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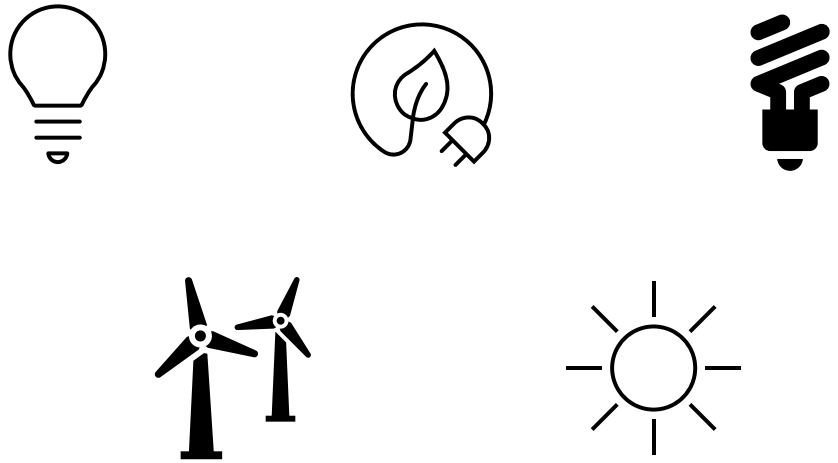
Energy Sector



February 12, 2025

10:00am – 12:00pm EST

Agenda

- ✓ Introductions
- ✓ Climate Pollution Reduction Grant (CPRG) Overview
- ✓ Energy Sector Relevant Metrics
- ✓ Clean Energy Workforce Planning
- ✓ Low-Income and Disadvantaged Communities (LIDAC) Considerations
- ✓ Open Discussion
  - ✓ Trends
  - ✓ Measures Presented
  - ✓ Needs from the region
  - ✓ Past experiences with Climate Policy
- ✓ Next Steps

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Introductions

- Name
- Affiliation / Organization
- Title / Position
- What area or region you typically work in
- Why you attended today

Climate Pollution Reduction Grant (CPRG) Overview

Program Goals:

Through the Inflation Reduction Act of 2022, Congress provided tools to pursue greenhouse gas (GHG) pollution reductions, including the Climate Pollution Reduction Grants (CPRG) program.

In implementing this program, EPA seeks to achieve three broad objectives:

1. Tackle damaging climate pollution while supporting the creation of good jobs and lowering energy costs for families.
2. Accelerate work to address environmental injustice and empower community-driven solutions in overburdened neighborhoods.
3. Deliver cleaner air by reducing harmful air pollution in places where people live, work, play, and go to school.

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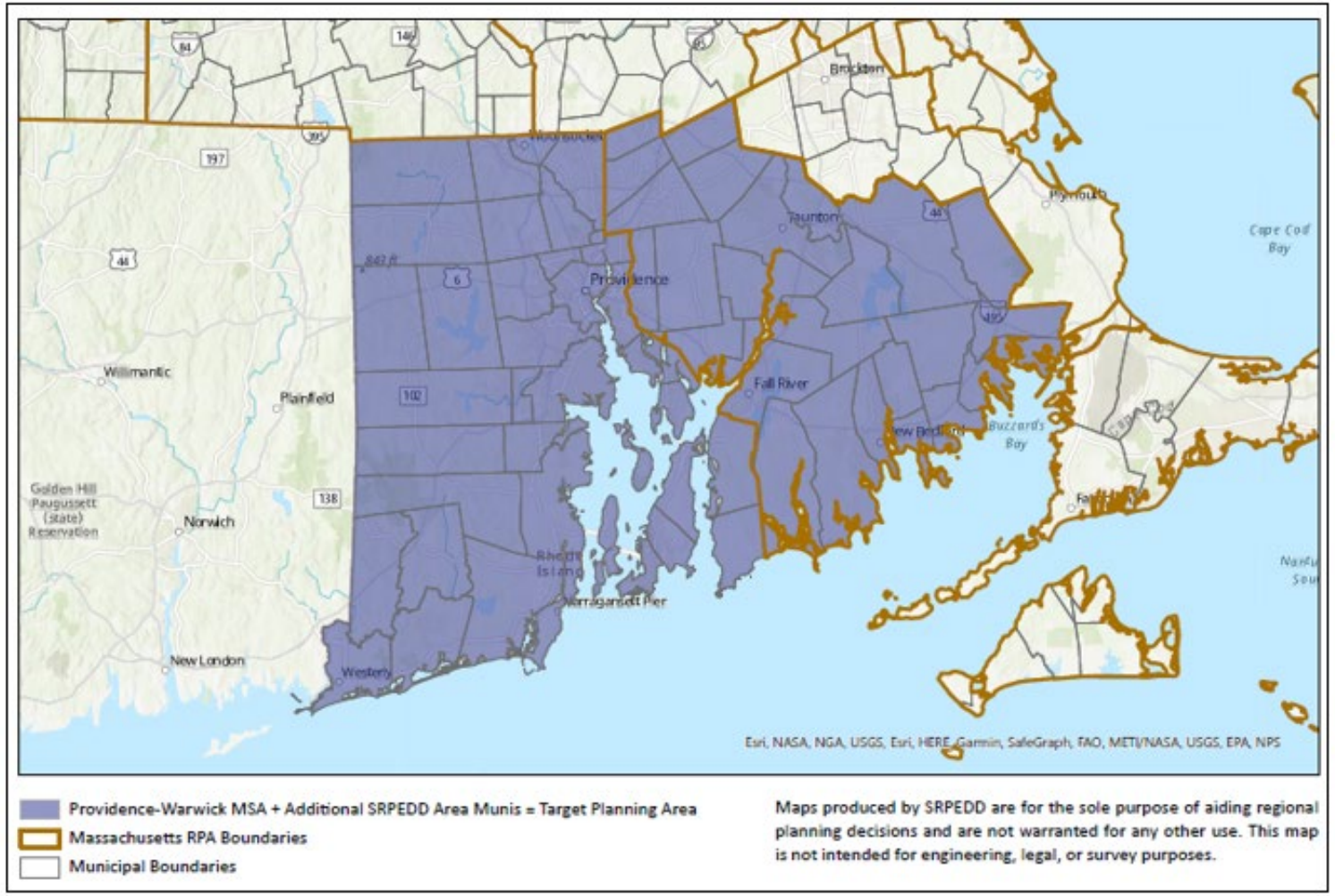
Climate Pollution Reduction Grant (CPRG) Overview

What is an MSA?

Delineated by the Census Bureau, MSAs represent "a core area containing a substantial population nucleus, together with adjacent communities having a high degree of economic and social integration with that core."

Figure 1: Providence-Warwick MSA CPRG Planning Area



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Climate Pollution Reduction Grant (CPRG) Overview

Comprehensive Climate Action Plan (CCAP) Requirements:

- A GHG inventory
- GHG emission projections
- GHG reduction targets
- Quantified GHG reduction measures
- A benefit analysis for the full geographic scope and population covered by the plan
- A low-income and disadvantaged communities benefits analysis
- A review of authority to implement
- A plan to leverage other federal funding
- A workforce planning analysis

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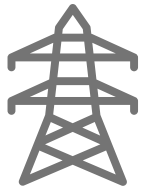
Energy Sector Relevant Metrics

E1: Regional grid upgrades to improve capacity for renewable electricity.



Potential Project Examples:

- Fund infrastructure and distribution improvements.
- Fund and expand grid resiliency grant programs.
- Fund engineering competition(s) to improve technology around efficient energy generation.

E2: Fund and streamline incentive programs for building decarbonization.

Potential Project Examples:

- Fund residential and municipal heat pump conversions and any prerequisite electrical system upgrades, prioritizing low-income and disadvantaged homeowners and renters.
- Supplement energy efficiency audit programs to fund all-inclusive home audits that consider safety, efficiency and electrification potential.
- Support homeowners and renters in navigating and participating in existing incentive programs.

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Energy Sector Relevant Metrics

E3: Provide appropriate, equitable energy storage solutions regionally for PV and Wind Energy

Potential Project Examples:

- Identify areas in each region that can supply or host an energy storage facility
- Supplement programs for energy, like Mass Saves, to create larger storage facilities

E4: Regional coordination, planning, and education to best implement renewable energy, energy retrofits, and regional project possibilities

Potential Project Examples:

- Create regional committees across the utility, engineering, and planning sectors to coordinate energy needs
- Create educational information based on current available grants, known data and information to disseminate
- Continue to develop within the Regional Greenhouse Gas Initiative in New England

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Clean Energy Workforce Planning: *Massachusetts*

Grid Modernization / Upgrades:

- Projected to create 1,645 direct jobs by 2027
- Estimated to cost $514.3 million by 2026

Installation of High-Voltage Transmission Infrastructure:

- Projected to create 11,902 jobs by 2040
- Estimated cost of up to $3.72 billion by 2040

Solar Power Infrastructure:

- Projected to create 293,664 direct jobs
- Estimated to cost $77.3 billion

Offshore Wind:

- Projected to create 30,634 jobs
- Estimated to cost $8.5 billion

Energy Storage Solutions:

- Projected to create 3,636 jobs
- Estimated to cost $1.04 billion

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Clean Energy Workforce Planning: *Rhode Island*

Grid Modernization / Upgrades:

- Projected to create 1,867 direct jobs by 2030
- Estimated to cost $583 million

Solar Power Infrastructure:

- RI plans to install 900 MW across utility, commercial, and residential sectors by 2030; increasing to 2,000 MW by 2040

Offshore Wind:

- RI plans to expand its offshore wind by 1,300 MW by 2030; increasing to 3,000 MW by 2040

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Trends

- Effects from COVID-19
  - Less commuters
  - More work from home demand
- Energy Storage Solutions
  - State of Massachusetts allowing storage where PV is allowed
  - Concerns for EJ neighborhoods
  - Micro batteries vs. larger storage facilities
- What have you noticed?

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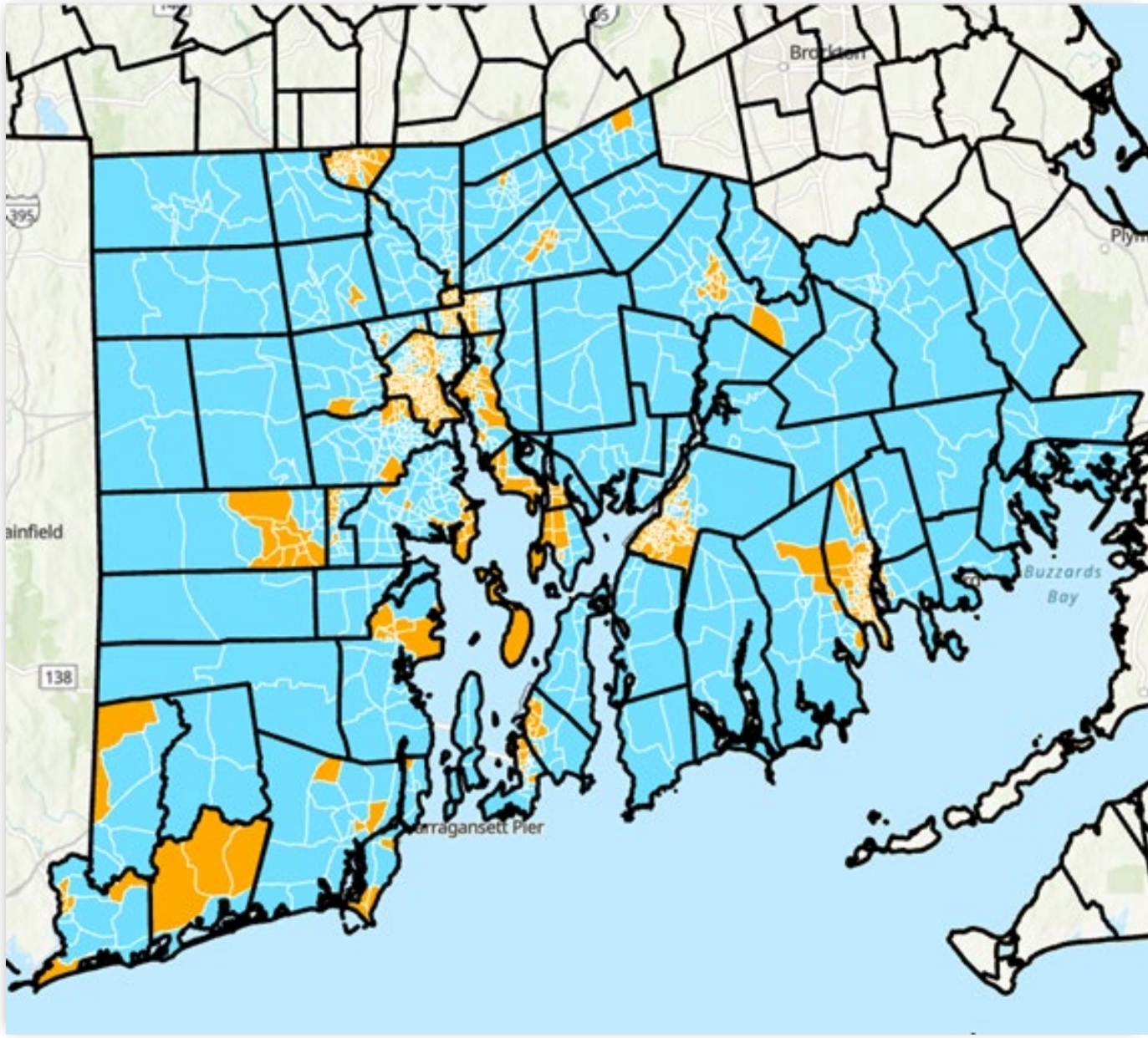
LIDAC/EJ Considerations

- Map of our Environmental and Low-Income Disadvantaged Communities
- Concerns for implementing solar programs towards low income and disadvantaged individuals, placement of solar storage facilities, high hazard transformers



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Workforce Development Needs

- Where are there gaps in education in the industry?
- What kind of jobs are needed to support renewable energy creation?
- What experience is helpful in successful utility workers, PV installation, wind installation, and energy storage creation?

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Open Discussion

1. What are the priorities in your field of work for energy efficiency?
2. What climate programs are effective? Which ones are not?
3. What needs are you experiencing regionally? Anywhere from Providence in particular?
4. Are there new innovations you would hope to integrate that you have not been able to yet?
5. What programs have you integrated into Low Income and Disadvantaged Communities that have worked or not worked?

E1: Regional grid upgrades to improve capacity for renewable electricity.	**E2: Fund and streamline incentive programs for building decarbonization.**
E3: Provide appropriate, equitable energy storage solutions regionally for PV and Wind Energy	**E4: Regional coordination, planning, and education to best implement renewable energy, energy retrofits, and regional project possibilities**

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Next Steps

Please take the sector survey or share it with other people in your field:

www.surveymonkey.com/r/DSLSYFG

If you have other thoughts or concerns, please feel free to email amatthews@srpedd.org

Thank you!

Please visit the project page at: srpedd.org/CPRG/

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