

# Public Facilities Resilience

## Connecticut Department of Energy and Environmental Protection



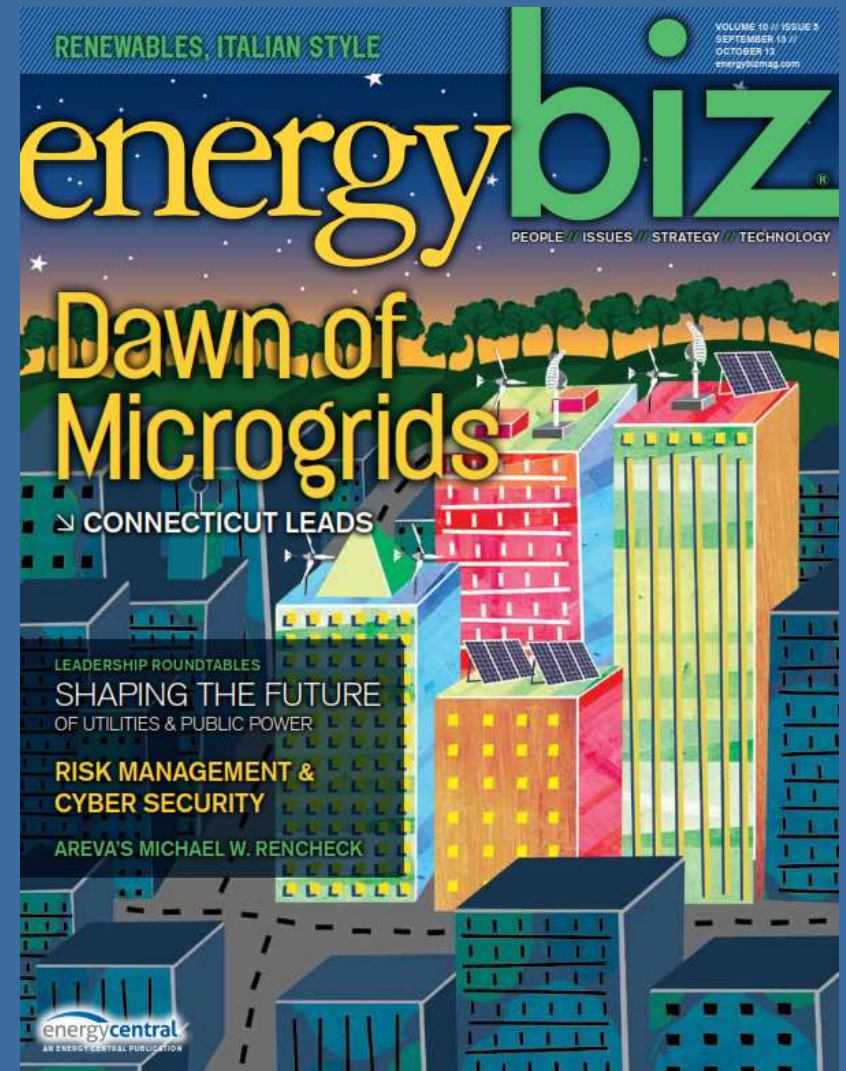
# Connecticut's Microgrid Program

- Program is critical piece of larger resiliency strategy in the wake of severe storms
- Program provides enhanced safety and quality of life for residents in an outage situation
- Program fits in with Governor's larger vision for cheaper, cleaner, and more reliable energy future for Connecticut
- In line with "portfolio approach" that encourages deployment of distributed generation



# Focus on Increasing Public Facility Resilience

- Severe weather events becoming new normal
- Threats facing the state become more multi-dimensional (weather, terrorism, cyber-attacks, etc.)
- Microgrids are a way to allow critical facilities to function even when all else fails



# Vision for Microgrids in Connecticut

- Microgrids will provide critical services to residents
  - Generating electricity with cleaner, 24/7 operational power sources
    - Natural gas turbines with combined heat and power, fuel cells, solar panels, etc.
  - Engineered to “island” from the grid when the larger grid is de-energized
  - Built in a cost-effective manner
  - Improves safety and quality of life by islanding critical facilities



# Connecticut Microgrid Program Milestones

**Coming Soon in 2017** Grants to Include funding for generation

**November 2015** Issue Round 3 grant awards for microgrid projects including funding for generation

**August 2015** Town of Fairfield Microgrid Operational

**October 2014** Issued 2 grant awards for microgrid projects totaling \$5 million

**June 2015** Town of Fairfield Microgrid Operational

**July 2013** Issued 9 grant awards for microgrid projects totaling \$19 million

**March 2014** Wesleyan University Microgrid Operational



# Evaluating Resiliency Opportunities for Public Facilities

1

What is the role for state energy offices?

2

How should technology options be assessed for public facilities?

3

What are “critical facilities” and how are programs defining them?

4

What policy approaches are needed to successfully integrate distributed generation?

