

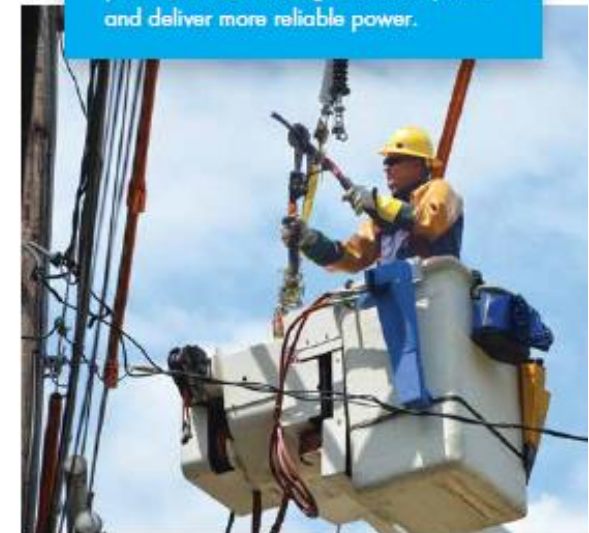
Eversource - Building a More Resilient Grid for Our Customers

More Reliable Power,
Every Day



More than 90% of outages during storms are caused by falling trees and tree limbs.

Beyond our everyday efforts, we're making an investment in our future and yours, to build a stronger electric system and deliver more reliable power.



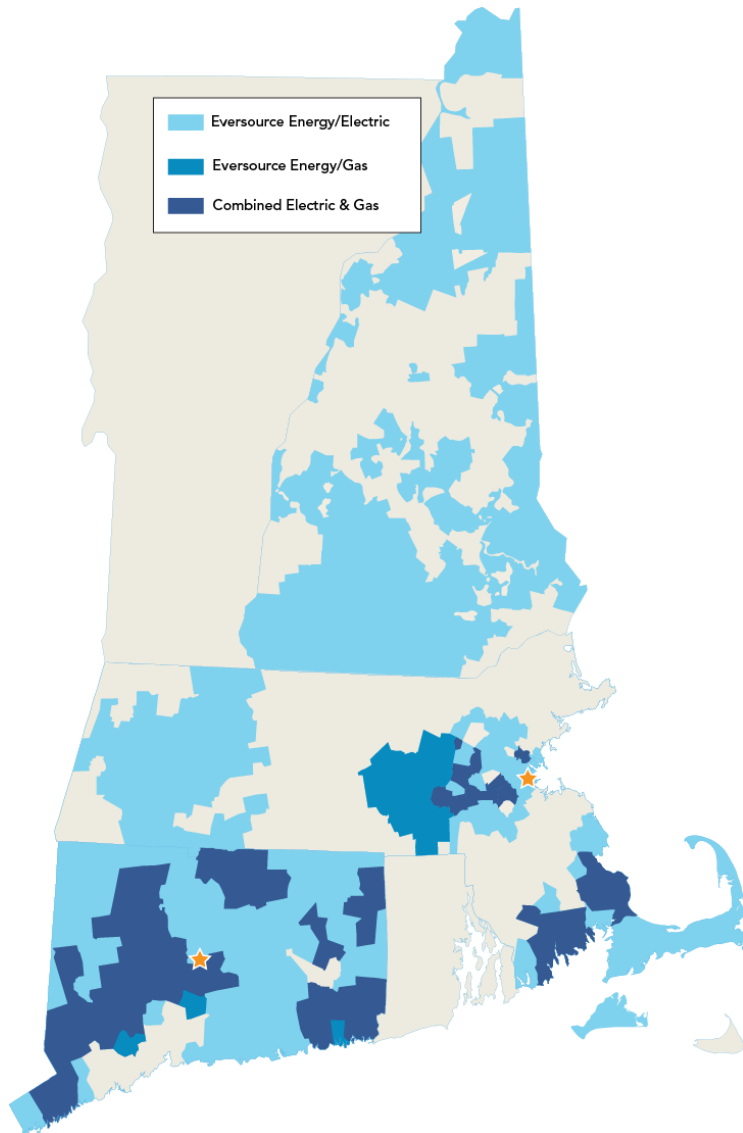
A Better City Panel Event: Protecting Critical Infrastructure
Boston MA, November 6, 2015

- About Eversource
- Our Reliability Performance
- Strategies for Climate-Resilient Infrastructure
- New Eversource Energy Center
- Groundbreaking Substation Design
- MA Grid Modernization
- Greater Boston Solution Projects



Eversource Named Top Green Utility by Newsweek
Eversource Energy has been named the highest-ranked utility on the *Newsweek* [list of the 500 top 'green' companies](#) in the United States.

About Eversource



Eversource is New England’s largest energy delivery company, safely and reliably delivering energy to more than 3.6 million electric and natural gas customers in Connecticut, Massachusetts and New Hampshire.

- 4,270 miles of electric transmission lines
- 72,000 miles of electric distribution lines
- 6,500 miles of natural gas distribution lines
- 578 electric substations

Connecticut: 1.2 million electric customers
220,000 natural gas customers

Massachusetts: 1.4 million electric customers
283,000 natural gas customers

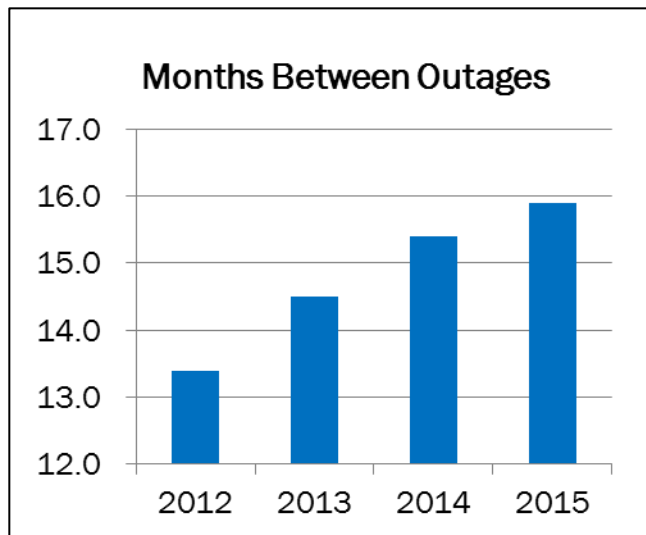
New Hampshire: 510,000 electric customers

Headquarters: Boston, Hartford

Our Reliability Performance

We are on a quest to become a stronger advocate for our customers and to significantly improve satisfaction among our customers

Reliability at Record Levels



- For 2015, our overall system reliability is the best ever
- Each year, we upgrade and strengthen our infrastructure across the region to reduce the possibility of service interruptions, especially during summer's peak demand and severe weather
- We focus on increasing the capability and dependability of our systems
- Each year, we establish challenging targets, and track specific monthly operating performance measures.

Strategies for Climate-Resilient Energy Infrastructure

- Improving operations to manage changing load conditions and increase reliability and resilience
- Increasing resilience of energy infrastructure (transmission and distribution) to storms, floods, and sea level rise, including “hardening” of new and existing facilities and deploying advanced technology (e.g., remote monitoring, switching, sensors)
- Improving our own Emergency Preparedness for major storm events
- Teaming with federal, state and local regulators and other key stakeholders to ensure that our electrical system keeps pace -- deploying the most appropriate adaptation approaches
- Building on our existing communication and education programs to improve dissemination of information regarding risks, vulnerabilities and opportunities to build climate-resilient energy systems

New Eversource Energy Center

University – Energy Company Partnership

- Directly fund research and cutting-edge technologies
- Expand our current work with UConn on storm modeling, damage forecasting, and solutions to manage and reduce the risks and effects of extreme weather events
- Create a combination of UConn’s science and research with Eversource field operations and engineering expertise to develop new technologies
- Expand our university partnership model under MA Grid Modernization Plan

INNOVATIVE

PROGRESSIVE

PROACTIVE

A unique university– energy company partnership

Promoting research excellence and leading the industry to develop new technologies and science-based solutions for delivering reliable power and advanced risk management in extreme weather

Advancing the next generation of storm damage modeling to shorten outages

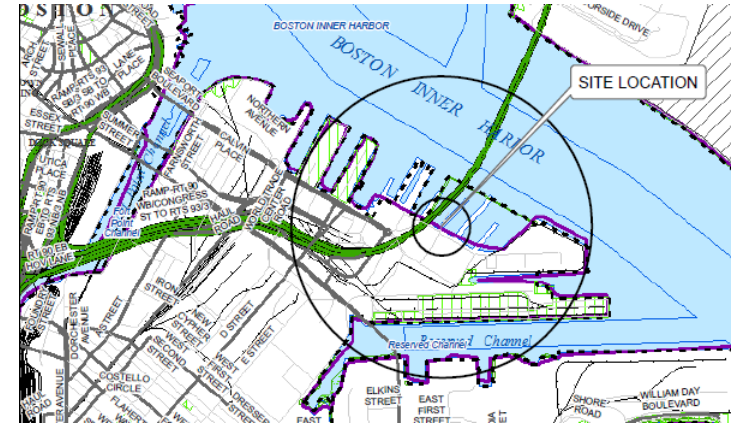
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Applying best practices for sustainable and storm-resistant forest design

.....
Implementing electric grid operating efficiency and storm resiliency improvements

Groundbreaking Substation Design

South Boston – Station 99, Seafood Way

- Constructing underground distribution and transmission line segments, connecting the new substation to existing infrastructure
- Elevated equipment platform 16 feet above the 500 year flood event
- Underground infiltration basin & underground detention system sized for 100 year storm
- Climate Change Preparedness & Resilience Checklist (Art. 80)
- Facility Management Response Plan includes Flood Response Plan
- Eco-screen metal façade approved by Boston Redevelopment Authority



Grid Modernization

Characteristics of a Modern Grid

Smart & Integrated Grid

Grid Wide Situational Awareness	Advanced Analytics	Real Time Flexible Grid Action	Dynamic DER Integration
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Resilient Grid

Customer Engagement

Enabling Investments

CUSTOMER EDUCATION

COMMUNICATIONS

CYBERSECURITY

Short-Term Plan Investments

- | | | | | | |
|--|---|---|--|---|---|
| <ul style="list-style-type: none"> Advanced Sensing Technology Next Generation Remote Fault Indication | <ul style="list-style-type: none"> Distribution Management System Advanced Load Flow Predictive Outage Detection | <ul style="list-style-type: none"> Automated Feeder Reconfiguration Volt VAR Optimization | <ul style="list-style-type: none"> Integrated Tracking and Planning for DER Energy Storage Adaptive Protection / Two Way Power Flow | <ul style="list-style-type: none"> Pole Replacement for Storm Performance Manhole Reinforcement Enhanced Tree Trimming Maintenance | <ul style="list-style-type: none"> TVR |
|--|---|---|--|---|---|

Desired Outcomes

Reduce the Impact of Outages

Optimize Demand

Integrate Distributed Energy Resources

Improve Management of Our Workforce and Assets

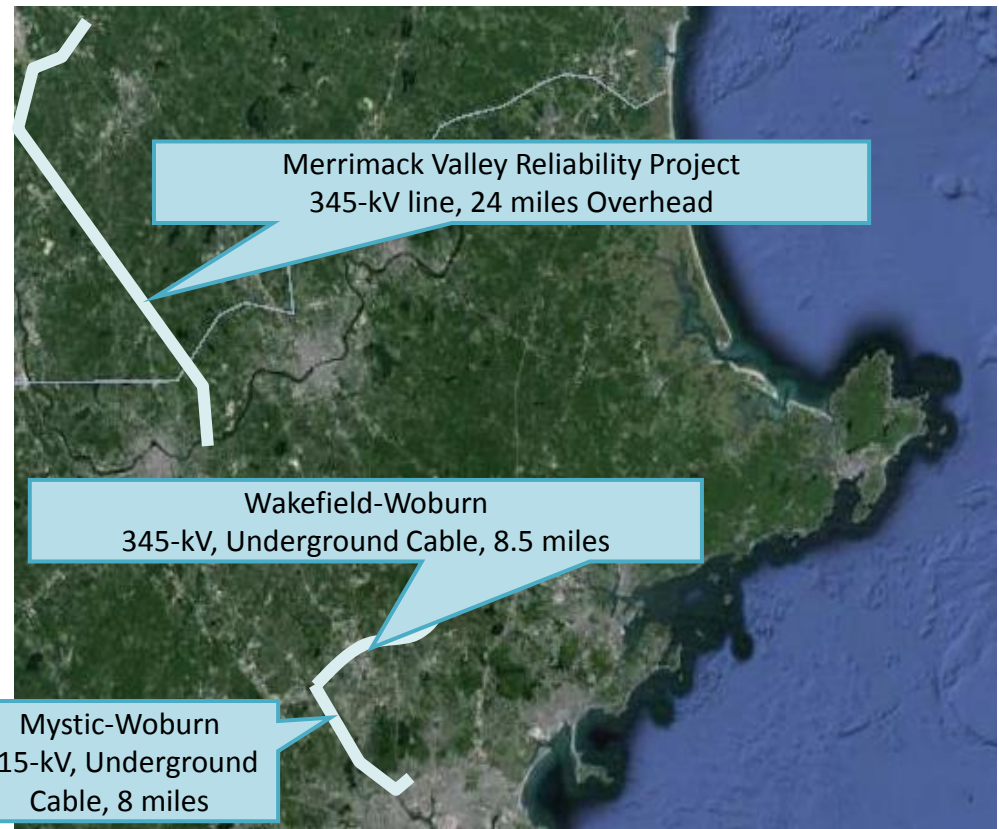
Greater Boston Solution Projects

Redundancy and Resiliency / Lower Cost of Energy

- Eversource and National Grid will implement a suite of projects in Greater Boston and southern New Hampshire to improve reliability
- 40+ projects, 3 states, 3 utilities, >40 towns/cities, Eversource Investment of ~\$544 Million

BENEFITS:

- Improves system reliability for the entire Greater Boston region
- Significant savings by protecting customers from high capacity market costs
- Invests over \$740 million in local and regional infrastructure improvements
- Creates jobs in Massachusetts and New Hampshire during peak construction
- Generates substantial local property tax revenues in core communities
- Supports the region's economic health and demand for electricity for years to come



Visit our GBS webpage: <http://www.ma-nhsolution.com/>

Thank you

For more information, visit our sustainability webpage: https://www.eversource.com/responsible_energy/