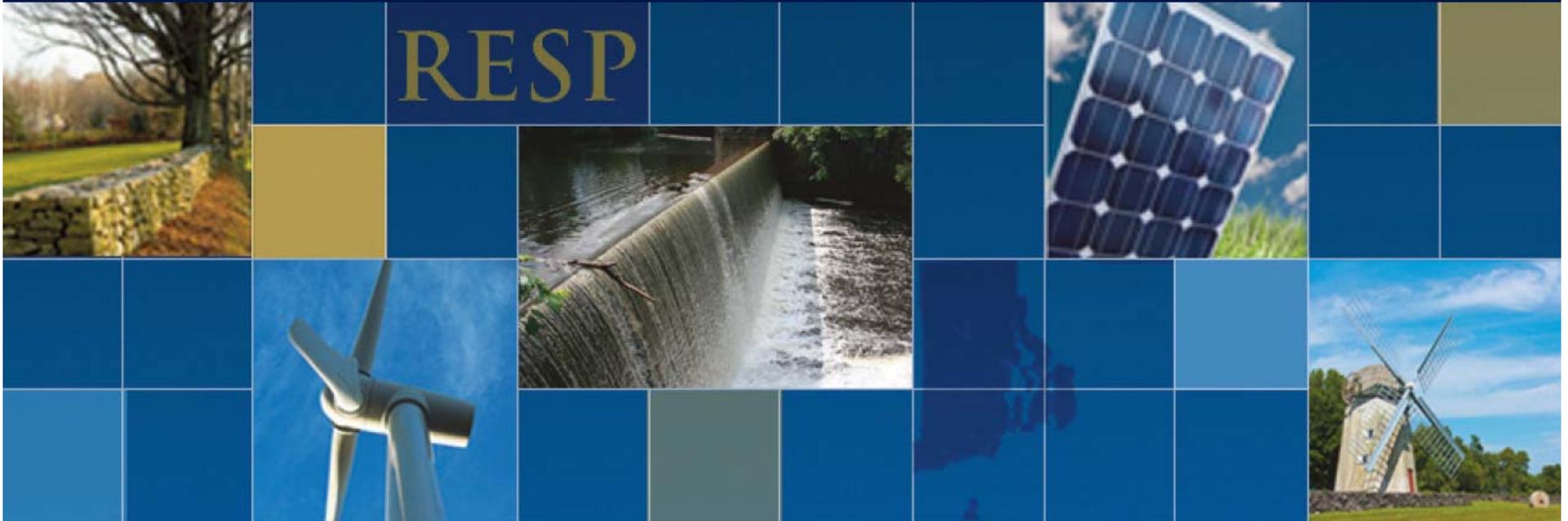


# RENEWABLE ENERGY SITING PARTNERSHIP (RESP)

Helping Communities Make Renewable Energy Decisions



## Renewable Energy Coordinating Board

*Friday, September 28, 2012*

*9:30 a.m.-10:30 a.m.*

*RI Dept of Administration*

*Rhode Island*  
**Renewable Energy Siting Partnership**



  
COASTAL RESOURCES CENTER  
*University of Rhode Island*

  
**Sea Grant**  
Rhode Island

THE  
UNIVERSITY  
OF RHODE ISLAND  
OUTREACH CENTER

*Rhode Island*  
**Renewable Energy Siting Partnership  
(RESP)**

Rhode Islanders will have access to relevant information so they may make informed, fact-based decisions about renewable energy



# RESP Project Team

- RI Office of Energy Resources
- University of Rhode Island
  - *College of Environment & Life Sciences (CELS)*
  - *Graduate School of Oceanography (GSO)*
  - *Outreach Center (OC) / Land Grant Energy Program*
  - *Coastal Resources Center (CRC) / RI Sea Grant*



# Rhode Island Renewable Energy Siting Partnership

Wind

Solar

Hydropower

Energy Data &  
Analytics

Mapping

Data Aggregation

Outreach &  
Stakeholder  
Engagement



RHODE ISLAND ENERGY



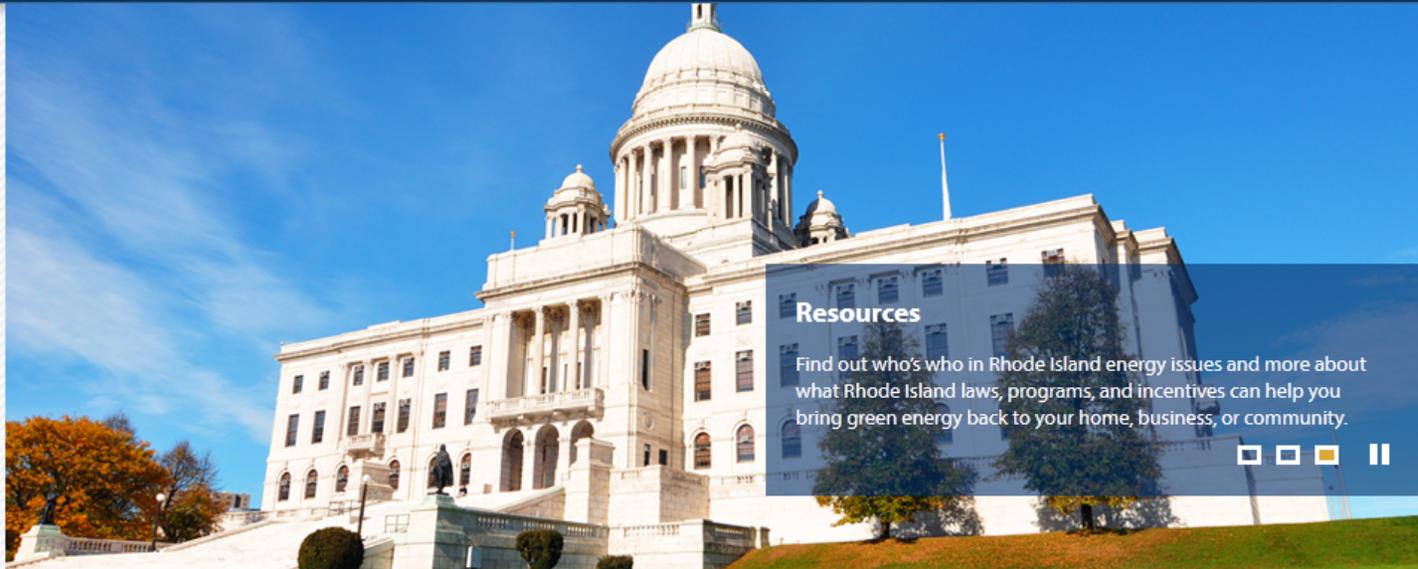
# Research Findings

- **Resource Assessment**
  - Wind: Highest wind speeds in coastal areas.
  - Hydropower: About 15 to 20 MW of conventional hydropower potential on existing dams.
  - Landfill Solar: About 400 MW of landfill solar potential, 100 MW on potentially suitable areas
- **Development Constraints & Opportunities**
- **RI Energy.org**
  - State-specific energy data to support outreach, education, research, and decision-making

**→ The RESP provides data & tools to inform strategic energy planning**



# RHODE ISLAND ENERGY



**Resources**

Find out who's who in Rhode Island energy issues and more about what Rhode Island laws, programs, and incentives can help you bring green energy back to your home, business, or community.

## Your one-stop-shop for Rhode Island energy information . . .

Welcome to RI Energy.org, Rhode Island's state clearinghouse for energy data, resource mapping and siting tools, and information for citizens, businesses, and government officials. By providing Rhode Island decision-makers and communities with easy access to a centralized source of energy information, RI Energy.org is paving the way for the Ocean State to capture a smarter and brighter energy future.





# RHODE ISLAND ENERGY

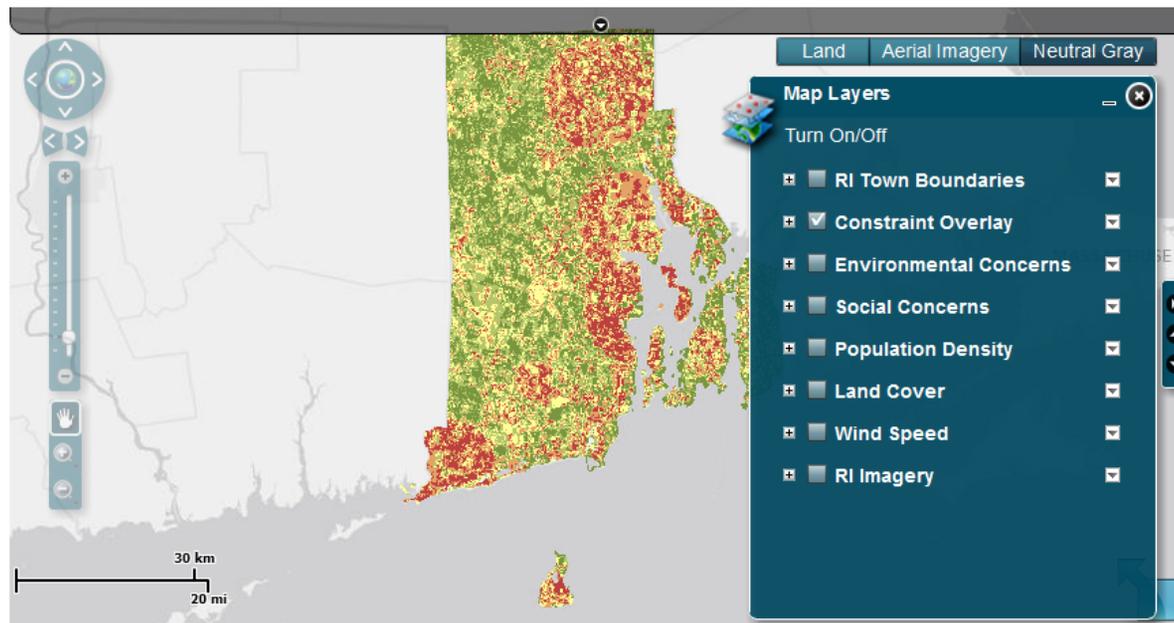
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## MAP VIEWER



## WIND TRENDS

[Wind Capacity \(Rhode Island\)](#)

[Wind Projects \(Rhode Island\)](#)

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# RI Energy.org Data Center

## Download Data

The RI Energy Data Center houses a wealth of Rhode Island-specific energy data in a variety of formats (tabular, pdf, geospatial). Information is available on energy resources, consumption, prices, generation, infrastructure, and emissions for different fuels and energy sources across multiple end-use sectors. Visual data displayed in the RI Energy Map Viewers can be accessed in raw format here. Browse through each dropdown section below to find the data you want:

*(Technical documentation on data sources and methodology for data compilation may be found [here](#) or via the [dropdown below](#).)*

The datasets below were last updated May, 2012.

### Consumption & Efficiency

Download

[Rhode Island Energy Efficiency Program](#)



Rhode Island Electric and Gas Programs Expenditure, Benefits, and Savings (Projected & Actual) (Yearly)

[RI Energy Consumption by ZIP Code](#)



RI Electricity and Gas Consumption by Sector by ZIP Code

### Electricity

Download

### Emissions

Download

## MORE RESOURCES

WHO'S WHO

ENERGY 101

DOWNLOAD DATA

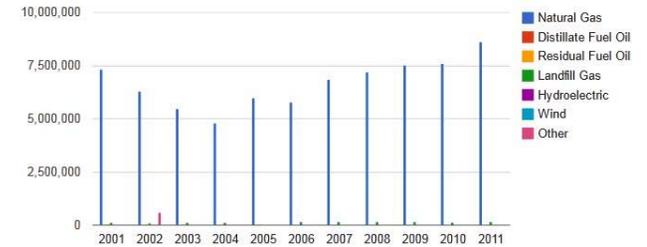
PROGRAMS & POLICIES

PAPERS

## ELECTRICITY TRENDS

RI Annual Electricity Generation    RI Annual Emissions    Regional Net Energy    Day-Ahead Prices    Regional Electricity Consumption

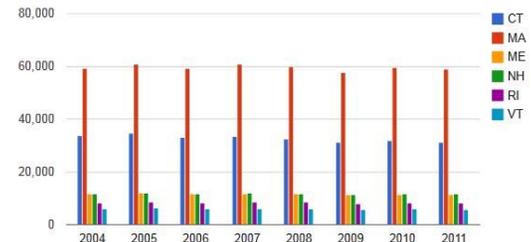
RI Annual Electricity Generation (GWh)



## ELECTRICITY TRENDS

RI Annual Electricity Generation    RI Annual Emissions    Regional Net Energy    Day-Ahead Prices    Regional Electricity Consumption

Annual Regional Electricity Consumption (GWh) (electric wholesale data)



# Technical Assistance

- Wind:
  - Siting Guidelines & online siting tool
- Hydropower:
  - Continuation of integrated watershed approach for new proposals
- Large Solar:
  - Guidance for RFPs, permitting, zoning, and tax payments – Massachusetts as a model

**→ There is a need for ongoing technical assistance for cities & towns and an implementation strategy for the RESP on the municipal level**

# Outreach and Public Engagement

- 9 stakeholder meetings
- 9 municipal working group meetings
- 4 public workshops held addressing
  - public comments on the draft products
  - property value impacts
  - Rhode Island Renewable Energy Day
- 4 science lectures
- 4 field trips to existing renewable energy projects
- 2 Hydropower Workshops to develop hydropower siting guidance
- 300 comments received during the 60 day public comment



# Public Comments

- Consequences of “status quo” not addressed. Concern that RESP did not discuss the benefits of renewable energy compared to current energy sources.
- Turbine failure and blade throw statistics (Rogers et al. (2011))
- Request additional research on property value and health impacts

**→ Further siting research is needed, particularly on property value impacts**



# Public Comments → Wind Guidelines

- Majority from members of the SWPP Wind Advisory Council
- More commenters thought guidelines were too restrictive
  - 2 commenters thought they weren't strict enough
- Comments addressed:
  - Revising guidelines to be less like standards and more general guidance
  - Guidelines should only set minimums and not ranges
  - Risk that municipalities will follow these guidelines as state standards
  - Impose restrictions that other types of development does not have to comply with
  - Most controversial guidelines:
    - Safety Setbacks (too large and not large enough)
    - Noise and Flicker
    - Property Value Impacts (unfair condition vs. does not go far enough)

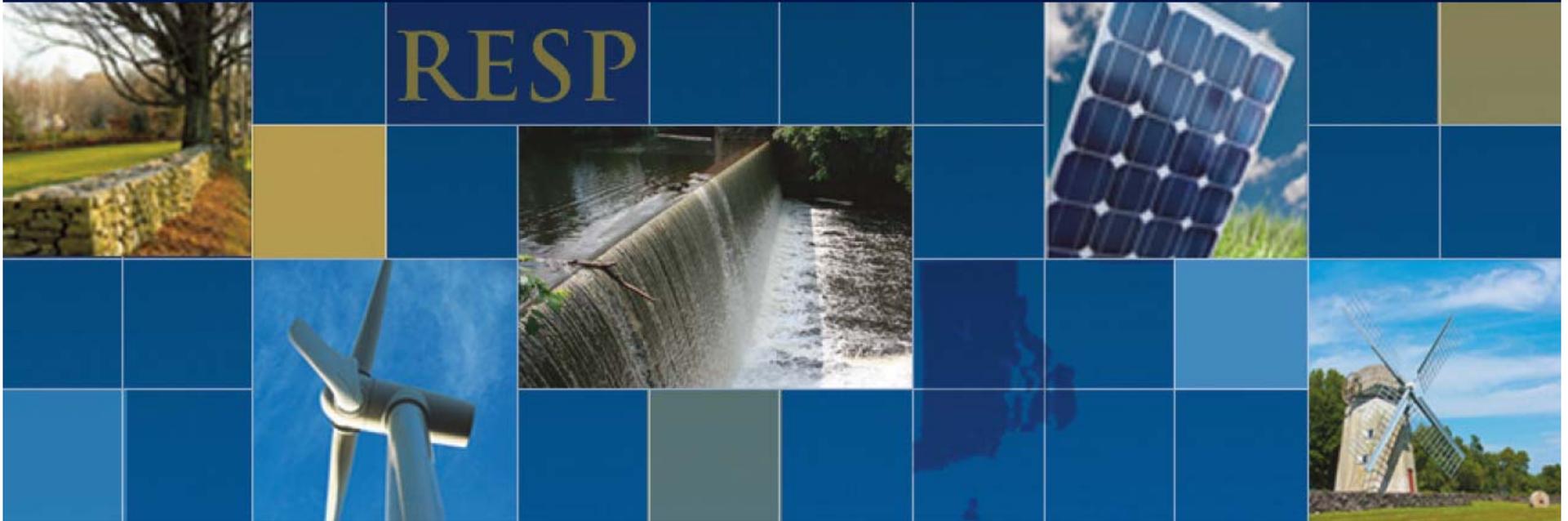
# Moving Forward

- The RESP provides data & tools to inform strategic energy planning
- There is a need for ongoing technical assistance for cities & towns and an implementation strategy for the RESP on the municipal level
- Further siting research is needed, particularly on property value impacts
- Wind Guidelines



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