

Energy Facilities Siting Board Public Comment Hearing

November 10, 2022, 6:00 PM

Virtual via Zoom

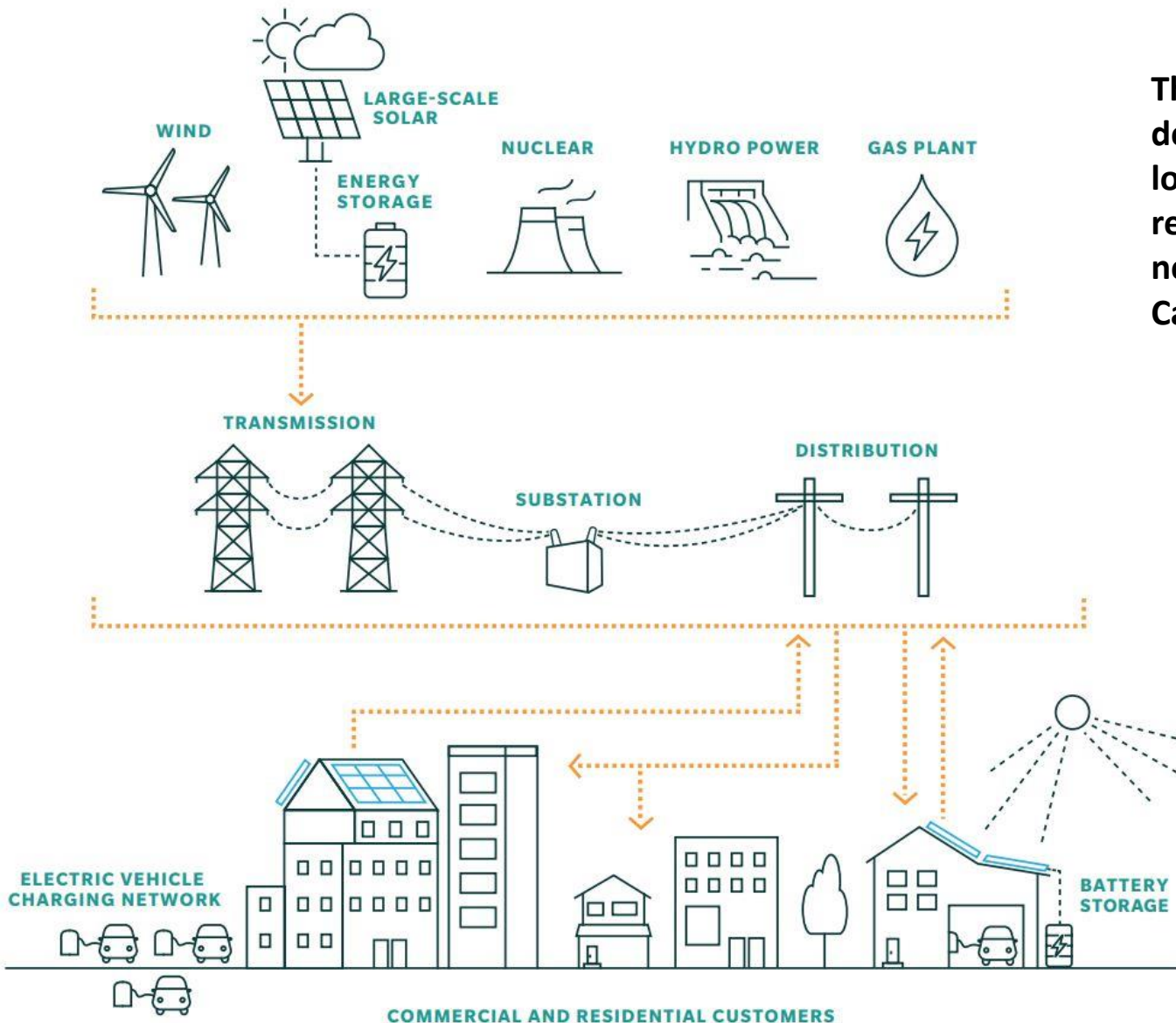
Overview of Greater Cambridge Energy Program

Tonight's focus: a third alternative for the Kendall Square to Union Square transmission line route

Next Steps and Q&A

The Greater Cambridge Energy Program

Purpose and need



The proposed program is designed to be an integrated, long-term solution to address reliability and electric growth needs in the greater Cambridge area.

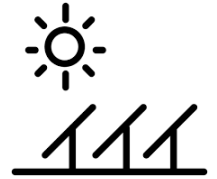
- Provides additional electric supply to meet growing needs
- Strengthens the transmission system serving the region
- Ensures a flexible electric grid

Other Alternatives Considered

Solar and energy storage have limitations

Solar

- Not feasible due to size and duration of charge necessary to meet needs
- Duration of need far exceeds solar availability
- Widespread system upgrades still needed for integration



Energy Storage

- Not feasible due to scale and lack of capacity for charging
- Very large land requirements to add generation for recharging



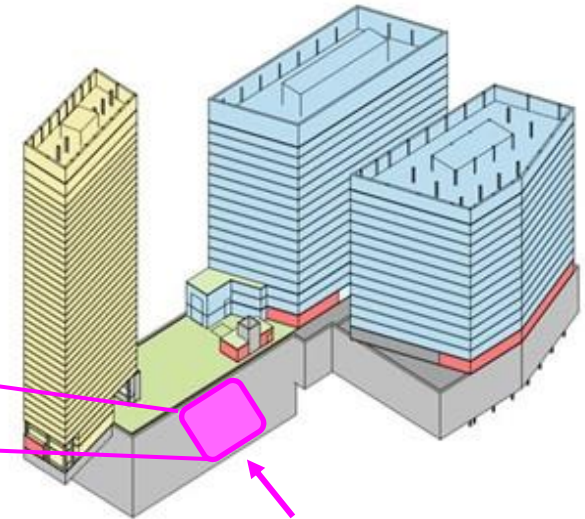
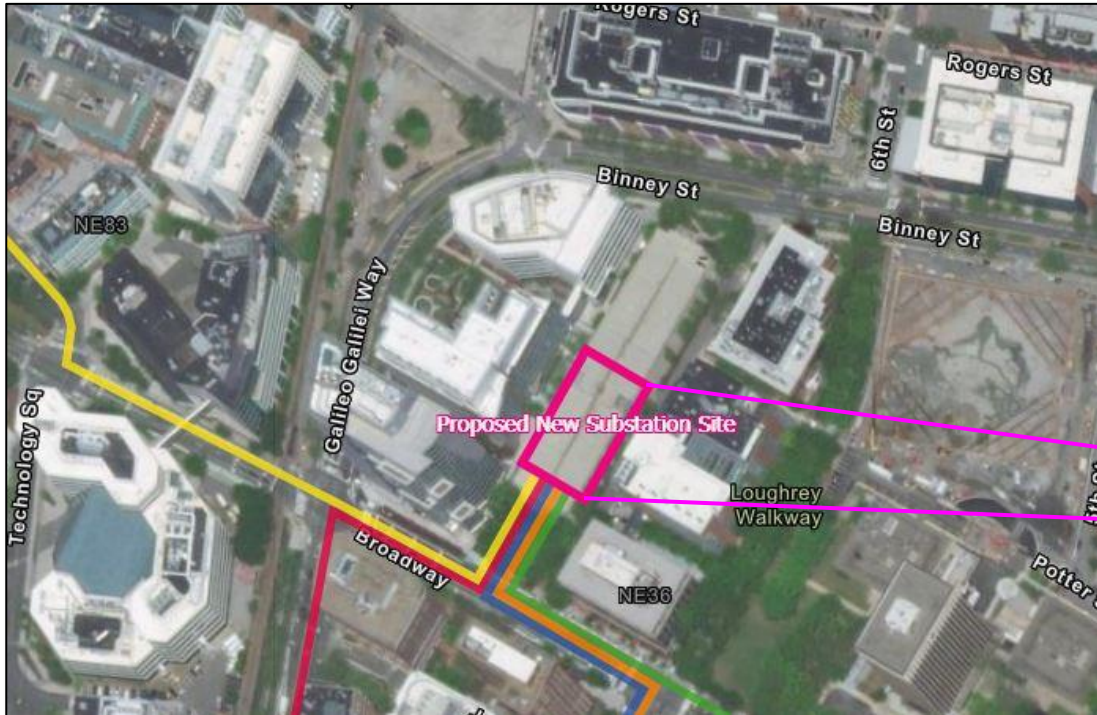
Gas/Emergency Generation

- Not feasible due to size needed and increased fossil emissions
- Still requires system upgrades



Program Overview

New substation, new lines interconnecting to the electric grid



Location of Proposed Station
under new BP development

New Underground Substation in Kendall Square

- Integrated into Boston Properties redevelopment plans
- Public open space above substation between residential and commercial buildings

New underground transmission lines

- Five new duct banks housing eight new 115-kilovolt ("kV") underground transmission lines

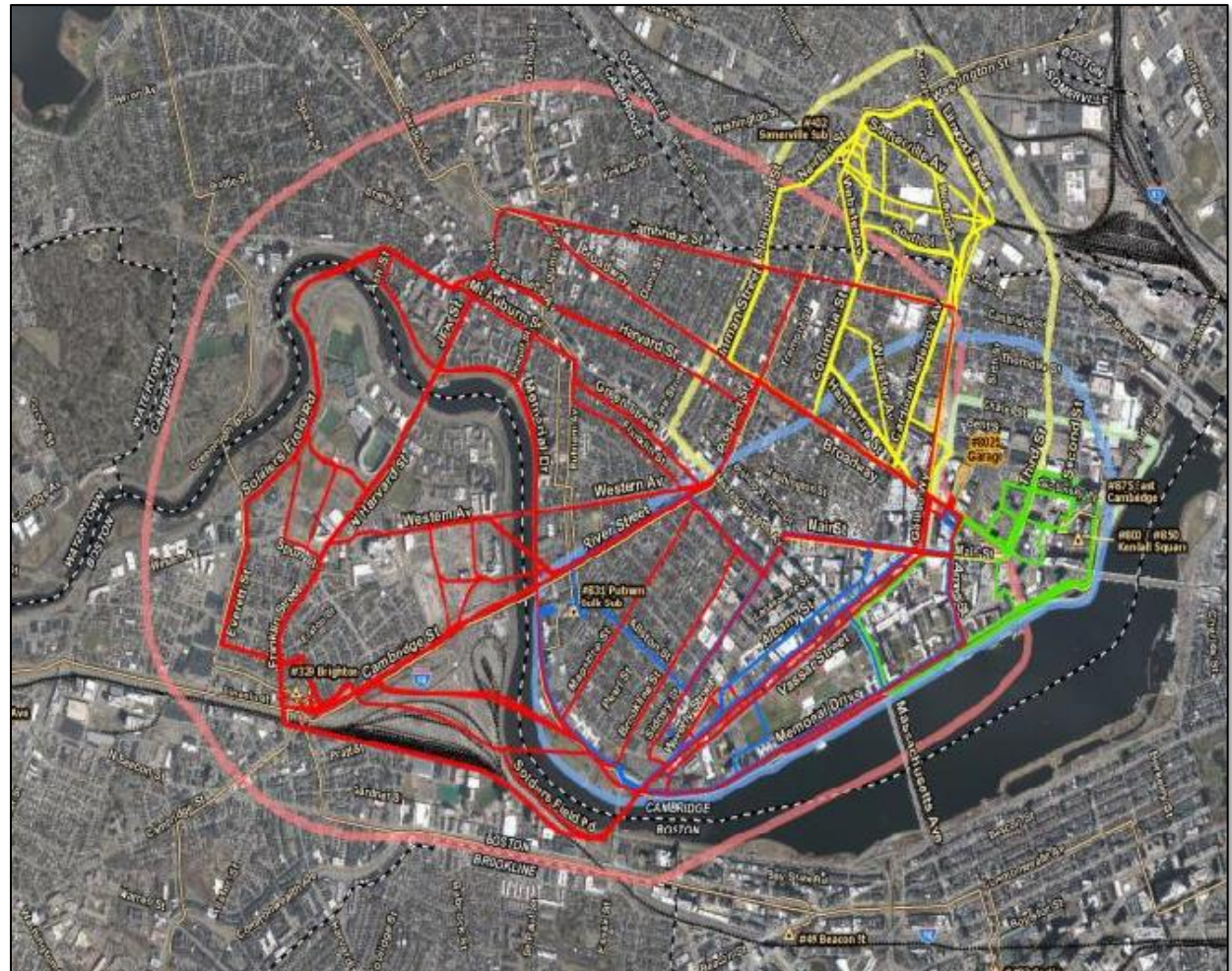
Siting Route Selection – Universe of Routes

Extensive review, stakeholder feedback, iterative approach

Initial “Universe of Routes” established mid-2020

We look at multiple factors in considering routes

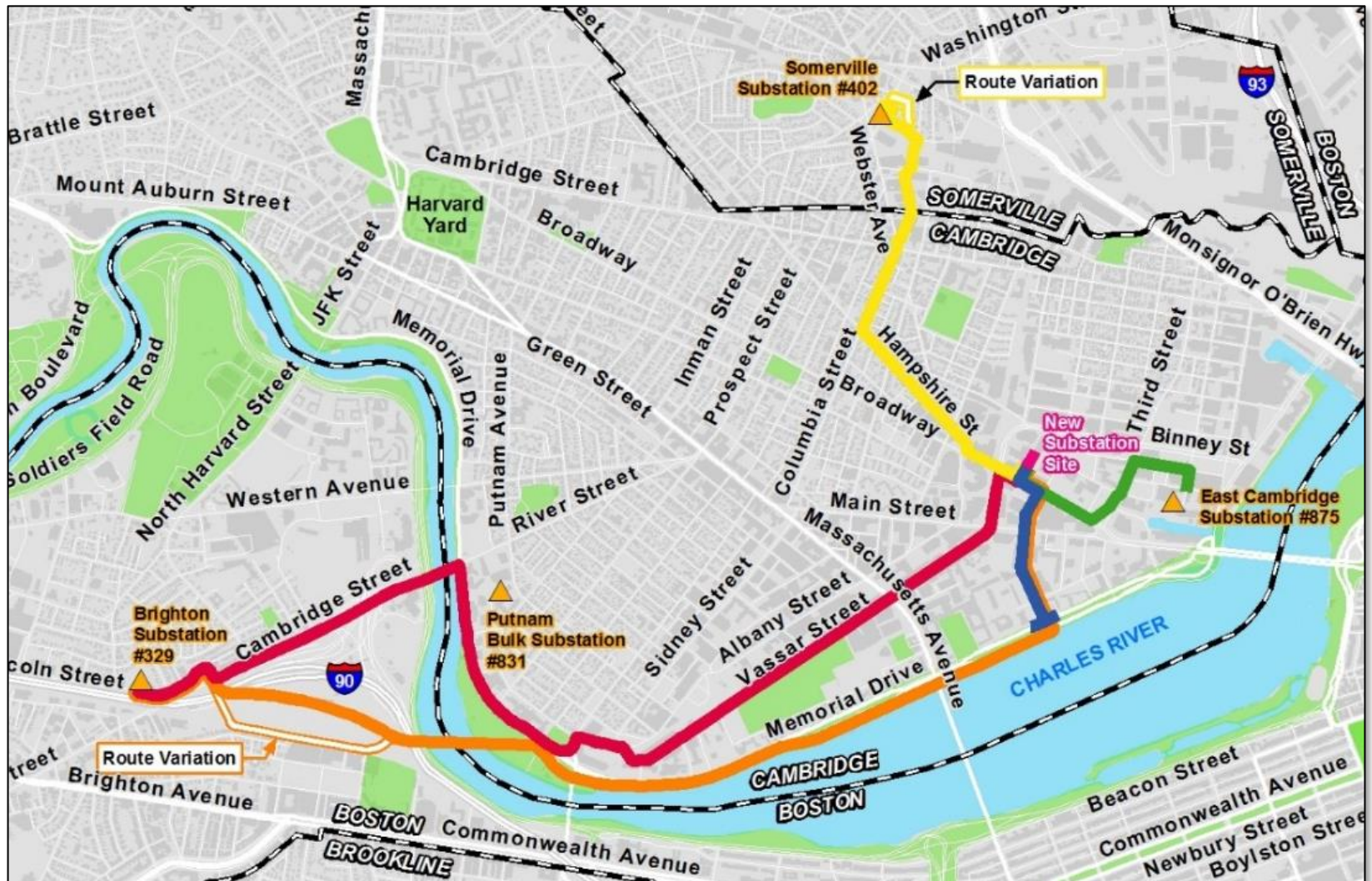
- ✓ System Reliability
- ✓ Technical Feasibility
- ✓ Environmental Impacts
- ✓ Community Impacts
- ✓ Stakeholder Feedback
- ✓ Cost to Ratepayers



Route Analysis and Selection

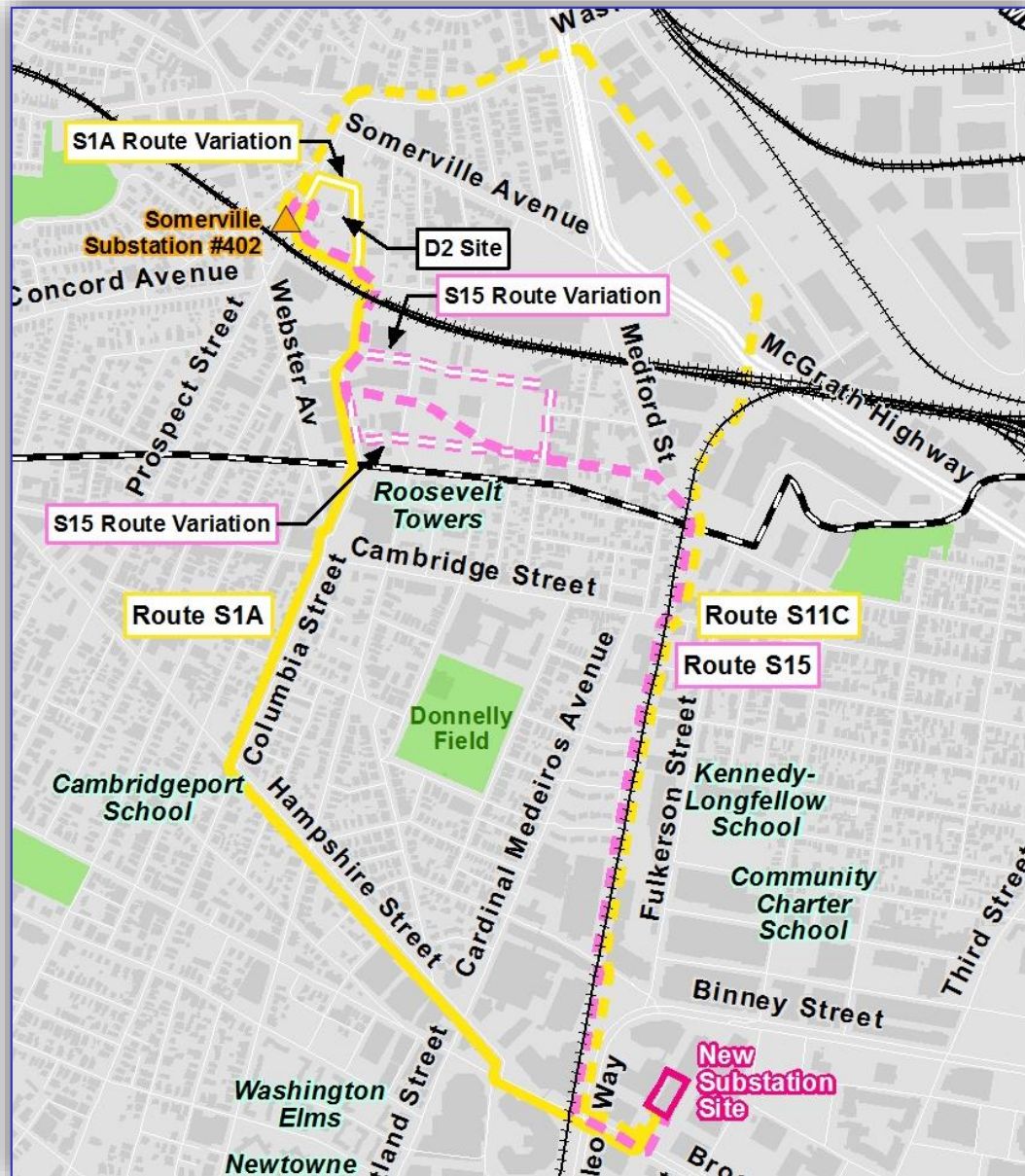
Proposed routes from Kendall Square

- ✓ Environmental considerations
- ✓ Reliability
- ✓ Cost



Potential Routes from Kendall Sq. to Union Sq.

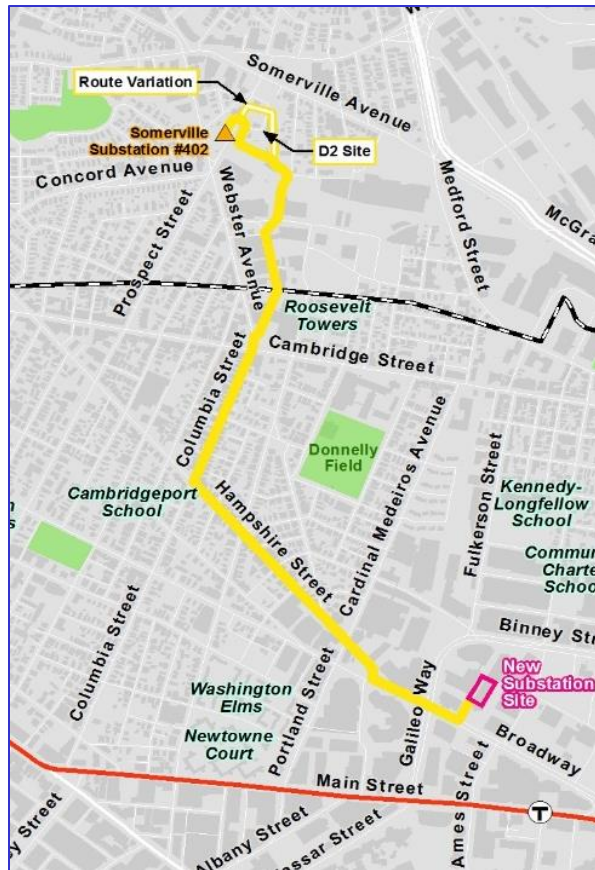
Hybrid route S15 provides a third option



Potential Routes from Kendall Sq. to Union Sq.

Hybrid route S15 follows RR track & South Street

S1A



S11C



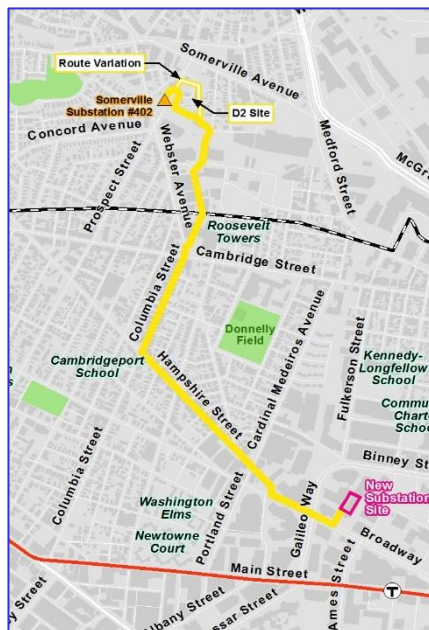
S15



Preliminary Comparisons and Conclusions

Early results indicate S15 is favorable, but more work remains

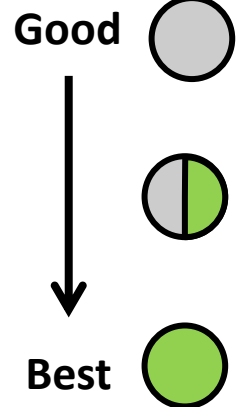
S1A



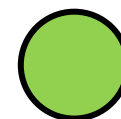
S11C



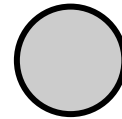
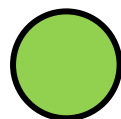
S15



Natural & Built
Environment



Cost



Scoring is preliminary. Further analysis required to make final determination.

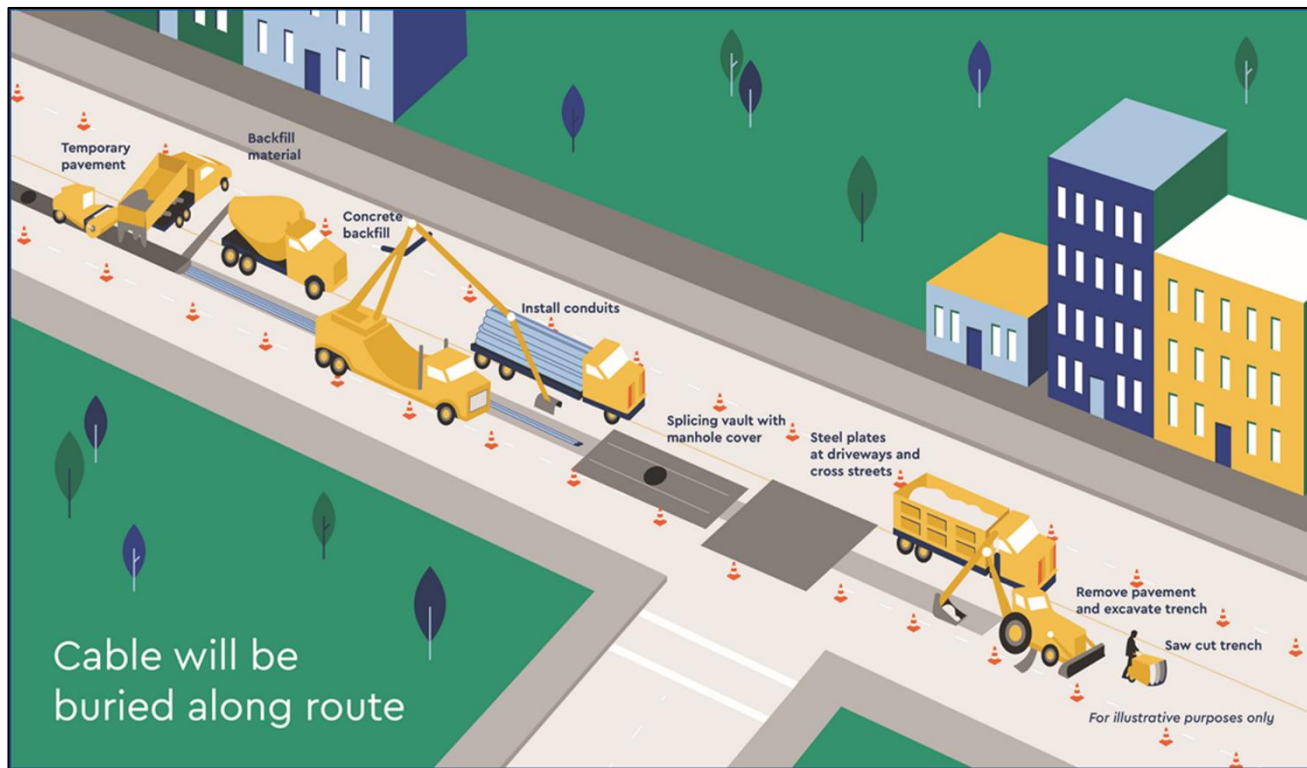
Typical Street Construction Sequencing for Line Installation

The “train”

Eversource crews will be working in local streets for each phase of the Project.

Work near residences typically takes a few weeks.

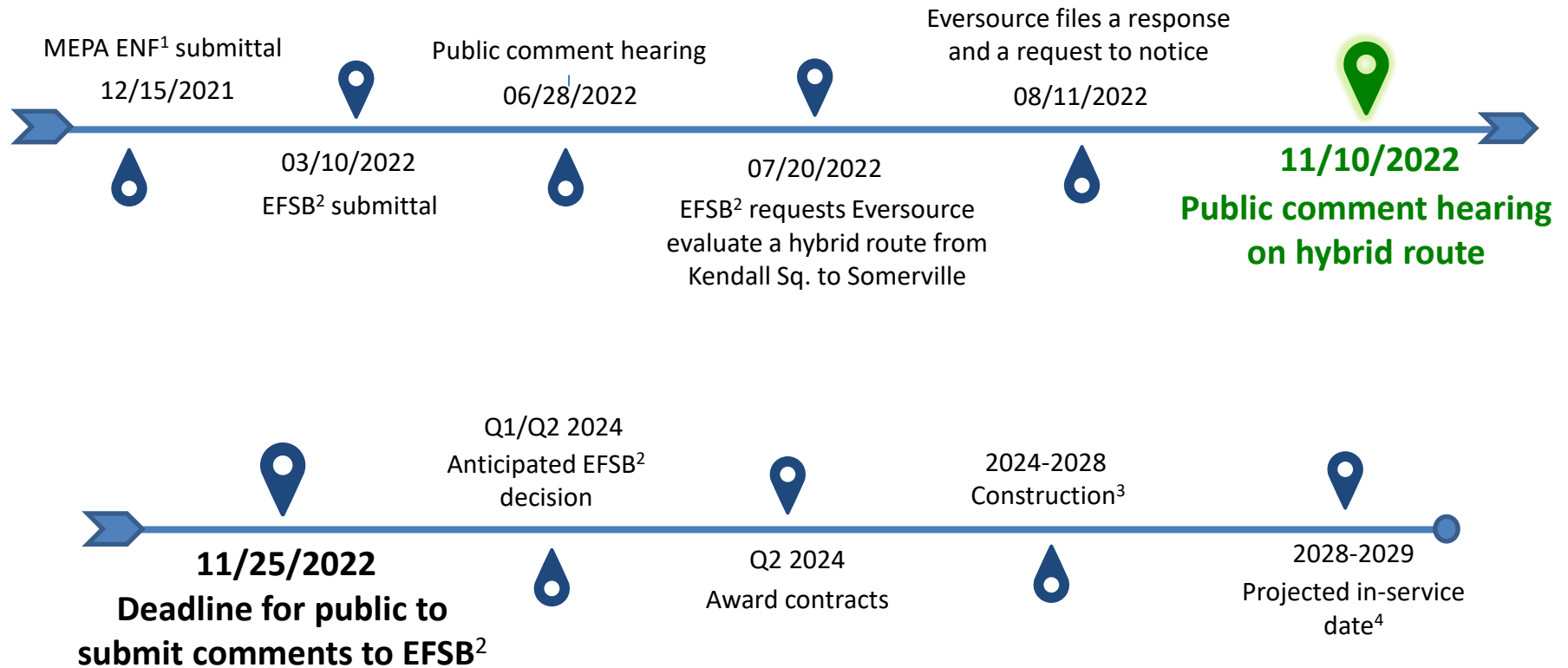
We coordinate with each city on traffic management and restoration plans.



1. Vault installation
2. Saw cut and excavate trench
3. Install duct banks and backfill
4. Temporarily restore road surface
5. Cable pulling and splicing
6. Permanent restoration

This image is for illustrative purposes only. It is not drawn to scale and does not represent any actual streets.

Regulatory Timeline and Next Steps





For More Information:



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www.eversource.com/greater-cambridge-energy-program



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