In keeping with City Light’s environmental stewardship commitment and our clean electricity and energy conservation practices, the Denny Substation proposes to minimize energy consumption and reduce pollution, while helping City Light provide electricity to Seattle at some of the nation’s lowest rates. Below are key sustainable elements, where they will be located, and the role they play in this one-of-a-kind substation.

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**Site Contamination Cleanup**
Site cleanup involved removing underground storage tanks and contaminated soils, installing a stormwater detention system and backfilling the site with clean dirt.

**Increased Soil Depth at Plantings**
Increasing the soil depth helps to reduce stormwater runoff.

**Bioretention Planter**
A bioretention planter will treat stormwater runoff generated from the alley.

**Drought-Tolerant Plants**
Native and drought tolerant plants will be used to reduce pesticides and conserve water.

**High-Efficiency Sprinkler Nozzles and Weather Sensors**
Using high-efficiency nozzles and weather sensors will minimize irrigation needs.

**KEY SUSTAINABLE ELEMENTS:**
- Site Contamination Cleanup
- Increased Soil Depth at Plantings
- Bioretention Planter
- Drought-Tolerant Plants
- High-Efficiency Sprinkler Nozzles and Weather Sensors
- Solar Technology Panels
- Heat Recovery System
- Water Feature
- Sunlight Access
- Educational Graphics
- Energy Metering

Turn over to see more >

www.seattle.gov/light/dennysub
CREATE RENEWABLE ENERGY AND ENERGY EFFICIENCIES

6 Solar Technology Panels

Using a Photovoltaic Array - solar power system - will convert solar energy into electricity to deliver a Net Positive Energy solution for both the community meeting space and Energy Inspiration Center, which are pursuing the Living Building Challenge Petal Certification.

7 Heat Recovery System

A heat recovery system will be installed in the Switchgear Vault and the Control Building. This will provide 100% of the heating required for the proposed community meeting space and Energy Inspiration Center.

CONNECT PEOPLE TO NATURE AND SUSTAINABLE PRACTICES

8 Water Feature

A runnel – or narrow channel – will be installed as a landscape amenity to collect and visually express site rainwater.

9 Sunlight Access

The angled façade of the substation allows increased sunlight to reach open spaces and properties adjacent to the site.

10 Educational Graphics

Graphics on the facility’s façade will communicate information about Seattle City Light, energy, and smart commuting.

11 Energy Metering

Energy consumption data will be creatively displayed to provide an educational element.

KEY SUSTAINABLE ELEMENTS:

Site Contamination Cleanup
Increased Soil Depth at Plantings
Bioretention Planter
Drought-Tolerant Plants
High-Efficiency Sprinkler Nozzles and Weather Sensors

Solar Technology Panels
Heat Recovery System
Water Feature
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