

# EAST EAGLE SUBSTATION

## *Addressing the Concerns of the Community*

### Project Description

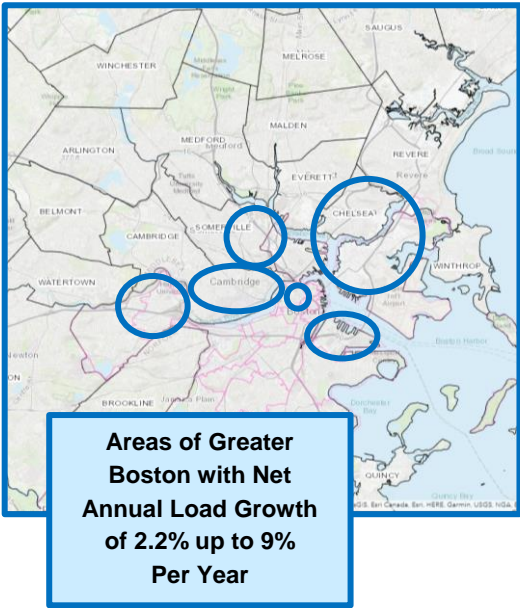
The East Eagle Substation, part of the Mystic - East Eagle - Chelsea Reliability Project, is a new substation on East Eagle Street in East Boston, Mass. It will be connected to existing substations in Chelsea and Everett via two, new, 115-kilovolt underground transmission lines.

### Project Need

Eversource currently supplies electricity to East Boston from a substation in Chelsea. Without the construction of the East Eagle Substation by 2022, forecasted electric demand will exceed the capacity of the Chelsea Substation to serve the residents and businesses of East Boston reliably and safely. The Chelsea Substation is already experiencing capacity constraints in meeting *existing* demand.

### Electric Demand

While electric demand in much of New England has not grown or remained flat, in the East Boston area, the need for electricity continues to grow. Chelsea Substation, which currently serves the electric load in the area, has capacity constraints. This puts electricity reliability in the area at risk.



(continued)

## Project Review and Approval

The Mystic - East Eagle - Chelsea Reliability Project received the necessary state regulatory approval from the Energy Facilities Siting Board (EFSB) on December 1, 2017.

In response to the interests expressed by a group participating in the proceedings, the EFSB requested that Eversource work with the City of Boston and consider the possible relocation of the substation to a different section of the same city-owned parcel. That request was part of the EFSB's approval of the project. Following that, Eversource and the City of Boston agreed to a land swap to allow that relocation. The relocation of the approved substation is what is now pending before the EFSB.

## Eversource Standards for Project Safety

Safety is Eversource's highest priority. As with all of our projects, we will design, build, and maintain the East Eagle Substation in accordance with leading engineering practices and in strict compliance with local, state, and federal regulations. Our comprehensive plan ensures the safety and well-being of the public. We take great care to account for air, soil, and groundwater impacts, and the effects of electric and magnetic fields (EMF). We go beyond the required setbacks for fire safety. We also follow evacuation and incident management plans for a quick, effective response to any emergency.

Eversource also maintains a comprehensive All-Hazards Emergency Response Plan that provides the framework for emergency response actions at its substations. We will take all actions necessary to protect the health and safety of the public in the event of an emergency.

## Substation Location

The East Eagle Substation will not pose a risk to the nearby jet fuel storage depot or vice versa. The edge of the substation property is 450 feet away from the nearest jet fuel depot. From a fire protection and exposure perspective, this distance far exceeds the minimum required setbacks of a fuel storage tank from the property line on which it is located.

## Project Cost Allocation

While the residents of East Boston will directly benefit in added electric capacity from the construction of the East Eagle Substation, the new transmission line between the Mystic and Chelsea Substations will also support the reliability of the bulk power system across New England. Projects that are determined to be of regional benefits – such as the Mystic - East Eagle - Chelsea Reliability Project – are paid for by electricity consumers across New England. The Chelsea Substation and its connections to these lines will be paid for by electric consumers throughout eastern Massachusetts.

## Alternative Solutions

Eversource identified and assessed several alternative projects to solve the challenge of meeting increasing electric demand for East Boston, including distributed generation, energy efficiency, demand response, and energy storage.

The results of Eversource's examination of these alternative solutions were reviewed in detail by the EFSB's energy regulators, who agreed that none of these non-transmission alternative solutions, either alone or in combination, could meet the forecasted need. The findings showed these alternatives would also be significantly more expensive for customers to implement in the quantity required to meet the projected need.

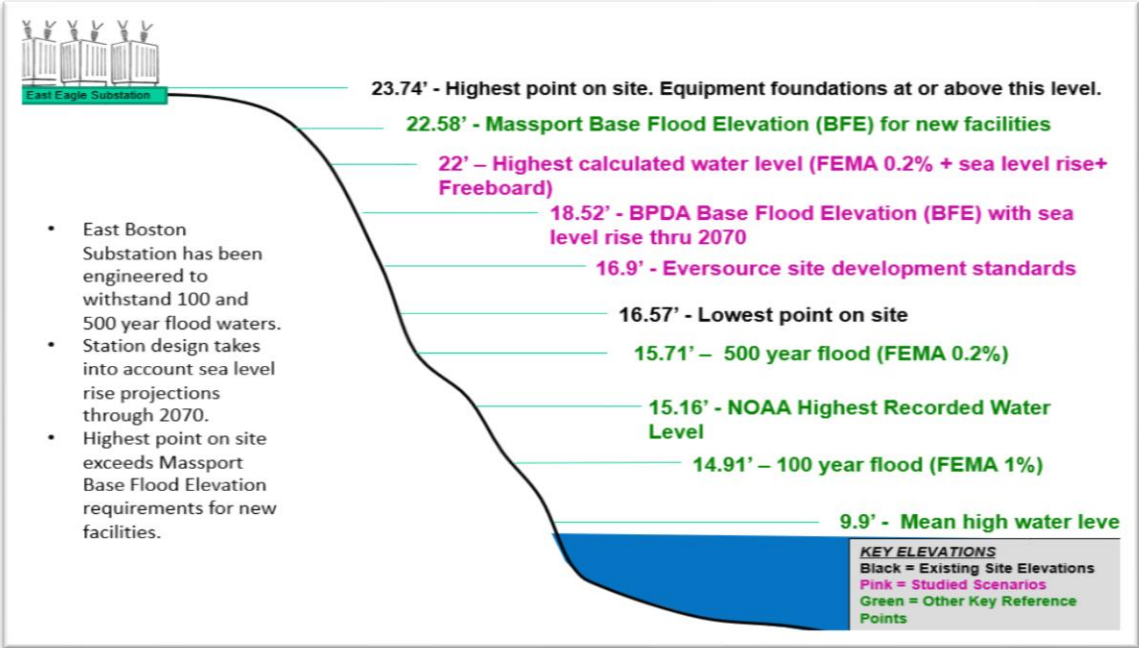
## Massport Substation

Eversource is NOT building a substation on Massport property. Massport is constructing a customer-owned station. Customer stations are private property installations using switchgear purchased and maintained by the customer, and service is supplied through lines that do not feed the East Boston distribution load.

## Substation Resiliency

To address any concerns about potential flood impacts to the substation and surrounding area, Eversource chose a design foundation elevation for the substation equipment that exceeds the flood elevation standards recommended by the Massachusetts Port Authority, the Boston Planning and Development Agency, Climate Ready Boston, the Federal Emergency Management Agency, and the Massachusetts Department of Transportation Central Artery Project.

In addition, our stormwater infiltration and detention system has been designed to prevent any potential for flooding in the neighborhood and was approved by the City of Boston Water and Sewer Commission.



## For More Information

Keeping the lines of communication open is important to us. For more information, send an email to [ProjectInfo@eversource.com](mailto:ProjectInfo@eversource.com), visit [Eversource.com](http://Eversource.com), or call 800-793-2202.