  
Matt Moretta  
George Sfinarolakis,  
Ph.D.  
Chris Kearns  
Robert Beadle



## Acting Director Gray

Laurie Grandchamp  
Owen Jackson  
Liz Stone



Rachel Calabro

*Developing this Plan was truly a team effort. Leadership and staff from across the Administration coordinated closely and prioritized this urgent work in an all-hands-on-deck effort. This Plan is just the start. We are committed to continuing to work together in lock-step, following-up with actions and accountability in 2022.*

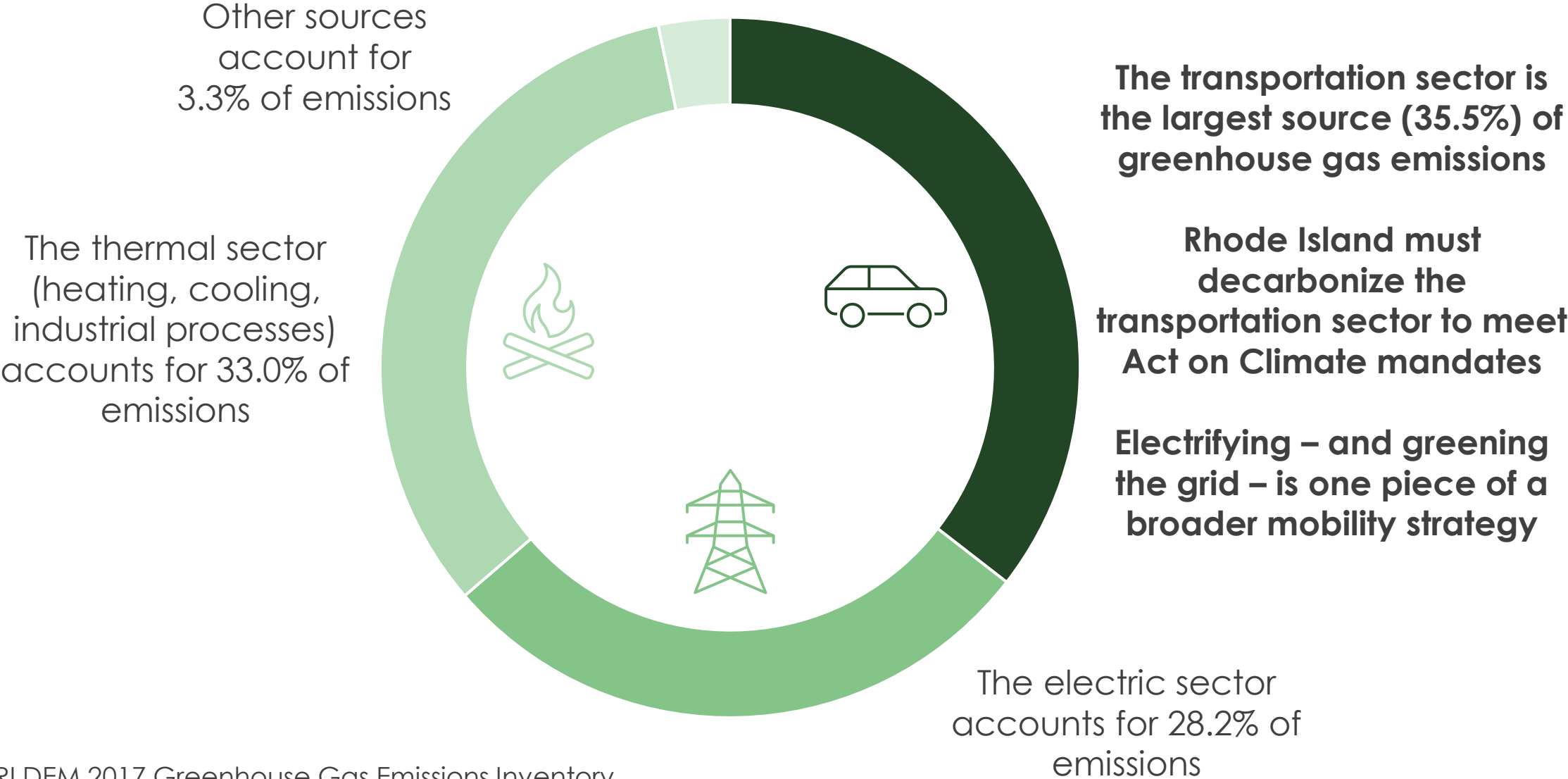
## Why this Work Matters

- Critical to meeting Act on Climate mandates
- Critical to improving public health and equity
- Critical to accessing and successfully deploying federal funding



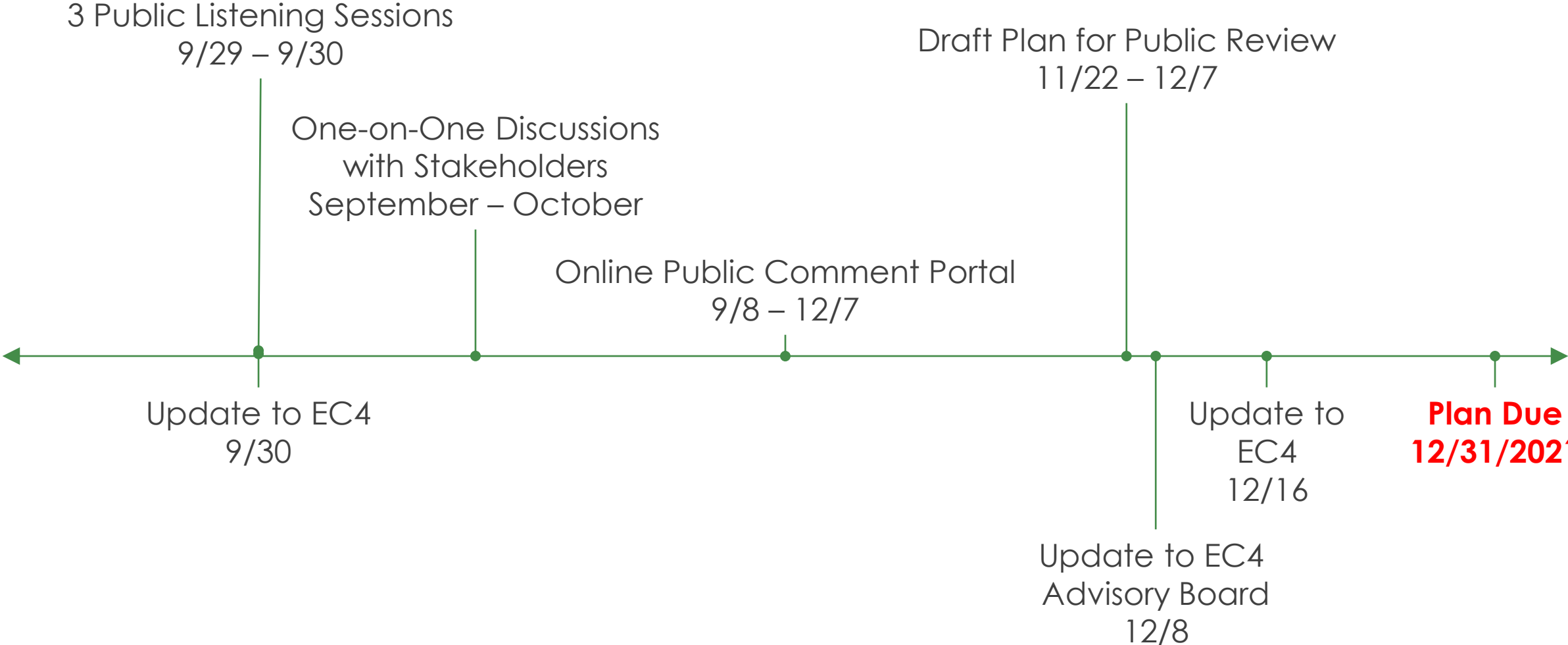
# Critical to Act on Climate

## Greenhouse Gas Emissions



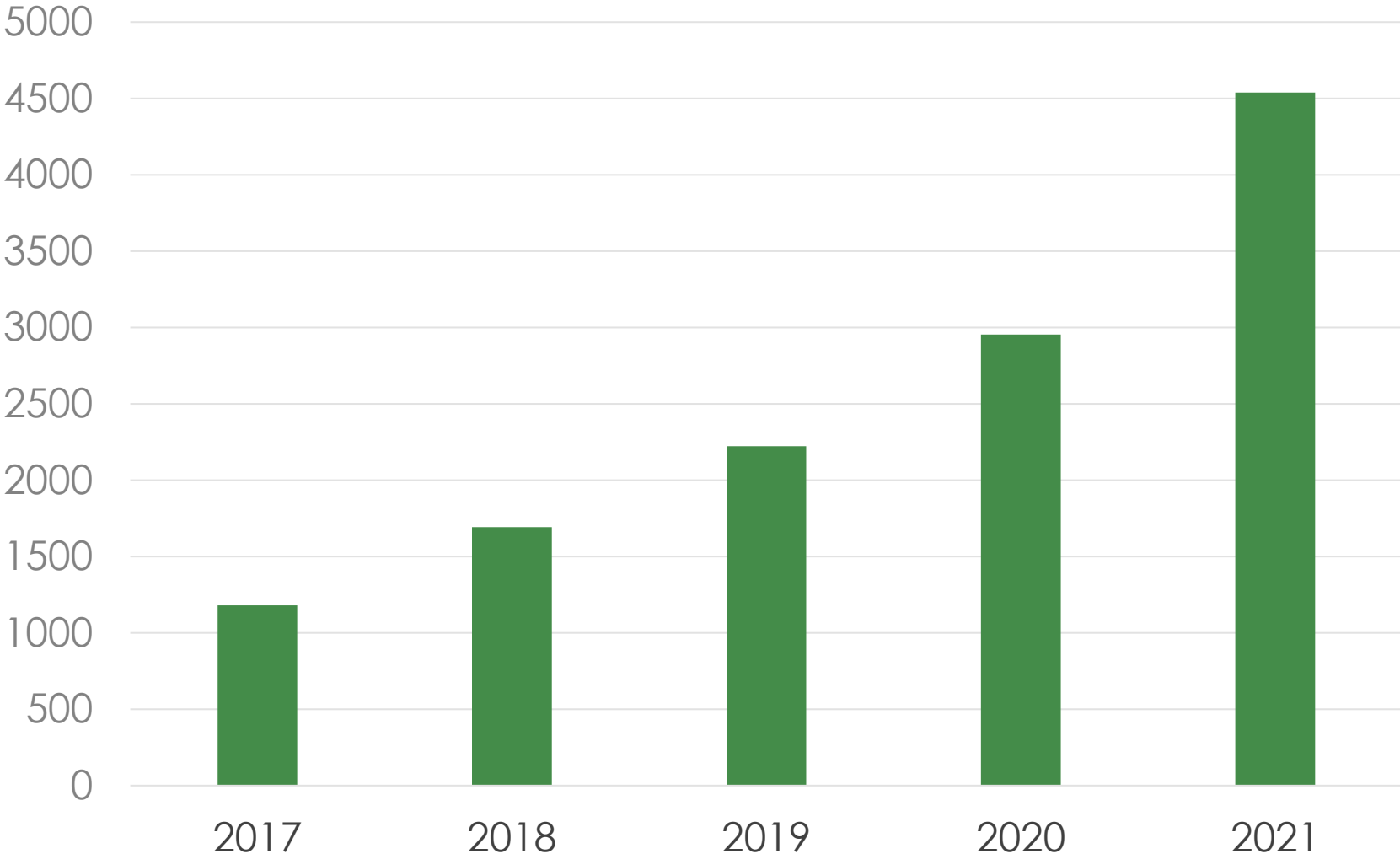
Source: RI DEM 2017 Greenhouse Gas Emissions Inventory

# How We Developed this Plan



# Electric Vehicle Growth in Rhode Island

Active Electric Vehicle Registrations

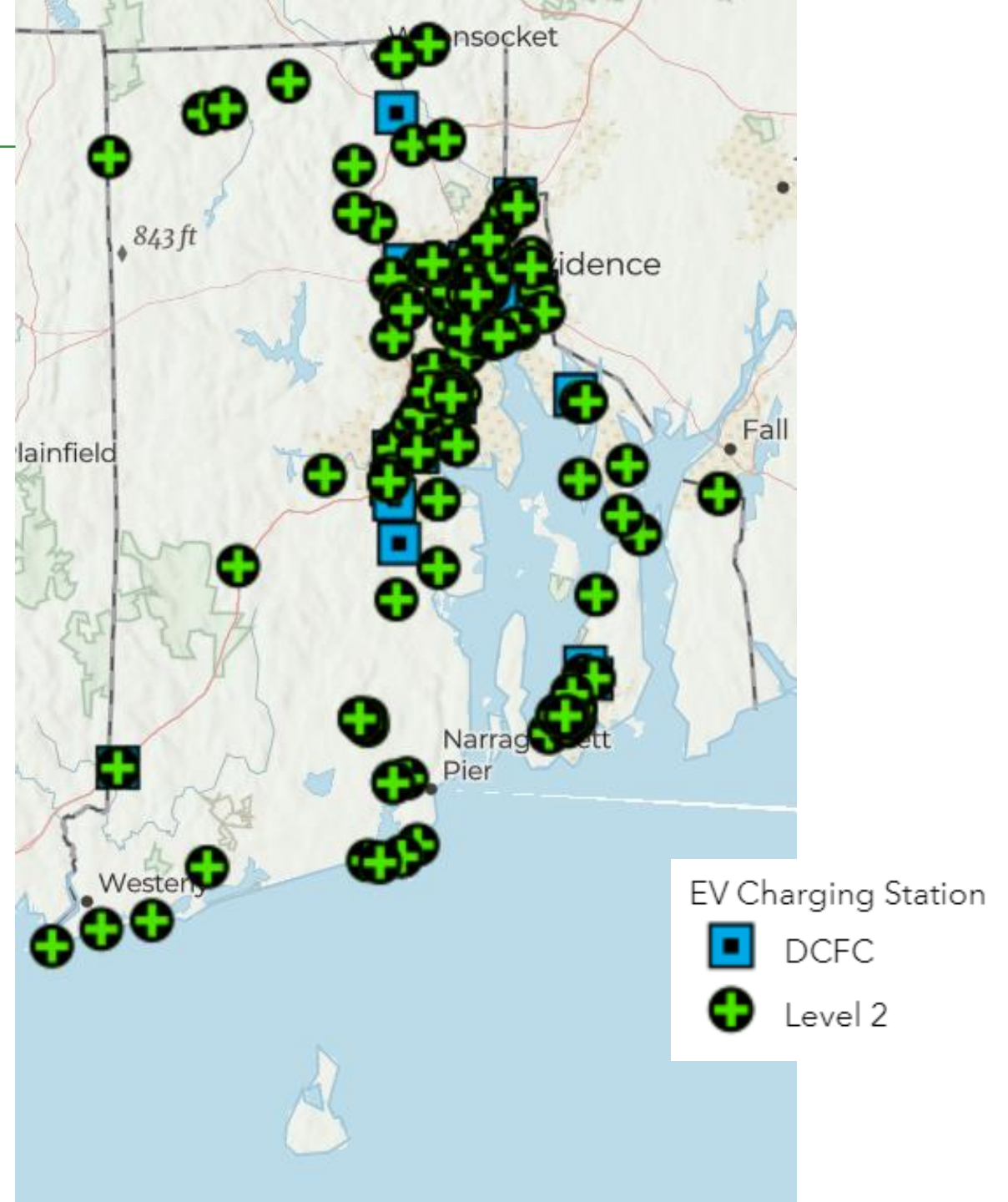


Data sourced from RI Division of Motor Vehicles

# Charging Infrastructure

- 238 public charging stations with 512 charging ports
  - 212 Level 2 charging stations
  - 26 DCFC stations
- RI is top 10 for electric vehicle charging ports per capita
  - Source: ICF, Supporting the U.S. DOE's Alternative Fuels Data Center, by email 12-3-21; Data as of Q1 2021
- Existing charging infrastructure is clustered near some urban and coastal areas

The map shows locations of charging stations, where a green cross indicates a publicly accessible Level 2 charging station, and a blue square indicates a direct current fast charging station (source: Alternative Fuels Data Center). Level 1 and not-publicly accessible charging stations are omitted from this map. Sourced by: Rhode Island Department of Environmental Management.







## Summary of Top-Level Priorities

- Reinvest in **incentive programs** for EVs and charging infrastructure
- **Refine EV and charging infrastructure programs** to align with priorities & equity considerations herein
- Demonstrate progress in **electrifying transit**, school buses, and medium- and heavy-duty vehicles
- Conduct an analysis to understand **transportation revenue impacts** and develop recommendations
- Support a **100% Renewable Energy Standard**
- Develop a clean transportation **dashboard**
- **Demonstrate action** through state agency commitments

# Eight Categories of Needs Identified



Locational  
Access



Physical Access



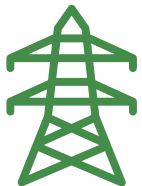
Utilization and  
Functionality



Public Health



Revenue for  
Transportation  
Infrastructure



Electric Grid



Workforce



Data Tracking  
and Reporting

# Agencies in Action





STATE OF RHODE ISLAND  
**OFFICE OF  
ENERGY RESOURCES**

**Rhode Island  
Office of  
Energy  
Resources**

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## 2022 Priority Action

The Office of Energy Resources, in coordination with the Department of Transportation and the Department of Environmental Management, will prepare an **investment strategy** and deploy federal funding for electric vehicle charging infrastructure.





**Rhode Island  
Infrastructure  
Bank**

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**2022  
Priority  
Action**

Promote deployment of charging stations and electric fleet conversions for private and public entities, with an emphasis on **supporting municipal, multi-unit housing, non-profit and commercial** properties. RIIB will utilize both existing and new financing and grant programs to accelerate the investment of public and private capital via the Bank's relationships with state, municipal and private sector stakeholders.





**Rhode Island  
Department of  
Administration**

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**2022  
Priority  
Action**

The Division of Capital Asset Management and Maintenance, in collaboration with the Office of Energy Resources, to develop a charging station **maintenance strategy** for charging infrastructure on State property and an **actionable plan** to both right-size and electrify the State fleet.





Rhode Island  
Executive  
Office of  
Healthy and  
Human  
Services

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2022  
Priority  
Action

In collaboration with other relevant state agencies, **inventory state owned fleet vehicles** designated for use by the Departments within the EOHHS structure, in cooperation with the State's plan to transition to electric vehicles.





**Rhode Island  
Public Transit  
Authority**

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**2022  
Priority  
Action**

Develop a **detailed strategy to fully electrify** the public bus fleet, including any necessary modifications to RIPTA's infrastructure, workforce, route planning, or other core aspects of operating a successful public transit fleet.







**Rhode Island  
Department of  
Labor and  
Training**

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**2022  
Priority  
Action**

**Hold industry convenings** with electric vehicle charging station developers, auto mechanics, and electricians to understand projected needs and challenges as electric vehicle adoption increases, and to identify potential future training and development opportunities.





Rhode Island  
Executive  
Climate  
Change  
Coordinating  
Council

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2022  
Priority  
Action

Coordinate **quarterly report outs** from agencies on progress and, in coordination with the Division of Motor Vehicles, Office of Energy Resources, and Department of Transportation, develop and maintain a **clean transportation dashboard**.





**Next Steps for  
Consideration  
by  
General  
Assembly**

- Enact a **100% Renewable Energy Standard** to enable transportation sector decarbonization.
- Direct DOT and OER in consultation with DEM to strategically deploy federal **Infrastructure Investment and Jobs Act** stimulus funding according to the priorities herein and in compliance with federal guidance.
- Identify funding to support (and sustain) **incentive programs** to encourage electric vehicle adoption.
- Consider **rights to charge** for Rhode Islanders who rent or lease.
- Consider **rights to repair** electric vehicles and charging stations.
- Consider legislation requiring a **minimum number of public parking spots** having charging station access.
- Consider passing **design and functionality standards** for electric vehicle charging infrastructure.
- Consider **requirements to advance building codes** to ready buildings for electric vehicle adoption.
- Provide guidance on **sustainable revenue mechanisms** to support transportation infrastructure and transit services in an electric transportation paradigm.

# Next Steps

- Final revisions and design
- **12/31 File report with the General Assembly and Governor**
- First week of January:
  - **Post report online**
  - **Press release**
- Q1 2022:
  - Agencies begin their priority actions
  - Federal funding guidance released
  - Agencies ready to deploy funding

