



# Denny Substation Project

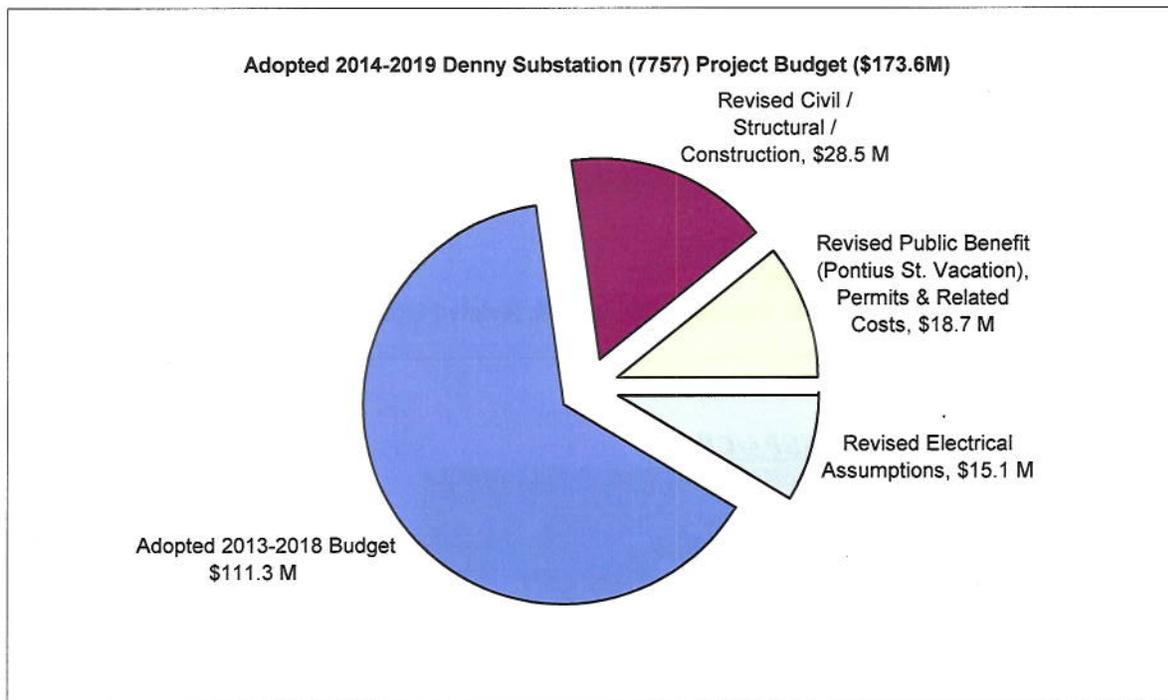
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## Seattle City Light Denny Substation Budget Update (7757)

### Adopted 2014-2019 Denny Substation (7757) Project Budget (\$173.6M)

Located near Denny Way and Stewart Streets, the Denny Substation is being designed to support and serve the future expansion and anticipated growth of the area. The original scope and budget (Adopted 2013-2018) for the Denny Substation was \$111.3M. Now that the project has moved forward with public outreach and into the design process, additional scope and budget are required.



The original budget was for a substation with a 12' Concrete Masonry Unit (CMU) wall as part of a more compact substation. However, as a result of public outreach and urban integration considerations required by City of Seattle urban policies, a more aesthetic wall and structure (over 40 feet high with a finish that integrates with the neighborhood) is now included for the substation.

#### **Revised Civil / Structural / Construction: \$28.5M**

Additional Wall (Length, Height & Treatment): \$12.9M

Additional Civil Costs: \$15.6M

In advancing all elements of this design the size of the substation has increased requiring the vacation of Pontius Street. Street vacation requires public benefits be provided, utilities be relocated and other expenses incurred. Integral to the urban integration of this design is a pedestrian ramp providing pedestrian connectivity between the adjacent neighborhoods, the substation facility & function, and programming of open space.

**Revised Public Benefit (Pontius Street Vacation), Permits & Related Costs: \$18.7M**

Public Benefit (Pontius Street Vacation): \$6.9M

Utility Relocations, Street Improvements: \$5.0M

Public Amenity Ramp: \$4.6M

City of Seattle Labor for Design review for Permits, IDT, etc.: \$2.2M

In the original scope, the initial construction of the substation was six feeders and two transformers. However we have seen accelerated load growth at load densities beyond what was originally anticipated requiring accelerated network reinforcement (with growth in the Denny Triangle and various data centers being considerably larger than the average 2 MVA per block). The accelerated equipment installation adds 6 feeders, a third transformer and supporting equipment (such as circuit breakers, capacitors, etc.). As the project has moved forward from basic concept to preliminary engineering, some additional equipment and scope have been identified that were not included in the original budget.

**Revised Electrical Assumptions \$15.1M**

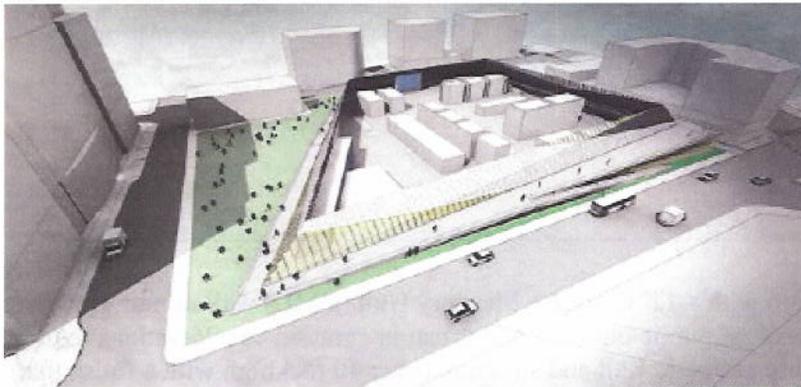
Accelerated Equipment Installation: \$7.3M

Additional Equipment / Refined Scope: \$7.8M

**Adopted 2014-2019 Overall Project Budget Summary:**

Adopted 2013-2018 Denny Substation Budget	\$111.3M
Revised Civil / Structural / Construction	\$28.5M
Revised Public Benefit (Pontius Street Vacation), Permits & Related Costs	\$18.7M
<u>Revised Electrical Assumptions</u>	<u>\$15.1M</u>
<b>Total</b>	<b>\$173.6M</b>

**Alternative 3 in Denny Substation SEPA/EIS**





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## Offsets included in Adopted Plan

- \$ 26.7 M - Deferred spending on Denny-Mass Transmission Project
- \$ 6.8 M - Deferred spending on SLU Network Project
- \$ 18.0 M - Sale of 8<sup>th</sup> and Roy St Shops Property
- \$ 17.8 M - Reduce pace of Cable Injection/Replacement by \$2.5M per yr
  - Defer Substation Equipment replacement
  - Defer further design development of Interbay Substation

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**\$ 69.3 M of Total Offsets in Adopted Plan**

