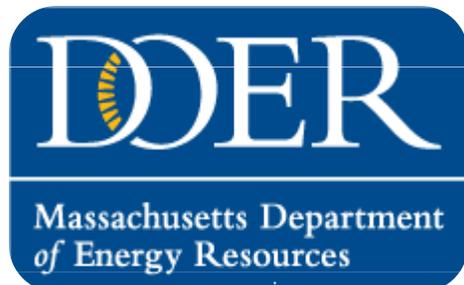


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# **Helping Communities Prepare for Climate Change**

**Community Clean Energy Resiliency Initiative**

**Amy McGuire  
May 22, 2014**

# Mother's Day Storm 2006



# Ice Storm 2008



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Massachusetts Department  
of Energy Resources

# Western and Central Mass Tornadoes 2011



ER

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# Route 2, Hurricane Irene 2011



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# Plum Island Winter 2013



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# What it Costs



Severe weather is the leading cause of U.S. power outages

- \$18-33 billion per year = est. economic costs (2003-12)
- 7 of 10 costliest storms in U.S. history between 2004-2012

## Northeast

- \$65 billion estimated for Superstorm Sandy (2012)
- 2.3 million people evacuated prior to Hurricane Irene (2011)
- >6.5 million lost power during Irene: 30% of RI, CT, MD

**DDER**

Massachusetts Department  
of Energy Resources

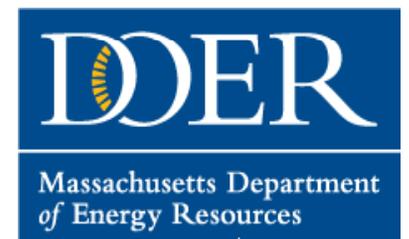
# Climate Preparedness – Top EEA Priority

“We need to do more to address the extreme threats from climate change...We must properly assess the risks and vulnerabilities, plan for them and ensure our emergency services have the ability to keep our residents safe. And we must take action to protect our natural habitats to maintain healthy communities.”

Governor Deval Patrick  
July 24<sup>th</sup>, 2013



(Photo: Eric Haynes/Governor's Office)



# Coordinated Climate Preparedness Initiatives

- **EEA with NEPGA** – Identifying resiliency efforts at generation facilities
- **DPU** – Grid modernization
- **CZM, \$10M** – Coastal infrastructure projects
- **DCR with MassDOT, \$2M** – Assessing transportation vulnerability
- **DOER with Governor’s Military Task Force** – Evaluating clean energy opportunities at military bases
- **DOER, \$40M** – Community Clean Energy Resiliency Initiative

# Community Clean Energy Resiliency Initiative

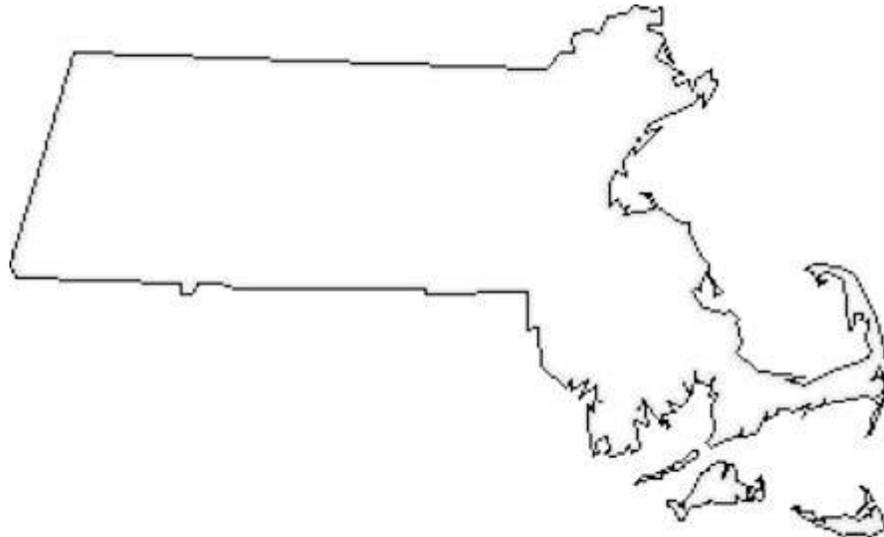
## The highlights:

- \$40 million municipal grant program
- Energy resiliency at critical facilities using clean energy technology
- All Massachusetts municipalities are eligible
- Applications available for Technical Assistance or Project Implementation

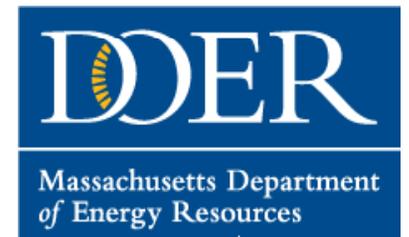
# Eligible Applicants

**All Massachusetts municipalities are eligible:**

- Single municipality
- Joint applications by multiple municipalities
- Regional Planning Agencies
- Regional districts (water, sewer, school, etc)
- Public/private partnerships



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# Eligible Critical Facilities

Critical facilities = *“buildings or structures where loss of electrical service would result in disruption of a critical public safety life sustaining function”*



**Critical facilities may include:**

1. Life safety resources
2. Lifeline resources
3. Community resources

# Eligible Clean Energy Technologies



- Clean energy generation
- Energy storage
- Energy management systems that enable load shedding used to isolate and serve critical loads during an event
- Technology used for DG operation in island mode
- Single building facilities or microgrids

# Sample Projects

1. Single facility, electrical: A municipal fire house
2. Single facility, thermal: School serving as community shelter during an emergency
3. Multiple facilities: Waste water treatment plant (WWTP) and a municipal police station
4. Microgrid: Health services and shelter microgrid project

# Good Role Models



**Midtown Community Elementary School –  
Bayonne, NJ**



## Cape Codder Resort and Spa – Hyannis, MA

# Application Types

## Technical Assistance (TA) Application

- Available at no cost to awarded applicants
- Expecting to offer between 40 and 80 awards
- Consulting team will provide these services
- Awarded applicants have the opportunity to use the resulting plan to apply for a follow-up round of project implementation funding.

# Application Types

## Project Implementation (PI) Applications

- Specific project threshold criteria
- Projects may be retrofit or new install
- Sited at:
  - A single facility,
  - at multiple isolated facilities or
  - among a network of connected facilities.

# Audience Question

Given your understanding of the program at this point, which type of application do you think you will submit?

- A. Technical Assistance Application
- B. Project Implementation Application



# Funding Guidelines

## The highlights:

- Fully utilize and account for other available resources
- Minimum 10% cost share
- Up to \$20 million in the first round
- Remaining \$20 million available in the second round to:
  - Follow-on round TA applicants (moving to PI Applications)
  - Un-funded first round PI Application projects

# Program Timeline – TA Application

DOER issues PON	May 15, 2014
DOER begins to review TA Applications (DOER will review on a rolling basis through final TA deadline)	June 16, 2014
Deadline for submitting TA Application questions	June 30, 2014
DOER begins TA Application awards	June 30, 2014
<b>FINAL TA APPLICATION DEADLINE</b>	<b>July 15, 2014</b>
Final TA Application awards announced (subject to change)	August 15, 2014
<b>FINAL ROUND 2 PI APPLICATION DEADLINE</b>	<b>October 15, 2014</b>
Final Round 2 PI Application awards announced (subject to change)	November 15, 2014

# Program Timeline – PI Application

DOER issues PON	May 15, 2014
Deadline for submitting PI Application questions	July 7, 2014
<b>FINAL ROUND 1 PI APPLICATION DEADLINE</b>	<b>July 15, 2014</b>
Round 1 PI Application awards announced (subject to change)	August 15, 2014
<b>FINAL ROUND 2 PI APPLICATION DEADLINE</b>	<b>October 15, 2014</b>
Final Round 2 PI A awards announced (subject to change)	November 15, 2014

# Evaluation Criteria



## The highlights:

- Proposal content
- Project commitment
- Proposal finances
- Proposal technical details

# Submission

- Incomplete applications will not be accepted.
- Submit via email to Amy McGuire at [Amy.McGuire@state.ma.us](mailto:Amy.McGuire@state.ma.us).
- This application information is available at: [www.commBuys.com](http://www.commBuys.com) as PON-ENE-2014-035 and PON-ENE-2014-036.

# Future Webinars

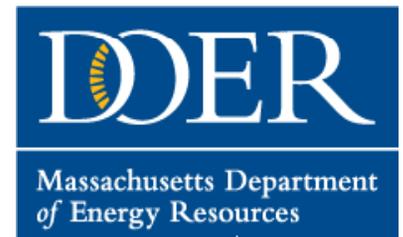
- Webinar 2
  - Technical Assistance Application Requirements and Technical Assistance Services
  - Tuesday, 5/27, 3pm
- Webinar 3
  - Project Implementation Application Requirements and Guidance
  - Wednesday, 5/28, 11am
- Register here: <http://www.mass.gov/eea/energy-utilities-clean-tech/webinar-future-and-archive.html>



PHOTO: SCOTT OLSON/GETTY IMAGES



Questions?



# Thank you

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<http://www.mass.gov/eea/energy-utilities-clean-tech/renewable-energy/resiliency-initiative.html>