

Solving the Transmission Challenge for Decarbonization

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Eversource: New England's Largest Utility and a Catalyst for Clean Energy

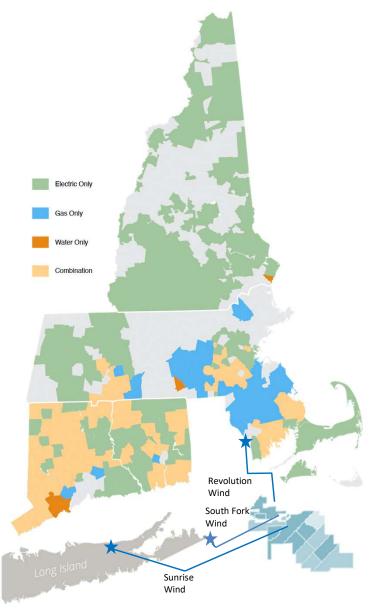
- Provides electric, gas, and water services
- 4.3 million customers
- 9,100 employees
- Operates 49% of New England's transmission system
- Carbon Neutral by 2030

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 Partnership with Ørsted to provide ~1700 MW of offshore wind power to New England and New York



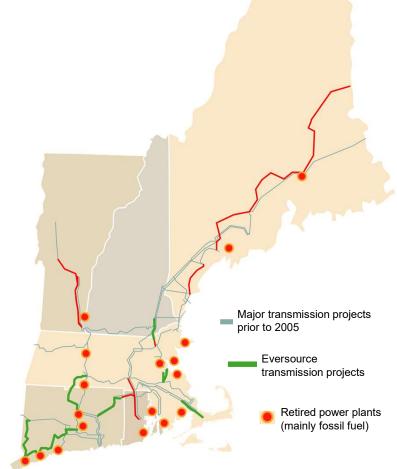
South Fork Wind construction on Beach Lane in East Hampton, NY



A History of Solving Grid "Bottlenecks" & Improving Reliability

2005-2020:

- 8 major transmission programs
- \$11B investment
- \$600M in annual customer savings
- Over 6,000 MW of baseload generation retired since 2000
- 36% reduction in CO₂ emissions





An Integrated Approach to Providing Reliable, Cost-Effective Solutions

Greater Boston Suite

- 34 Eversource projects
- \$1B total investment

Eversource substation project

Eversource line project

National Grid, Central Maine Power or Hudson Light & Power Line project

Existing 345-kV transmission system

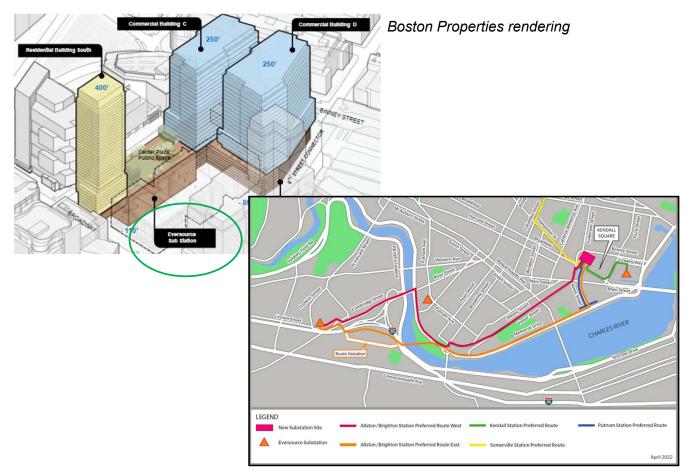
Boston Area Optimized Solution

- \$49M total investment by Eversource and National Grid
- Enables the retirement of Mystic Generating Station, a 2,000 MW fossil-fuel resource
- Eversource portion completed on budget and ahead of schedule
- First competitively awarded reliability project chosen by ISO-NE

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Facilitating Clean Energy in Greater Cambridge with a Unique Solution

- Eversource's first underground substation and one of the largest in the U.S.
- Preserves green space for community use at ground level between Boston Properties buildings
- Improves reliability and supports anticipated increased demand from electrification
- Conducting extensive
 proactive community
 outreach with a focus on
 environmental justice



Preferred transmission line routes



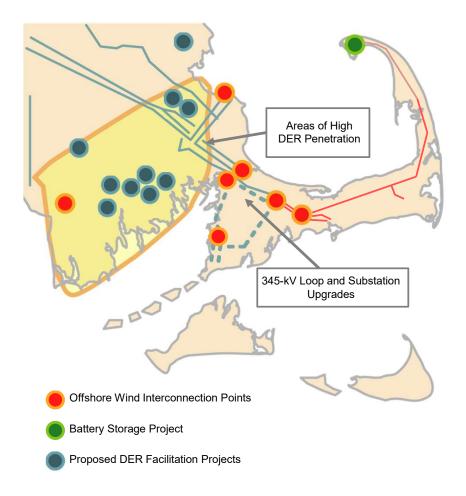
Successful Transmission Solutions Will Combine Grid Reliability, Resiliency, and Clean Energy

Co-optimized transmission solutions to address both reliability needs and interconnect offshore wind

Energy storage solution to provide essential back-up power for resiliency

Proactively planning for clusters

of distributed generation and integrating with local transmission projects





Achieving the Grid of the Future in New England is Possible, but Brings Challenges



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- Traditional planning processes only consider "firm" new generation and retirements
 - How do we agree on the resources to plan for? Who decides?
- Traditional cost allocation rules will assign most of these costs to generators
 - How do we broaden cost allocation while navigating different state policy choices?
- Co-optimization will be essential for success
 - How can we cost effectively prepare the grid now for future clean energy and electrification demands as we make upgrades for resiliency and reliability?