



Somerville City Council Update

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Agenda

- \circ Introductions
- Massachusetts' Clean Energy Goals
- Electric Sector Modernization Plan (ESMP)
- Demand Growth
- Projects Underway and Planned
- Outreach and Stakeholder Engagement
- o Q&A





Massachusetts' Clean Energy Goals

MA LAW REQUIRES REDUCING GREENHOUSE GAS EMISSIONS



Clean Energy and Climate Plan for 2050

Massachusett

Clean Energy an Climate Plan foi 2025 and 2030





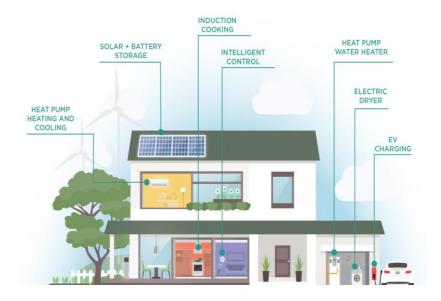
2022 Climate Bill requires each Electric Distribution Company develop an **Electric-Sector Modernization Plan (ESMP)** to proactively upgrade the distribution and, where applicable, transmission systems to meet the Commonwealth's climate goals

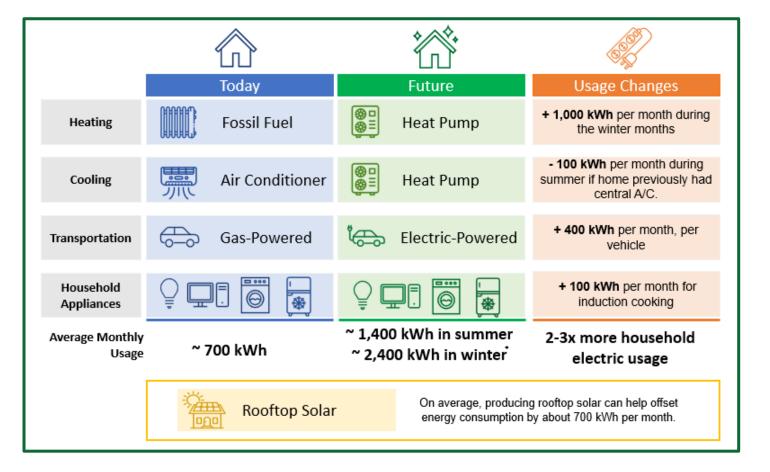
NET ZERO EMISSIONS

by

2050

Home of the Clean Energy Future





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Solving for Increased Electric Demand

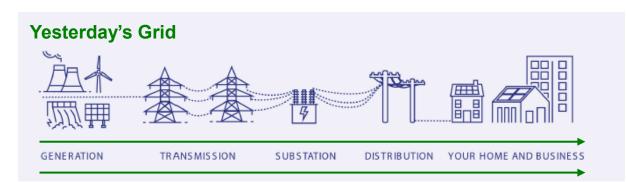
WHERE WE ARE

Infrastructure Needed

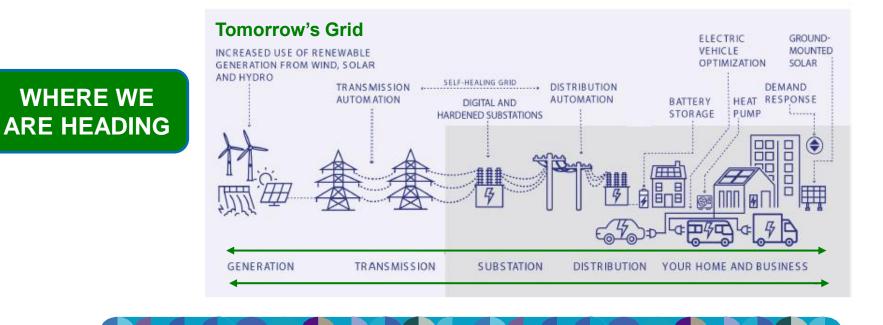
Requires an electric network buildout and upgrades at an unprecedented pace and scale, in collaboration with customers, communities, policymakers, and other stakeholders.

Meaningful Engagement

Those potentially impacted by this transition deserve to play a role in energy discussions that affect their lives





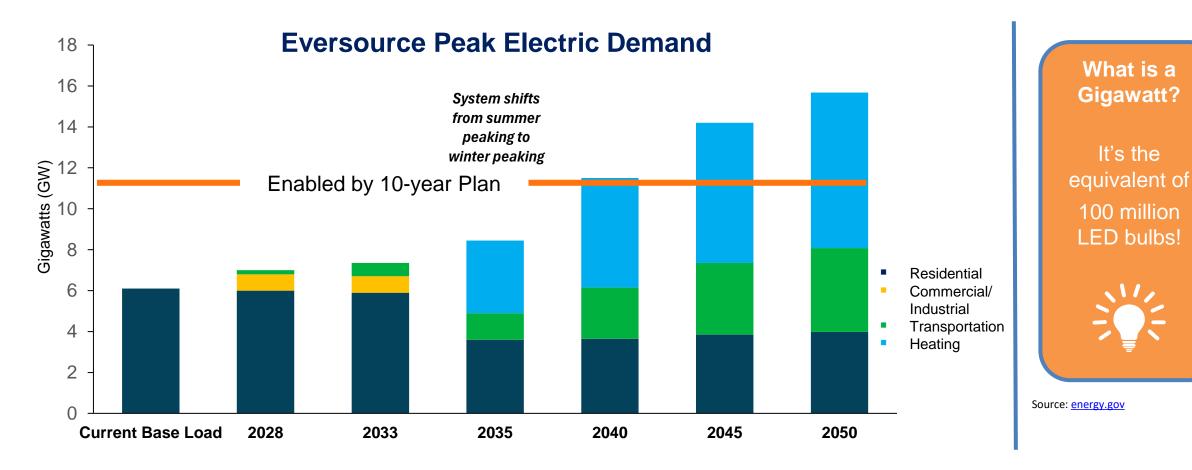


Key Drivers of the Net-Zero Goals



Electric vehicle adoption projected to add 1.3 GW of winter demand by 2035

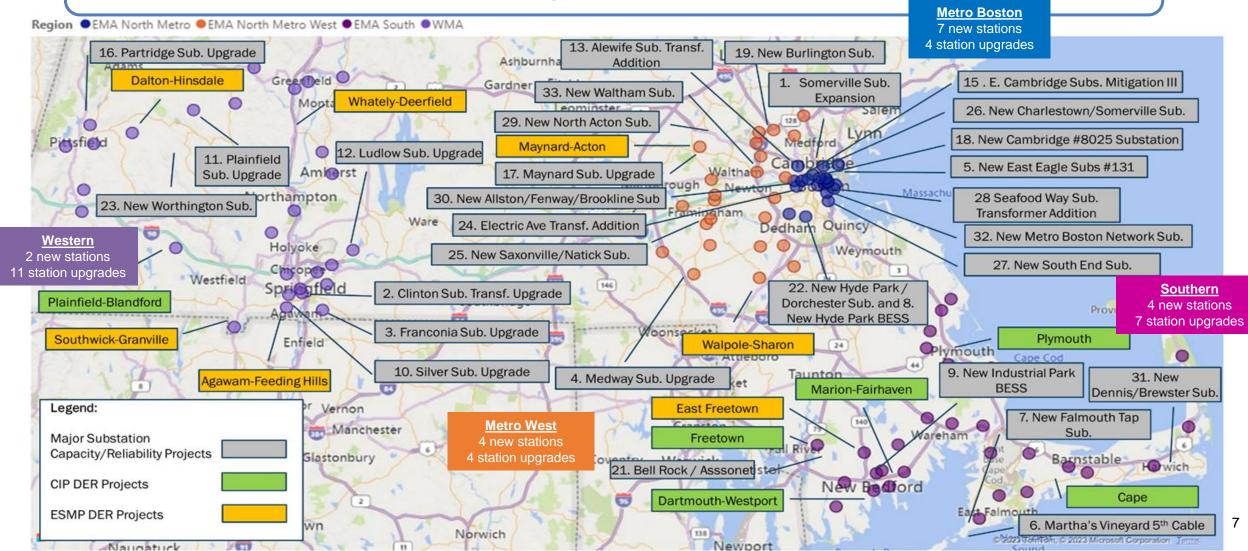
Zero-carbon heating projected to add 3.5 GW of winter demand by 2035



Location of Major Capital Projects in the 10-Year Plan

Investments in 17 new clean energy hubs and upgrades to 26 over the next ten years will enable the clean energy future in Massachusetts

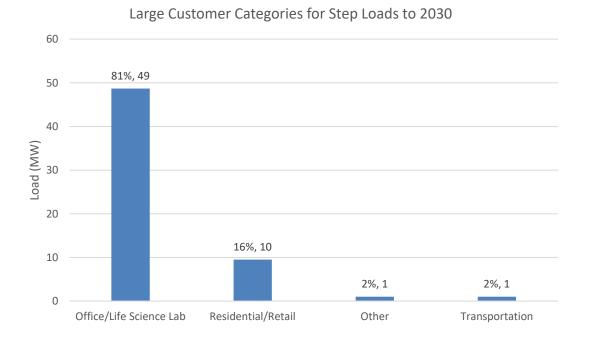
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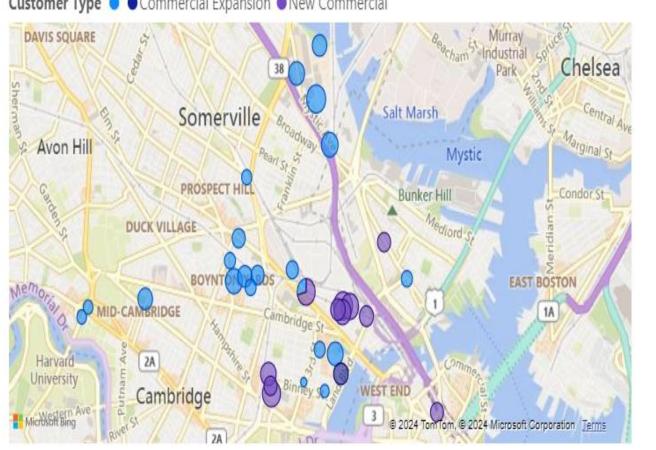




What's driving the near-term demand growth in Somerville?

- The Company is closely monitoring development in Somerville
- New Office blocks and life science building development at Assembly, Boynton Yards, and Union Square make up 81% of 60MW of new load in Somerville city proper





Customer Type • Commercial Expansion • New Commercial

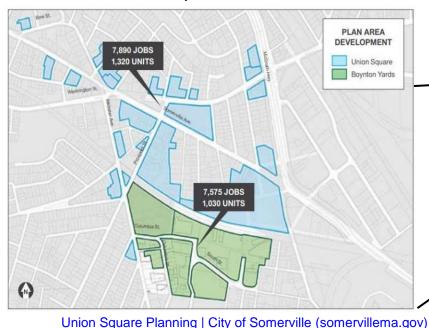


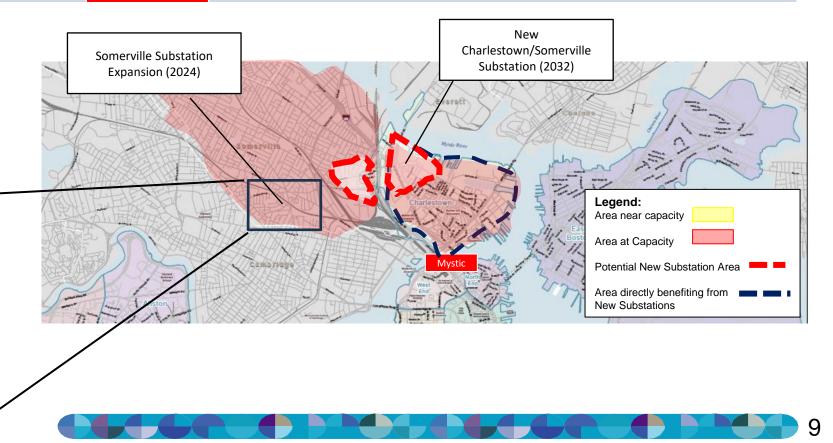
10 Year Capacity Deficiencies in The City of Somerville translate to negative reliability outcomes if not immediately addressed

Substation Name	Boston Communities Served	2030 Substation Loading %	Ten-Year Project Solution And Need Date
Mystic	Charlestown, City of Somerville	99	 2022. Somerville Substation Expansion (Delayed as of September 2024) 2032. New Charlestown/Somerville Substation

City of Somerville

 New Charlestown/Somerville Substation provides long-term capacity relief for neighborhood of Charlestown and City of Somerville





Electric System Projects Currently Underway and Planned for Somerville

Prospect Street Substation #402 (Somerville) and Distribution Work (Somerville & Cambridge)

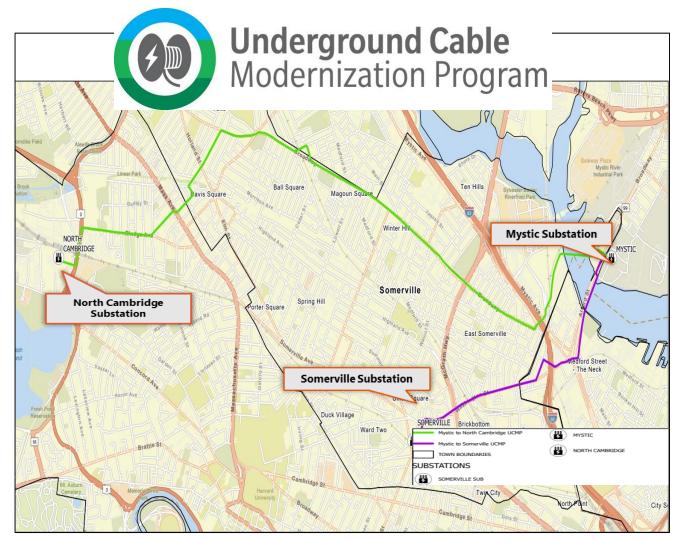
Underway – Construction ongoing for addition of a third transformer at the existing Prospect Street Substation in Somerville. This project also includes about 2.5 miles of new distribution duct bank, including portions in Somerville and Cambridge.

Greater Cambridge Energy Program, Substation #8025

Underway - Executive Facilities Siting Board approval of new underground substation, five underground transmission routes through city streets to existing substations in Boston, Cambridge, and Somerville.

New Projects in Planning Phase

- Planning Underground Cable Modernization Program (UCMP) aims to replace high pressure fluid filled (HPFF) cable with new duct bank and cross-linked polyethylene (XLPE) cable between Mystic and Prospect Street substation and Mystic to North Cambridge substation.
- Planning Fence and Control House Upgrades



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