R.I. DIVISION OF PUBLIC UTILITIES AND CARRIERS, R.I. OFFICE OF ENERGY RESOURCES & PUBLIC UTILITIES COMMISSION

GUIDING THE FUTURE OF RHODE ISLAND’S ELECTRICAL GRID
THE OPPORTUNITY

FOR CLEAN ENERGY
1000 MW BY 2020
UNSUBSIDIZED LEVELIZED COST OF SOLAR

LCOE
$/MWh

$450

$375

$300

$225

$150

$75

$0

2009
2010
2011
2012
2013
2014
2015
2016

Utility-Scale Solar Seven-Year Percentage Decrease 85%

Rooftop C&I Solar

Utility-Scale Solar
UNSUBSIDIZED LEVELIZED COST OF WIND

LCOE
$/MWh


Wind Seven-Year Percentage Decrease 66%
THE GRID WAS BUILT FOR A DIFFERENT ERA
TODAY’S GRID IS BECOMING A TWO-WAY SYSTEM
INTEGRATE RENEWABLES
GIVE CUSTOMERS OPTIONS to control their energy usage
INCREASE SYSTEM EFFICIENCY to control costs

Ten Years of Rhode Island Peak Energy Demand

Demand in Megawatts

8,760 Hours per Year
BENEFITS

- Control long-term utility costs
- Flexibility for customers
- Improved infrastructure planning to spur innovations in clean energy
Rhode Island Clean Energy Policies

Systems Integration Rhode Island (SIRI)

Docket 4600

Four work streams
WORK STREAMS
Utility Business Model

Distribution System Planning

Grid Connectivity Functionality

Beneficial Electrification of Transportation & Heating
UTILITY BUSINESS MODEL

‣ What functions should the utility perform?

‣ How should the utility be compensated for each of the functions it performs?

‣ What is the appropriate role of performance metrics in utility compensation and which metrics should drive it?
• What outcomes should distribution system planning promote?

• What aspects of utility operations should distribution system planning address?

• How accessible should distribution system planning be to third parties?
What activities are important for the utility to consider and prioritize in developing a plan to encourage growth of beneficial electric vehicles and heating?

Are there characteristics unique to the Rhode Island transportation and heating market that should be considered in answering the questions above?
GRID CONNECTIVITY FUNCTIONALITY

- Where are the grid-facing and customer-facing functionalities necessary to realize benefits for Rhode Island customers?

- What scenarios or deployment strategies provide most benefit for Rhode Islanders now and into the future?
APRIL–MAY
Technical meetings

JUNE–SEPTEMBER
Facilitated engagement with draft proposals

OCTOBER–NOVEMBER
Presentation of regulatory proposals

JANUARY–JUNE 2018
Review of proposals through Public Utilities Commission processes
LET’S ROW TOGETHER

- Join us at technical meetings
- Provide input & comments on straw proposal components
  June through October
- Written thoughts on work stream questions
- 4/24: UBM Meeting
- 5/9: Grid functionality meeting
STAY CONNECTED

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http://www.ripuc.ri.gov/utilityinfo/electric/PST_home.html
DISCUSSION