



STATE OF RHODE ISLAND

ENERGY EFFICIENCY & RESOURCE MANAGEMENT COUNCIL

MEETING MINUTES

Thursday, March 16th 2017 | 3:30 - 5:30 PM

Conference Room A, 2nd Floor, Department of Administration, Providence, RI

Members in Attendance: Abigail Anthony, Chris Powell, Michael McAteer, Anthony Hubbard, Roberta Fagan, Tom Magliocchetti, Karen Verrengia, Joe Cirillo, Carol Grant.

Others Present: Mike Guerard, Savannah Harik, Becca Trietch, Rachel Henschel, Emily Levin, Abel Collins, Brian McCowan, Chon Wong, Belinda Wong, Tom Coughlin, Dino Larson, Mark Kravatz.

1. Call to Order

Chairman Chris Powell called the meeting to order at 3:38pm.

2. Approval of Meeting Minutes

Chairman Chris Powell reported that because we did not have a quorum, we could not vote on the approval of the meeting minutes.

3. Executive Director Report (5 min)

a) Three- Year Themes from OER (10 min)

Commissioner Carol Grant was not present at this time of the meeting. Since we did not have a quorum this agenda item could not be moved.

4. Executive Committee Report

a) Summary of Dunsky presentation

Chairman Powell reported that Dunsky was present at the last EERMC Executive Committee meeting. Before the Executive Committee meeting, Dunsky had met with National Grid, RIIB, PUC and OER. Dunsky will be attending the Full Council meeting in May to report what they are working on regarding financing topics. Currently, they are creating a consistent reporting matrix that can be applied across all financing initiatives and programs. They are also looking at improvements in other systems that will better integrate financing into the Three-Year Plan.

b) PUC Technical Session Report

Abigail Anthony attended the PUC Technical Session last week and reported that the hearing covered the EERMC's proposed 2018-2020 Energy Saving Targets, the Proposed Revision of Least Cost Procurement Standards and Proposed Revision of System Reliability Standards. This technical session was an opportunity for Commissioners and their staff to ask questions about the proposals that the EERMC has made. The PUC staff had questions about the 2018-2020 Energy Savings Targets Budget. All of the technical session attendees consistently answered that it was too soon to talk about the budget since budgets are largely determined by program designs. More concrete numbers regarding the budget should be known by early September.

Also, the PUC staff are very interest in how the EE Financing will help achieve our Three- Year goal and how it will impact the budget needed for those goals. Abigail ended the report by stating that the sessions was very productive, and that they would hopefully have a decision made by April 15th.

5. Schedule and Process for the Three- Year Plan

Rachel Henschel gave a presentation about the Schedule and Process for the Three-Year Plan. She also shared that once the decision from the Commission is made on the Targets, they should have a first draft of the Three-Year Plan completed by the second week of July. A week later, the collaborative will have a meeting and will look through the draft. The second draft will be circulated later in July, and then in August the Council members will receive a copy so that the Council can vote on it. Rachel stated that once approved, the Three-Year Plan will be submitted and filled at the PUC by September 1st.

During this time, Mike Guerard also introduced Emily Levin from VEIC to the Council and gave a brief overview of her background. She will be helping to cover some of the work Scudder from VEIC is currently doing. Scudder will be retiring later this summer.

6. Council Business

a) Communications Working Group Update

Mike Guerard stated that the Website development is currently in the works and that since it is a four week process from choosing the firm and hiring them, they hope to start the development in May and launch it by the second half of the year.

Mark Kravatz reported that the Teaching and Learning survey came back with various results. He stated that this is going to be a learning curve and there is a lot of topics to go over. They are thinking of doing one-on-ones or small group discussions so that they can start going over the topics identified in the survey. Mark Kravatz reported that he is extremely excited about the next steps to move forward.

Becca gave a brief update about how Savannah is putting together a sheet about EERMC facts and a display board for the Energy Expo. Once it is all in a final draft, Becca will share these items with everyone electronically so that the members can take a look. Becca also reported that the Annual Report writing assignments will be sent out within the next week.

7. Special topics Presentation

a) Stretch Code Presentation

Brian McCowan from ERS and Tom Coughlin from National Grid gave a presentation about Stretch Codes. They gave a brief overview of the Stretch Code development process, what they need to do to finalize the Commercial Stretch Code and the on-going process to draft a Residential Stretch Code. The first draft of the Commercial Stretch Code was done in December, and the first revisions were completed in February. Second-round revisions are getting done now. The presentation also summarized the content and provisions of the draft Commercial Stretch Code.

8. Public Comment

Since Commissioner Carol Grant was not present for her Executive Director Report, she gave a brief update during the public comment timeslot. First, Commissioner Grant reported that she attended the State Planning Council Meeting last week and was very happy that Diane Williamson was honored in her capacities as a planner for her outstanding work with the State. Secondly, Commissioner Grant stated that she had included a fact sheet about the Governor's Announcement on the 1000MW by 2020 in Council Member packets. Lastly, the Governor has charged the DPUC, PUC and OER with working to

design a new regulatory framework for Rhode Island's electric system. If there is any council member interested in participating in this project, Commissioner Grant asked that they please let her know.

She also reported that she will be on the Rhode Show, March 31st during the Rhode Island Expo to help encourage attendance.

Becca Trietch gave a very brief update for OER's four major themes for the Three-Year Plan, which are: Increasing and optimizing financing options; optimizing and increasing Low-to-Moderate Income Programs; finding ways to support energy efficiency improvements for Delivered Fuels customers, and last but not least, attempting to address Winter Gas Peak issues.

Joe Cirillo announced that his re-appointment to the Council has been completed. So he looks forward to participating for another five years.

9. Adjournment

Chairman Chris Powell asked for a motion to adjourn the meeting. Abigail Anthony made a motion and Karen Verrengia seconded it. All approved. The meeting was adjourned at 5:08pm.

Meeting Materials



STATE OF RHODE ISLAND
**ENERGY EFFICIENCY &
RESOURCE MANAGEMENT COUNCIL**

MEETING MINUTES

Thursday, February 16th 2017 | 3:30 - 5:30 PM

Conference Room A, 2nd Floor, Department of Administration, Providence, RI

Members in Attendance: Abigail Anthony, Bob Bacon, Joe Cirillo, Carol Grant, Michael McAteer, Shigeru Osada, Chris Powell, Karen Verrengia, Betsy Stubblefield Loucks, Tom Magliocchetti, Diane Williamson, Anthony Hubbard, Roberta Fagan.

Others Present: Mike Guerard, Raquel Webster, Savannah Harik, Becca Trietch, Sara Canabarro, Rachel Henschel, Kat Burnham, Muxi Yang, Angela Li, Ben Rivers, George Sfinarolakis.

1. Call to Order

Chairman Chris Powell called the meeting to order at 3:37pm.

2. Approval of Meeting Minutes

Chairman Powell asked for a motion to approve the minutes. Bob Bacon made motion, Karen Verrengia seconded it. All approved.

3. Executive Director Report (5 min)

Commissioner Carol Grant reported that the OER is focusing on four primary areas, which are: Clean Energy; Continue Leadership in Energy Efficiency; the Lead by Example Effort; and the Future of Electricity Grid, in which the OER, DPUC, PUC and others are working with National Grid.

Commissioner Grant also added that they have found a candidate to fill Rachel Sholly's position to work at the OER.

4. Executive Committee Report (15 min)

Chairman Powell stated that he spoke with Marisa Desautel, the EERMC counsel, about PUC deadlines and times to meet. Ms. Desautel had reported that a Technical session on the EERMC's proposed 2018-2020 Energy Efficiency Savings Targets and LCP Standards is scheduled for March 7th. In addition, Mr. Powell stated that Ms. Desautel's contract for legal services allows one more, one-year extension. The Executive Committee recommends extending it, but the Council will vote on this item later tonight.

Chairman Powell also reported that Betsy Stubblefield Loucks requested to step down as the 3rd member of the Executive Committee. Therefore, we will have to pick another 3rd member. He requested that if anyone on the council is interested, please talk to Commissioner Grant or Chairman Powell tonight or within the next few days.

Chairman Powell also informed the council that the special topic today, Lead by Example, would be presented by George Sfinarolakis from OER. He stated that they would be having special topics every meeting, and that he is open to any suggestions about possible topics to present.

Finally, Chairman Powell reported that at the Executive Commitment meeting, Nick Ucci from OER had mentioned a newer initiative on gas peaking demand issues. Mr. Ucci had talked about how OER was reviewing potential programs/options to help with this issue. Mr. Osada asked for more information

about the gas peaking topic, and Commissioner Grant asked that since Mr. Ucci was not present and was taking the lead on this topic, to provide time at the next Full Council meeting to discuss it further.

5. Schedule and Process for the EERMC Annual Report to General Assembly

Mike Guerard presented a schedule and some updates about how the EERMC Annual Report will be drafted. He also showed a brief outline of topics that had previously been covered by the report. Chairman Powell added that if someone does not know what the Annual Report looks like, they can access the past years online.

6. Updates on Energy Efficiency Programs and System Reliability Procurement

a) Review of 2016 Energy Efficiency Program

Angela Li, Muxi Yang and Ben Rivers had a brief presentation about the preliminary results of its energy efficiency programs for 2016. They reported that they reached over 100% participation for residential programs, and that the full portfolio would be over 100%.

They also shared that National Grid is rolling out a demo test for their Wi-Fi thermostat program for residential customers in March. and that this residential demand response program is new in Rhode Island. They hope to have some updates about the Demo in a few meetings.

7. Council Business

a) Vote on Final EERMC Budget

Becca Trietch reported that she had corrected the errors in the 2017 budget identified last meeting. She stated that the spending was very similar to the 2016 Budget.

Chairman Powell asked for a motion to approve the 2017 Budget. Joe Cirillo made motion and Bob Beacon seconded it. All approved.

b) Vote on Legal Contract Extension

Chairman Powell asked for a motion to approve a year-long extension of the current legal contract for Ms. Desautel, which is the second and final option for renewal. Bob Bacon asked why it was so much cheaper this year compared to last year. Becca Trietch reported that it was cheaper because last year there was a lot more work with several Dockets compared to this year. Karen Verrengia made motion and Bob Bacon seconded it. All approved.

c) Communications Working Group Update

Becca Trietch introduced Savannah Harik, who is the new EERMC intern. Ms. Trietch and Ms. Harik are working on the energy expo documents, and Ms. Harik is going to put together a display about Energy Efficiency in Rhode Island and some information about the EERMC for the Expo. Ms. Trietch is going to have tickets to be distributed by all the members who would like to attend the Expo at the next meeting.

The next topic the Communications Working Group will be discussing is the website development. The group will update the Council at the next meeting.

8. Special Topics Presentation

a) Lead By Example Update

George Sfinarolakis gave a presentation about the Lead by Example efforts and talked about the Executive Order by the Governor. Commissioner Grant suggested getting the Full Council members the copy of the Governor's Budget Article by next meeting.

The presentation was followed by a brief discussion amongst the council members about Strategy Energy Management Plans (SEMPs) with National Grid.

b) Review of Teaching- Learning Survey

Mike Guerard gave another brief introduction of Savannah Harik and let her go over the Teaching-Learning updates. Ms. Harik informed the members that she and Mark Kravatz are developing a survey which is expected to be sent out to the members by next week. The survey will gauge knowledge of energy efficiency related topics to better tailor future Special Topic presentations at council meetings. Once the survey is completed by the members, Ms Harik, the consultant team, and Ms. Trietch will use the responses to draft an EERMC Special Presentations schedule.

9. Public Comment

There was no public comment.

10. Adjournment

Chairman Chris Powell asked for a motion to adjourn, Karen made motion, and Bob Bacon seconded it. All approved. The meeting was adjourned at 5:04pm.

DRAFT

2018-2020 Three-Year Plan

Overview of Timeline and Topics

RI EERMC

March 15, 2017



- National Grid's high-level plan to achieve the Council's energy efficiency targets, informed by the Council and stakeholders and formally settled with parties through the RI Collaborative
- Includes descriptions of strategies to achieves savings targets and themes to achieve wider objectives
- Includes the System Reliability 3 Year Plan
- Acts as a roadmap for more detailed Annual Plans
- Illustrates costs, customer charges, and consumer benefits based on best information available

- Annual Plans include specifics and details:
 - Specific program design enhancements
 - Innovations such as new demonstrations
 - Revenue projections
 - Adjustments to EE program charge calculations
 - Customer bill impacts
 - Evaluated savings, benefits and cost effectiveness
 - Accurate program budgets

- Ongoing: Deep dives on topics with RI Collaborative
- April 15: PUC decision on targets and standards
- July 10: First draft circulated
- July 28: Second draft circulated
- August 10: Final draft circulated
- August 17: EERMC vote on 3-Year Plan
- Sept. 1: Settlement filed with PUC

- How will National Grid achieve the Council's 2018-2020 savings targets and deliver customer benefits?
- How can customer services be enhanced or optimized?
- How can programs address policy objectives such as reducing carbon?
- How can energy efficiency and system reliability work together toward modernizing the grid and preparing for the future?

Stretch Codes

Brian McCowan, ERS



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



nationalgrid
HERE WITH YOU. HERE FOR YOU.

Purpose

- OER has undertaken the development of a stretch code as directed by Executive Order 15-17
- In August of 2016 the EERMC approved the work plan for ERS to work with the OER and an advisory committee to develop a draft stretch code
- Today we will be reporting on the progress of the stretch codes for both commercial buildings and residential buildings

Presentation Overview

1. **Brief overview of stretch code development process**
2. **Commercial stretch code progress and status update**
3. **Commercial stretch code content summary**
4. **Process for finalizing commercial stretch code**
5. **Residential stretch code update**
6. **Project Timeline**

Stretch Code Development Process

- Engage stakeholders
- Review model stretch codes and high performance building programs
- Research near future base code development
- Establish code model and modify with input from stakeholder group
- Establish methodology for working with National Grid efficiency and renewable energy programs
- Staff and stakeholder review of draft documents
- Produce final draft

Commercial Stretch Code Status

- **International Green Construction Code (IGCC) selected as model code**
- **All energy efficiency provisions upgraded to align with NGRID programs and assure performance above base codes and standard practice**
- **Additional provisions amended with input from staff, RI Green Building Advisory Committee, and stakeholders**
- **Process established with NGRID for synergistic support of the Stretch Code and efficiency programs**

Commercial Stretch Code Status, cont.

- **Draft commercial Stretch Code completed December 2016**
- **Initial review completed and revisions incorporated February 2017**
- **Final staff and stakeholder review currently in process**

Commercial Stretch Code Content Summary

Energy Efficiency

- Prescriptive and performance paths
- Building envelope, mechanical, and lighting systems addressed
- All proposed provisions are a minimum of 10% above base code performance levels and \geq NGRID incentive qualification level
- Required zEPI score (progress toward zero net energy) also established 10% above proposed base code levels
- Enhanced commissioning included to assure savings persistence

Commercial Stretch Code Content Summary, cont.

Site Development and Land Use

- Mostly no incremental cost provisions regarding storm water, heat island, solar access, etc.

Materials

- No incremental cost best practice measures for handling materials
- Provisions for local materials and recycled/recyclable content

Water Conservation

- Best practice limits on irrigation
- Low flow fixtures
- Non-potable water usage/re-usage

Commercial Stretch Code Content Summary, cont.

Indoor Environmental Quality and Comfort

- Prohibited noxious materials (Asbestos, Urea-formaldehyde foam ins.)
- Low VOC adhesives, sealants, paints and coatings
- Daylighting – coordinated with energy efficiency provisions

Commissioning, Operations, and Maintenance

- Third-party commissioning of building systems
- O&M instructions/manuals for owners
- Maintenance plans

Existing Buildings

- Alterations and change of occupancy provisions

Electives

- Final decision to be made on number of required electives, from a possible total of 8, for compliance

Process for finalizing commercial stretch code

- Complete final staff and stakeholder review
- Complete final content edits
- Public hearing > adjustments as needed
- Distribute final draft to stakeholders and EERMC
- Format document for electronic (pdf) publishing
- Prepare for final publishing concurrent with new base code adoption schedule

Residential Stretch Code Status

- Stakeholder group convened
- Model code – 13 model codes/standards researched
- Summary of model codes distributed to stakeholders
- Receiving assistance from NEEP in identifying and assessing models
- Working with NYSERDA to obtain NY draft stretch code
- Researching proposed next version of residential base codes

Timeline Commercial

RI Commercial Stretch Code Development Activity	2016					2017
	August	Sept	Oct	Nov	Dec	July
Monthly meetings of stakeholders	17th	21st	19th	16th	21st	
Stretch Code Program Assistance Project						
- Research Model Codes						
- Engage Stakeholders – Review Model Codes						
- Review and Catalog Provisions						
- Assess Practical Implementation of Provisions						
- Perform Comparative Analysis						
- Recommend Compliance Paths						
Complete a draft commercial building stretch code and identify a funding source for future stretch code updates					by Dec. 31	
Formally adopt the commercial stretch code and complete a draft residential building stretch code						by July 1

Timeline Residential

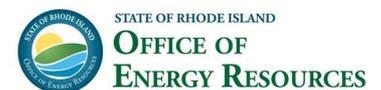
RI Residential Stretch Code Development	2017						
Activity	Feb	March	April	May	June	July	Aug >
Research Model Codes							
Engage Stakeholders – Review Model Codes							
Perform Comparative Analysis							
Select Model and Options							
Recommend Compliance Paths							
Complete and review draft residential stretch code							
Complete final draft							

- **Adoption by December 2017**

Questions & Discussion



Brian McCowan bmccowan@ers-inc.com 978-521-2550



Energy Efficiency Program Plan and Stretch Codes

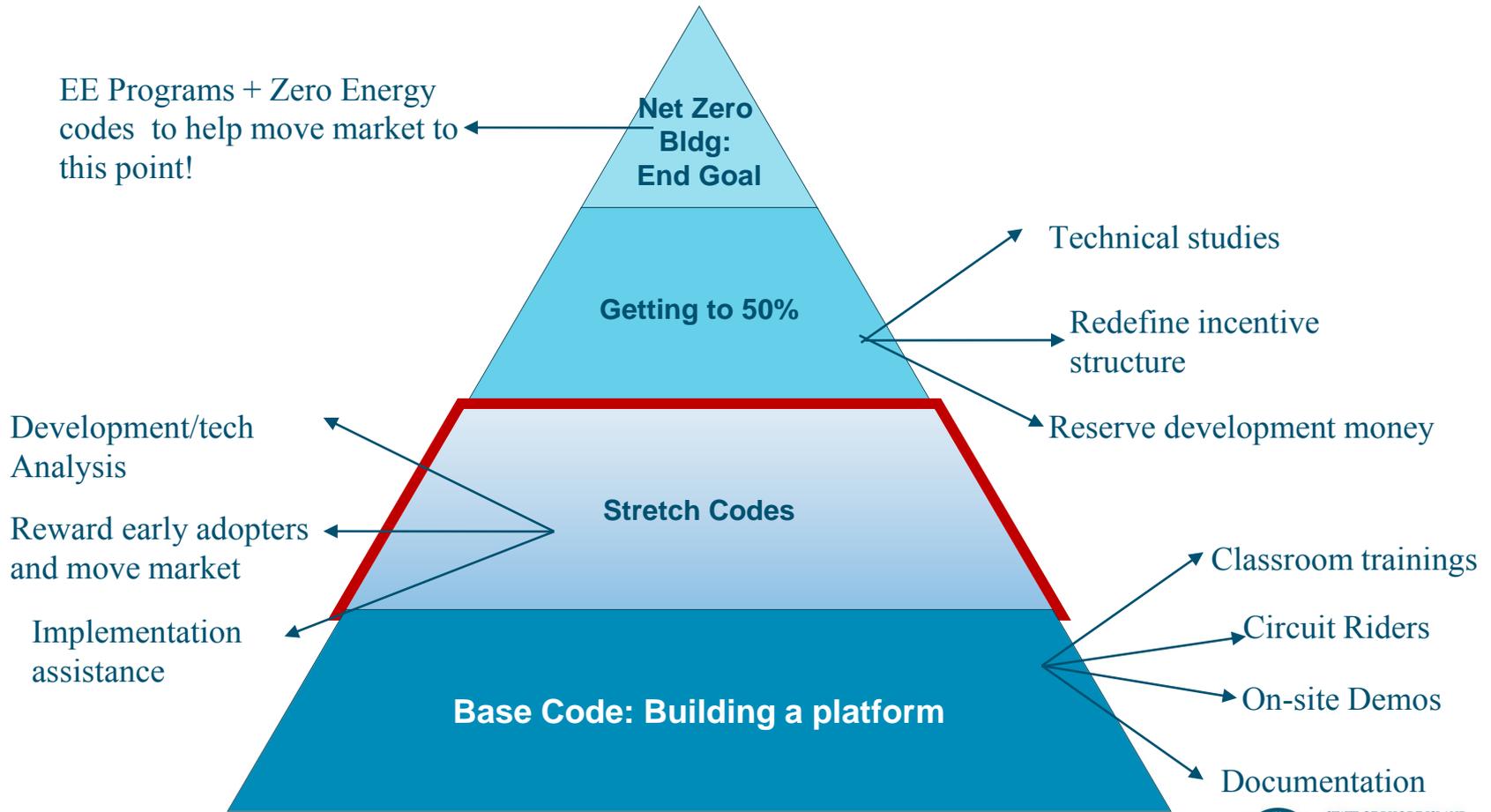
Tom Coughlin
Manager, Technical Policy
National Grid



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National Grid EE Programs: Role in the Codes Pyramid



EE Program Support for Stretch Code

- **Technical expertise in development of stretch code**
- **Existing “code compliance initiative” to add a ‘stretch code’ compliance pathway in our trainings and technical support**
- **New Construction (above code) incentive programs to support portion of ‘incremental’ costs of stretch code and additional tech support**
- **Evaluation program can support a ‘process and impact’ evaluation study of the stretch code once its available.**



9 Facts

About Clean Energy in Rhode Island

Achieving 1,000 MW of Clean Energy by 2020

14,000

Number of clean energy jobs supported in Rhode Island

Fact 1: Rhode Island has 138 MW of clean energy today

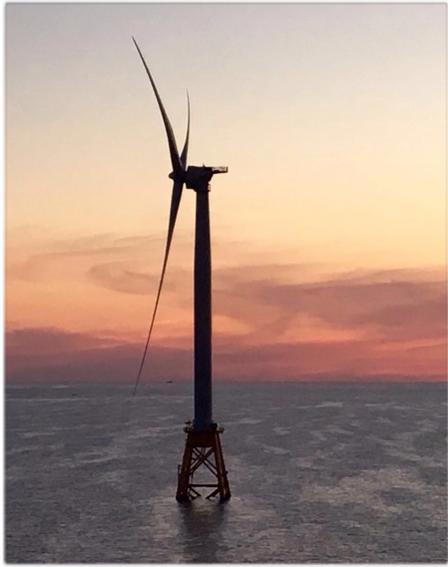
At the end of 2016, there were approximately 138 MW of operational renewable energy projects. The road to 1,000 MW of clean energy is an ambitious, but achievable goal.

Fact 2: Clean energy supports jobs and economic growth

There are 14,000 clean energy jobs in Rhode Island and the goal to pursue 1,000 MW will continue our upward trend of economic growth in this sector.

Fact 3: Clean energy is affordable

The levelized cost of wind and solar technology has never been lower and it is now on par with or cheaper than some conventional sources, such as natural gas. Combine this with the federal tax credits and other available programs, it is an ideal time to seek affordable clean energy.



30 MW

Clean energy capacity added to Rhode Island from the Block Island Wind Farm project

Fact 4: Clean energy is diverse

Clean energy includes hydropower, wind, solar and other no-to-low carbon emissions technology. There is a clean energy solution for nearly everyone. By diversifying our energy sources, and not relying on one resource for all our needs, we increase the reliability of our entire system.

Fact 5: Rhode Island has multiple programs to help us reach our goal

The Renewable Energy Growth Program, Renewable Energy Fund, Net Metering, Virtual Net Metering and the Long-Term Contract Standard for Renewable Energy will all help in achieving our in-state clean energy objectives.

Fact 6: Clean energy is accessible to more people than ever before

People who rent or do not have a suitable home for solar panels can still participate in clean energy via community solar projects and virtual net-metering.

Fact 7: Government is leading by example

All over the state, agencies, cities and towns are taking the initiative to increase their energy efficiency and adopting renewable energy technologies such as solar panels, solar powered lights or electric vehicle charging stations.

Fact 8: Clean energy is a regional strategy

While we continue to promote the adoption of more clean energy here at home, a significant portion may come from out-of-state sources.

Fact 9: Clean energy requires everyone

No one agency or government can do it all. We need everyone — residents, homeowner, non-profits, businesses, cities and towns — to participate and make smart clean energy investments.

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