

**Asset Management: Data and Work Management Systems**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2008  
**Project ID:** 9941      **End Date:** 4th Quarter 2011

**Location:** 700 5th Ave

**Neighborhood Plan:** Commercial Core      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Downtown      **Urban Village:** Commercial Core

This project provides a work management system, improvements in purchasing systems, a compatible unit module, and an interface to the proposed outage management system. The work management system for Energy Delivery and Power Production work groups is the largest work area in this project. These work areas form part of the comprehensive Asset Management program. Additional work areas are contained in 9940, Asset Management: Records, Assessment, and Standards. All of the work areas are interdependent and are designed to fit together to provide additional benefits. Also refer to project 9942, Outage Management System, for information on that project.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	2,781	3,785	1,724	52	0	0	8,342
<b>Project Total:</b>	0	0	2,781	3,785	1,724	52	0	0	8,342
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	2,781	3,785	1,724	52	0	0	8,342
<b>Appropriations Total*</b>	0	0	2,781	3,785	1,724	52	0	0	8,342
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	2,421	1,641	2,633	1,647	0	0	8,342

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

## Asset Management: Records, Assessment, and Standards

<b>BCL/Program Name:</b> Customer Services & Energy Delivery - CIP	<b>BCL/Program Code:</b> SCL350
<b>Project Type:</b> New Facility	<b>Start Date:</b> 1st Quarter 2008
<b>Project ID:</b> 9940	<b>End Date:</b> 4th Quarter 2011

**Location:** 700 5th Ave

**Neighborhood Plan:** Commercial Core

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Downtown

**Urban Village:** Commercial Core

This project designs, develops, and implements hardware and software to facilitate asset inventory and condition assessment record keeping, preventive maintenance, and development of planning and design standards. These work areas form part of the comprehensive Asset Management program. Additional work areas are contained in project 9941, Asset Management: Data and Work Management Systems. All of the work areas are interdependent and are designed to fit together to provide additional benefits.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	155	1,861	1,294	27	0	0	3,337
<b>Project Total:</b>	0	0	155	1,861	1,294	27	0	0	3,337
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	155	1,861	1,294	27	0	0	3,337
<b>Appropriations Total*</b>	0	0	155	1,861	1,294	27	0	0	3,337
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	155	1,000	1,489	694	0	0	3,338

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**Aurora Avenue Undergrounding**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2008  
**Project ID:** 8402      **End Date:** 4th Quarter 2010

**Location:** Aurora Ave N/145th Ave NE/165th Ave NE

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project converts existing overhead distribution service to underground in support of the Seattle Department of Transportation's (SDOT's) Aurora Transit, Pedestrian, and Safety Improvements Project (TC366250). SDOT's project designs and constructs a seven-lane roadway section comprised of a business access/transit lane and two general purpose lanes in each direction, a left turn lane/landscaped center median, a curb, a gutter, and a sidewalk/amenity zone to include sidewalks and landscaping from N 137th to N 145th Streets. In conjunction with SDOT's work, City Light designs and constructs underground vaults and ducts for distribution. Feeder cables, local distribution, and service laterals are installed in the vaults and ducts, and underground fed streetlights are also installed. The work includes temporary arrangements for distribution, cutover of service from overhead to underground distribution, and removal of overhead lines and poles. Arrangements are made for communication companies sharing or leasing space on the poles. Project costs shown below are estimates and will be revised as the project progresses.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	1,046	8,038	4,814	0	0	0	13,898
<b>Project Total:</b>	0	0	1,046	8,038	4,814	0	0	0	13,898
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	1,046	8,038	4,814	0	0	0	13,898
<b>Appropriations Total*</b>	0	0	1,046	8,038	4,814	0	0	0	13,898
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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## Automated Meter Reading

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 3rd Quarter 2007  
**Project ID:** 8368      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project purchases and installs Automated Meter Reading System equipment in new buildings located in the South Lake Union and Denny Triangle areas beginning in 2007, while retrofits for existing buildings will begin in 2008. Implementation of this project is the result of successful completion of the 2006 Automated Meter Reading Pilot Project. It improves efficiency and accuracy as the use of meter readers is no longer necessary in order to obtain pertinent meter data information.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	893	1,352	1,409	1,490	1,232	1,051	1,063	8,490
<b>Project Total:</b>	0	893	1,352	1,409	1,490	1,232	1,051	1,063	8,490
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	893	1,352	1,409	1,490	1,232	1,051	1,063	8,490
<b>Appropriations Total*</b>	0	893	1,352	1,409	1,490	1,232	1,051	1,063	8,490
<b>O &amp; M Costs (Savings)</b>			116	125	172	142	0	0	555

## Bothell Substation - New Sewer System

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2009  
**Project ID:** 7781      **End Date:** 1st Quarter 2011

**Location:** 3912 156th St SE, Bothell, WA 98012

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project installs a new sewer system at City Light's Bothell Substation and connects it to the Silverlake Water District sewer system, and abandons or decommissions the station's septic system. It includes disconnecting connections, and removing and replacing existing underground electrical safety conductors.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	343	379	46	0	0	768
<b>Project Total:</b>	0	0	0	343	379	46	0	0	768
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	343	379	46	0	0	768
<b>Appropriations Total*</b>	0	0	0	343	379	46	0	0	768
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Bothell Substation - Water Tower Removal**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2007  
**Project ID:** 7782      **End Date:** 4th Quarter 2008

**Location:** 3912 156th St SE, Bothell, WA 98012

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project removes and replaces City Light's Bothell Substation's water tower, its foundations, and impacted ground material. It includes disconnecting tower connections to the station's current water distribution system.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	737	756	0	0	0	0	0	1,493
<b>Project Total:</b>	0	737	756	0	0	0	0	0	1,493
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	737	756	0	0	0	0	0	1,493
<b>Appropriations Total*</b>	0	737	756	0	0	0	0	0	1,493
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Boundary Dam - Access Road & Forebay Rec Area Paving**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2009  
**Project ID:** 6454      **End Date:** 3rd Quarter 2010

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project paves the Boundary Access Road from "the Y" to the parking lot at the powerhouse entrance and the forebay recreation area.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	61	192	0	0	0	253
<b>Project Total:</b>	0	0	0	61	192	0	0	0	253
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	61	192	0	0	0	253
<b>Appropriations Total*</b>	0	0	0	61	192	0	0	0	253
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Boundary Dam - East Access Road Culvert-Drainage Provisions**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 6409      **End Date:** 4th Quarter 2007

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

This project issues a public works construction contract for design and implementation of improvements to the Boundary Dam East Access Road. It includes culvert installation(s), run-off control, resurfacing, hillside stabilization, and reconstruction where temporary repairs have failed.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	102	243	0	0	0	0	0	0	345
<b>Project Total:</b>	102	243	0	0	0	0	0	0	345
<b>Fund Appropriations/Allocations</b>									
City Light Fund	102	243	0	0	0	0	0	0	345
<b>Appropriations Total*</b>	102	243	0	0	0	0	0	0	345
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Boundary Dam - Elevator Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2003  
**Project ID:** 6355      **End Date:** 1st Quarter 2008

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

The Boundary Dam - Elevator Improvements project supports a turnkey elevator rebuild contract. It includes the addition of one new landing. The rebuild improves the elevator's safety and reliability, prolonging the ability to transport maintenance materials and expanding access to various levels at the dam.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	159	453	15	0	0	0	0	0	627
<b>Project Total:</b>	159	453	15	0	0	0	0	0	627
<b>Fund Appropriations/Allocations</b>									
City Light Fund	159	453	15	0	0	0	0	0	627
<b>Appropriations Total*</b>	159	453	15	0	0	0	0	0	627
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Boundary Dam - Emergency Lighting Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 6342      **End Date:** 3rd Quarter 2009

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

The Boundary Dam - Emergency Lighting Improvements project replaces emergency lighting, corrects failed cable and wiring, and installs emergency lighting where it is inadequate or nonexistent throughout the Boundary facility.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	2	151	0	266	0	0	0	0	419
<b>Project Total:</b>	2	151	0	266	0	0	0	0	419
<b>Fund Appropriations/Allocations</b>									
City Light Fund	2	151	0	266	0	0	0	0	419
<b>Appropriations Total*</b>	2	151	0	266	0	0	0	0	419
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Boundary Dam - Forebay Recreation Area Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2011  
**Project ID:** 6345      **End Date:** 3rd Quarter 2012

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

In the 1980s, when Units 55 and 56 were added, the Federal Energy Regulatory Commission (FERC) amended the license of the Boundary plant. The Amendment required additional recreational facilities. None were added, due to water and septic system issues. As part of the Boundary Rehabilitation project, City Light addressed the water issue and developed a conceptual plan for recreational improvements. Those plans were put on hold due to budget constraints and security restrictions following 9-11. (Additional engineering is still required to address septic system issues; soil conditions in the area may limit the capacity of even a new, larger system.) Boundary's FERC license is due for renewal in 2011. In re-license negotiations with stakeholders, City Light will clarify what, if any, additional work is necessary to enhance recreation in the Forebay area.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	0	55	726	0	781
<b>Project Total:</b>	0	0	0	0	0	55	726	0	781
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	0	55	726	0	781
<b>Appropriations Total*</b>	0	0	0	0	0	55	726	0	781
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Boundary Dam - Headgate Hoist Room Upgrades**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2006  
**Project ID:** 6408      **End Date:** 3rd Quarter 2008

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project installs dehumidifying equipment, maintenance hoists, and safety platforms in the Boundary Head Gate Hoist Rooms, as recommended to reduce frequency and duration of maintenance activities.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	44	121	237	0	0	0	0	0	402
<b>Project Total:</b>	44	121	237	0	0	0	0	0	402
<b>Fund Appropriations/Allocations</b>									
City Light Fund	44	121	237	0	0	0	0	0	402
<b>Appropriations Total*</b>	44	121	237	0	0	0	0	0	402
<b>O &amp; M Costs (Savings)</b>			1	1	1	1	1	0	5

**Boundary Dam - Improve Lighting**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 6420      **End Date:** 2nd Quarter 2008

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project redesigns and installs improved lighting fixtures at the Boundary Dam facility, in order to meet safety and public viewing needs.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	8	157	75	0	0	0	0	0	240
<b>Project Total:</b>	8	157	75	0	0	0	0	0	240
<b>Fund Appropriations/Allocations</b>									
City Light Fund	8	157	75	0	0	0	0	0	240
<b>Appropriations Total*</b>	8	157	75	0	0	0	0	0	240
<b>O &amp; M Costs (Savings)</b>			(2)	(2)	(2)	(2)	(2)	(2)	-12

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**Boundary Dam - Instrumentation Upgrd & Integration for Contr**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2006  
**Project ID:** 6343      **End Date:** 1st Quarter 2011

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides funding for a purchase and installation contract with an electrical contractor or supplier to upgrade or replace Unit 51-56 unit control boards, as necessary, to provide full interface with a new network-based control system.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	247	1,148	1,632	450	6	0	0	3,483
<b>Project Total:</b>	0	247	1,148	1,632	450	6	0	0	3,483
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	247	1,148	1,632	450	6	0	0	3,483
<b>Appropriations Total*</b>	0	247	1,148	1,632	450	6	0	0	3,483
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		247	1,148	1,105	977	6	0	0	3,483

**Boundary Dam - Ladder & Stairway Upgrades**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2007  
**Project ID:** 6430      **End Date:** 2nd Quarter 2009

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project upgrades ladders, stairs, handrails, etc., on Boundary Dam to comply with specifications of the Washington Administrative Code (WAC) for current fall protection and other safety requirements. Depending on the condition of the ladder or stairs in question, swing gates, handrails, landings and modified stair treads will be installed.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	75	219	59	0	0	0	0	353
<b>Project Total:</b>	0	75	219	59	0	0	0	0	353
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	75	219	59	0	0	0	0	353
<b>Appropriations Total*</b>	0	75	219	59	0	0	0	0	353
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Boundary Dam - Outrigger/Trans Line Repl System**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2003  
**Project ID:** 6357      **End Date:** 3rd Quarter 2008

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides methods which allow re-conductoring between the transformer and the outriggers at the top of the cliff without exposing personnel to potential rockfalls. The project also designs and fabricates two replacement outriggers and funds replacement of Unit 55 conductors damaged by several rockfall incidents.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	60	431	590	0	0	0	0	0	1,081
<b>Project Total:</b>	60	431	590	0	0	0	0	0	1,081
<b>Fund Appropriations/Allocations</b>									
City Light Fund	60	431	590	0	0	0	0	0	1,081
<b>Appropriations Total*</b>	60	431	590	0	0	0	0	0	1,081
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Boundary Dam - Penstock 36" Fill Line Emerg Closure**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2007  
**Project ID:** 6453      **End Date:** 2nd Quarter 2007

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project designs, fabricates and installs an emergency closure for the 36" penstock fill line. Closure may be a slide gate, bulkhead or check valve.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	41	0	0	0	0	0	0	41
<b>Project Total:</b>	0	41	0	0	0	0	0	0	41
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	41	0	0	0	0	0	0	41
<b>Appropriations Total*</b>	0	41	0	0	0	0	0	0	41
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Boundary Dam - Service Area Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2004  
**Project ID:** 6347      **End Date:** 3rd Quarter 2011

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces cable, panel and switchgear for several buildings in the service area, an upgrade of the fire protection system in the oil storage building, and covered, outdoor storage for steel.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	936	484	8	309	0	54	0	0	1,791
<b>Project Total:</b>	936	484	8	309	0	54	0	0	1,791
<b>Fund Appropriations/Allocations</b>									
City Light Fund	936	484	8	309	0	54	0	0	1,791
<b>Appropriations Total*</b>	936	484	8	309	0	54	0	0	1,791
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Boundary Dam - Sluice Gate Protection, Spill Prevention**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 6431      **End Date:** 4th Quarter 2008

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces the sluice gate cavity fill valves, provides weather protection for the valves, installs safety railing and fall protection measures for the sluice gate slots, and installs catch-basins at key points in the sluice gate seal antifreeze system to prevent spillage.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	332	32	118	0	0	0	0	0	482
<b>Project Total:</b>	332	32	118	0	0	0	0	0	482
<b>Fund Appropriations/Allocations</b>									
City Light Fund	332	32	118	0	0	0	0	0	482
<b>Appropriations Total*</b>	332	32	118	0	0	0	0	0	482
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Boundary Dam - Spillgate Hoist House Rehab & Oil Control**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2004  
**Project ID:** 6349      **End Date:** 4th Quarter 2008

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

This project replaces the spillgate hoist houses to provide better weather protection and adequate lighting, and to prevent intrusion by animals. This project also designs and installs methods to contain oil spills from the hoisting equipment.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	9	74	730	0	0	0	0	0	813
<b>Project Total:</b>	9	74	730	0	0	0	0	0	813
<b>Fund Appropriations/Allocations</b>									
City Light Fund	9	74	730	0	0	0	0	0	813
<b>Appropriations Total*</b>	9	74	730	0	0	0	0	0	813
<b>O &amp; M Costs (Savings)</b>			(2)	(2)	(2)	(2)	0	0	-8

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Boundary Dam - Tailrace Recreation Area Improvement**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2011  
**Project ID:** 6346      **End Date:** 3rd Quarter 2013

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

In the 1980s, when Units 55 and 56 were added, the Federal Energy Regulatory Commission (FERC) amended the license of the Boundary plant. The Amendment required additional recreational facilities. None were added, due to water and septic system issues. As part of the Boundary Rehabilitation, City Light addressed the water issue and developed a conceptual plan for recreational improvements. Those plans were put on hold due to budget constraints and security restrictions following 9-11. (Additional engineering is still required to address septic system issues; soil conditions in the area may limit the capacity of even a new, larger system.) Boundary's FERC license is due for renewal in 2011. In re-license negotiations with stakeholders, City Light will clarify what, if any, additional work is necessary to enhance recreation in the Tailrace area.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	0	237	767	122	1,126
<b>Project Total:</b>	0	0	0	0	0	237	767	122	1,126
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	0	237	767	122	1,126
<b>Appropriations Total*</b>	0	0	0	0	0	237	767	122	1,126
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	0	0	0	237	541	347	1,125

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Boundary Dam - Trashrack & Trashrake Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2003  
**Project ID:** 6338      **End Date:** 3rd Quarter 2011

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

The trashrack (a fixed element that keeps debris out of a generator) was installed when the Boundary Dam was constructed. The trashrack prevents debris from going into the penstocks. This project funds the addition of a trashrake to remove debris accumulated in the trashrack. This project performs a thorough underwater inspection of the trashrack, in order to identify and implement modifications that may be needed to accommodate a trashraking system. It also designs and installs trashrake equipment to keep the racks clear of debris on a regular basis.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	1	0	0	0	144	1,554	0	0	1,699
<b>Project Total:</b>	1	0	0	0	144	1,554	0	0	1,699
<b>Fund Appropriations/Allocations</b>									
City Light Fund	1	0	0	0	144	1,554	0	0	1,699
<b>Appropriations Total*</b>	1	0	0	0	144	1,554	0	0	1,699
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Boundary Dam - Units 51-54 Turbine Pit Cranes**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2010  
**Project ID:** 6350      **End Date:** 4th Quarter 2010

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project installs monorail hoist systems in the Units 51-54 turbine pits. Units 55 and 56 currently have monorail hoists, which facilitate maintenance and assembly of wicket gate linkages and other components in the turbine pits. A wicket gate is a large, complex valve that controls the flow of water into the generator. Plant personnel have found the monorail hoist systems in Units 55 and 56 have reduced the difficulty and time required for maintenance. Similar advantages are realized by installing monorail hoists at four other units. This project has been deferred from 2003. The new schedule has not yet been determined, but may occur earlier than 2010.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	131	0	0	0	131
<b>Project Total:</b>	0	0	0	0	131	0	0	0	131
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	131	0	0	0	131
<b>Appropriations Total*</b>	0	0	0	0	131	0	0	0	131
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Boundary Dam - Units 51-56 Penstock Flow Monitoring**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2009  
**Project ID:** 6383      **End Date:** 3rd Quarter 2009

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project installs a permanent means of monitoring water flow in the turbines, either by installing acoustic flow meters or by providing accurate calibration and appropriate instrumentation to support the use of the existing differential pressure monitoring method.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	444	0	0	0	0	444
<b>Project Total:</b>	0	0	0	444	0	0	0	0	444
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	444	0	0	0	0	444
<b>Appropriations Total*</b>	0	0	0	444	0	0	0	0	444
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*



**Boundary Dam - Vista House Recreation Area Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2011  
**Project ID:** 6384      **End Date:** 4th Quarter 2012

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

City Light plans to clarify with Federal Energy Regulatory Commission (FERC) whether or not further work is necessary in the Vista House Recreation Area prior to re-licensing negotiations. If work is required, this project implements the conceptual plan developed during the Boundary Rehabilitation Project. If the work is not required, City Light intends to reprioritize its work plan and reallocate the funds to similar projects.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	0	83	144	0	227
<b>Project Total:</b>	0	0	0	0	0	83	144	0	227
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	0	83	144	0	227
<b>Appropriations Total*</b>	0	0	0	0	0	83	144	0	227
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Boundary Facility - Electrical System Upgrades**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2007  
**Project ID:** 6432      **End Date:** 4th Quarter 2010

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides electrical upgrades at the Boundary site to increase system redundancy, reduce electrical hazards, comply with the National Electric Code, and integrate systems with the recent Station Service replacement.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	267	79	17	380	0	0	0	743
<b>Project Total:</b>	0	267	79	17	380	0	0	0	743
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	267	79	17	380	0	0	0	743
<b>Appropriations Total*</b>	0	267	79	17	380	0	0	0	743
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Boundary Facility - Improve Radio Systems**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2005  
**Project ID:** 6412      **End Date:** 4th Quarter 2010

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project installs a new simulcast system to prevent the overlap of the existing signals and Radiax cable in the area to provide radio coverage where it is unavailable currently.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	6	0	0	2,294	724	0	0	0	3,024
<b>Project Total:</b>	6	0	0	2,294	724	0	0	0	3,024
<b>Fund Appropriations/Allocations</b>									
City Light Fund	6	0	0	2,294	724	0	0	0	3,024
<b>Appropriations Total*</b>	6	0	0	2,294	724	0	0	0	3,024
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	0	267	2,751	0	0	0	3,018

**Boundary Facility - Minor Improvements Program**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2004  
**Project ID:** 6401      **End Date:** 4th Quarter 2015

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides financing for unforeseeable, unscheduled capital work. In addition, the project funds scheduled, small capital projects that have cost estimates less than \$25,000. This project covers work specifically related to Boundary Facilities.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	1,547	1,604	1,901	781	705	841	734	2,480	10,593
<b>Project Total:</b>	1,547	1,604	1,901	781	705	841	734	2,480	10,593
<b>Fund Appropriations/Allocations</b>									
City Light Fund	1,547	1,604	1,901	781	705	841	734	2,480	10,593
<b>Appropriations Total*</b>	1,547	1,604	1,901	781	705	841	734	2,480	10,593
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Boundary Facility - Mucking Tunnel Drip Shields**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2009  
**Project ID:** 6407      **End Date:** 3rd Quarter 2009

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project installs drip shields and and/or awnings to control water drips and provide dry storage at the Boundary Facility.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	264	0	0	0	0	264
<b>Project Total:</b>	0	0	0	264	0	0	0	0	264
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	264	0	0	0	0	264
<b>Appropriations Total*</b>	0	0	0	264	0	0	0	0	264
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Boundary Powerhouse - Elevator Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2003  
**Project ID:** 6356      **End Date:** 4th Quarter 2007

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The project purchases and installs upgrades to the dam powerhouse elevator. This project will improve the elevator's functionality, restore its reliability, and make it ADA-compliant.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	159	353	0	0	0	0	0	0	512
<b>Project Total:</b>	159	353	0	0	0	0	0	0	512
<b>Fund Appropriations/Allocations</b>									
City Light Fund	159	353	0	0	0	0	0	0	512
<b>Appropriations Total*</b>	159	353	0	0	0	0	0	0	512
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Boundary Powerhouse - Network Control System Implementation**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2004  
**Project ID:** 6344      **End Date:** 3rd Quarter 2007

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project implements the conceptual design for a network-based control system at Boundary Dam. Security system improvements (installed separately) are designed to interface with this system.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	1,427	136	0	0	0	0	0	0	1,563
<b>Project Total:</b>	1,427	136	0	0	0	0	0	0	1,563
<b>Fund Appropriations/Allocations</b>									
City Light Fund	1,427	136	0	0	0	0	0	0	1,563
<b>Appropriations Total*</b>	1,427	136	0	0	0	0	0	0	1,563
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Boundary Powerhouse - Replace Transformer Disconnect Switch**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2004  
**Project ID:** 6411      **End Date:** 2nd Quarter 2007

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces disconnect switches at Boundary Powerhouse Transformer Bank 155/156 to improve safety and prevent damage to generating equipment.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	91	12	0	0	0	0	0	0	103
<b>Project Total:</b>	91	12	0	0	0	0	0	0	103
<b>Fund Appropriations/Allocations</b>									
City Light Fund	91	12	0	0	0	0	0	0	103
<b>Appropriations Total*</b>	91	12	0	0	0	0	0	0	103
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Boundary Powerhouse - Unit 53 Generator Rebuild**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 2nd Quarter 2012  
**Project ID:** 6352      **End Date:** 3rd Quarter 2014

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

As part of a programmatic series of generator rehabilitation projects for ten aging generators located at Ross, Diablo, and Boundary Powerhouses, this project issues a purchase and install contract for rewinding and refurbishing the generator. The project includes replacement of the carbon dioxide (CO2) fire suppression system with a water sprinkler system. The project may include a rotor mounted scanner or other diagnostic equipment.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	0	0	86	6,711	6,797
<b>Project Total:</b>	0	0	0	0	0	0	86	6,711	6,797
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	0	0	86	6,711	6,797
<b>Appropriations Total*</b>	0	0	0	0	0	0	86	6,711	6,797
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	0	0	0	0	86	350	436

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Boundary Powerhouse - Unit 55 Generator Rebuild**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2007  
**Project ID:** 6303      **End Date:** 1st Quarter 2011

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

This project is part of the Utility's Generator Rebuild Program. The program rebuilds ten generators (accounting for 70% of City Light's generating capability) by the end of 2013. This project repairs the Unit 55 Generator stator, which has been damaged by long-term exposure to excessive vibration inherent in the original generator design. (The stator is the stationary hollow cylinder in which the magnet rotates to generate electricity.) Although the vibration problem was resolved in the mid-1990s, the life of the stator was reduced by more than 15 years of exposure of severe vibration. This project also replaces the carbon dioxide fire-suppression system with a water sprinkler system. The project may include a rotor-mounted scanner or other diagnostic equipment.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	98	749	6,867	91	83	0	0	7,888
<b>Project Total:</b>	0	98	749	6,867	91	83	0	0	7,888
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	98	749	6,867	91	83	0	0	7,888
<b>Appropriations Total*</b>	0	98	749	6,867	91	83	0	0	7,888
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		98	544	1,282	5,461	504	0	0	7,889

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Boundary Powerhouse - Unit 56 Generator Rebuild**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2010  
**Project ID:** 6354      **End Date:** 4th Quarter 2012

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

As part of a programmatic series of rehabilitation projects for ten aging generators located at Ross, Diablo, and Boundary Powerhouses, this project issues a purchase and install contract for rewinding and refurbishing the generator. The project also replaces the carbon dioxide fire-suppression system with a water sprinkler system. The project may include a rotor mounted scanner or other diagnostic equipment.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	6,323	908	94	0	7,325
<b>Project Total:</b>	0	0	0	0	6,323	908	94	0	7,325
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	6,323	908	94	0	7,325
<b>Appropriations Total*</b>	0	0	0	0	6,323	908	94	0	7,325
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	0	0	391	6,517	417	0	7,325

**Boundary Powerhouse - Units 51-56 Governor Controls Upgrade**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2004  
**Project ID:** 6340      **End Date:** 4th Quarter 2007

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project purchases a programmable logic controller based governor control upgrade package for Units 51-56, new distributing valves, and installs the equipment, including its interface with new and existing unit control systems. Installation is collaborative effort between SCL crews and General Electric.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	3,278	225	0	0	0	0	0	0	3,503
<b>Project Total:</b>	3,278	225	0	0	0	0	0	0	3,503
<b>Fund Appropriations/Allocations</b>									
City Light Fund	3,278	225	0	0	0	0	0	0	3,503
<b>Appropriations Total*</b>	3,278	225	0	0	0	0	0	0	3,503
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Boundary Powerhouse - Units 55/56 Install Gate Rock Guard**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2004  
**Project ID:** 6341      **End Date:** 3rd Quarter 2007

**Location:** 10382 Boundary Rd, Metaline, WA 99153

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

The Boundary Powerhouse Unit 55/56 Intake Gate Rock Guard Installation project installs intake gate rock traps for Units 55 and 56, which were purchased with Units 55 and 56 in the 1980's, but never installed.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	216	9	0	0	0	0	0	0	225
<b>Project Total:</b>	216	9	0	0	0	0	0	0	225
<b>Fund Appropriations/Allocations</b>									
City Light Fund	216	9	0	0	0	0	0	0	225
<b>Appropriations Total*</b>	216	9	0	0	0	0	0	0	225
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**BPA Interconnection at Pinto Ridge**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 7120      **End Date:** 2nd Quarter 2007

**Location:** Coulee City

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

This project provides transmission and substation improvements to transfer power from Summer Falls and Main Canal onto transmission grids. Seattle City Light and Tacoma Power are parties to identical long-term power purchase agreements for the generation output of five plants in eastern Washington. Two of these contracts, Summer Falls and Main Canal (avg. 220,000 MW gen/yr), require a transmission arrangement that extends through the expiration of the contracts in 2024 and 2026 respectively. The long-term power transfer agreement with Avista Corporation expired 2005. The alternatives are to purchase long-term firm transmission from a transmission provider, e.g. Avista, or to provide for a direct connection into the BPA transmission system. Negotiations are underway to determine the best economic alternative. Either option may require additional construction to complete the transmission system. This project was formerly called "BPA Interconnection at Summer Falls".

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	1,737	0	0	0	0	0	0	1,737
<b>Project Total:</b>	0	1,737	0	0	0	0	0	0	1,737
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	1,737	0	0	0	0	0	0	1,737
<b>Appropriations Total*</b>	0	1,737	0	0	0	0	0	0	1,737
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Broad Street Substation Capacity Additions**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 7775      **End Date:** 4th Quarter 2011

**Location:** 319 6th Ave N

**Neighborhood Plan:** South Lake Union

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Lake Union

**Urban Village:** South Lake Union

This project adds a fourth 115/26kV power transformer and a 26kV bus to the substation, in order to increase capacity by 84 megawatts. The new 26kV bus will support new feeder breakers and a bus-voltage-regulating capacitor bank breaker. Because of space constraints, the project will also include replacing the existing three bus sections of 26kV switchgear with smaller switchgear. The new circuit breakers on four bus sections will supply the existing feeders and capacitor banks, with no new feeders or capacitor banks anticipated.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	348	125	5,576	4,560	82	0	0	10,691
<b>Project Total:</b>	0	348	125	5,576	4,560	82	0	0	10,691
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	348	125	5,576	4,560	82	0	0	10,691
<b>Appropriations Total*</b>	0	348	125	5,576	4,560	82	0	0	10,691
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		348	125	5,179	4,584	455	0	0	10,691

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Broad Street Substation Network**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 1999  
**Project ID:** 8203      **End Date:** 4th Quarter 2013

**Location:** 319 6th Ave N

**Neighborhood Plan:** South Lake Union

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Lake Union

**Urban Village:** South Lake Union

The Broad Street Substation Network project provides sufficient and reliable service capacity for their growing electrical power needs of our customers. This project provides a programmatic approach for comprehensive management of underground network assets (electrical and in some cases civil) serving customers in the Belltown and Denny Regrade areas. Based on projected new loads within the Denny Triangle and potentially a portion of South Lake Union area, the electrical capacity of the cables serving two sub-networks is almost exceeding capacity, requiring immediate action to avoid cable failures and long costly customer outages. Within the next five years, customer demand is likely to exceed the capacity of the cables in an additional three sub-networks. This project constructs at least ten vaults and ten blocks of duct banks, and performs ancillary work in 2007-2008.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	35,858	5,008	4,604	1,563	1,526	1,554	1,590	1,662	53,365
<b>Project Total:</b>	35,858	5,008	4,604	1,563	1,526	1,554	1,590	1,662	53,365
<b>Fund Appropriations/Allocations</b>									
City Light Fund	35,858	5,008	4,604	1,563	1,526	1,554	1,590	1,662	53,365
<b>Appropriations Total*</b>	35,858	5,008	4,604	1,563	1,526	1,554	1,590	1,662	53,365
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Building Envelope Upgrades**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1979  
**Project ID:** 9072      **End Date:** 4th Quarter 2013

**Location:** 500 Newhalem Creek Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Building Envelope Upgrades project replaces or restores exterior moisture and thermal barrier components of buildings such as roofing and insulation systems, exterior siding and cladding systems, windows and exterior doors. Replacement schedules are based primarily on periodic inspections and trouble call history. City Light's diverse inventory of buildings feature an assortment of exterior systems of different ages and sizes, resulting in a somewhat erratic funding pattern.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	5,957	0	61	736	123	119	120	121	7,237
<b>Project Total:</b>	5,957	0	61	736	123	119	120	121	7,237
<b>Fund Appropriations/Allocations</b>									
City Light Fund	5,957	0	61	736	123	119	120	121	7,237
<b>Appropriations Total*</b>	5,957	0	61	736	123	119	120	121	7,237
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Burien Undergrounding - 1st Ave South**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2005  
**Project ID:** 8321      **End Date:** 4th Quarter 2008

**Location:** 1st Ave S/160th St/145th St

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Burien Undergrounding - 1st Avenue South Phase I project provides a financial mechanism for the City of Burien to fund undergrounding during Phase 1 of the 1st Avenue South project through its electrical rates. The costs are recovered in the long run through rates charged in that jurisdiction. The franchise agreement with Burien establishes this financing mechanism.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	282	3,738	21	0	0	0	0	0	4,041
<b>Project Total:</b>	282	3,738	21	0	0	0	0	0	4,041
<b>Fund Appropriations/Allocations</b>									
City Light Fund	282	3,738	21	0	0	0	0	0	4,041
<b>Appropriations Total*</b>	282	3,738	21	0	0	0	0	0	4,041
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		1,979	1,780	0	0	0	0	0	3,759

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**Burien Undergrounding Phase 2**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2008  
**Project ID:** 8401      **End Date:** 4th Quarter 2009

**Location:** 1st Ave S/145th St/139th St

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides a financial mechanism for the City of Burien to fund undergrounding of electrical distribution facilities during Phase 2 of the 1st Avenue South road improvement project. Project costs will be recovered in the long run through adjustments to electrical rates charged to City Light customers in that jurisdiction. This financing mechanism is established pursuant the terms and conditions set forth in the franchise agreement between City Light and the City of Burien.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	3,399	3,656	0	0	0	0	7,055
<b>Project Total:</b>	0	0	3,399	3,656	0	0	0	0	7,055
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	3,399	3,656	0	0	0	0	7,055
<b>Appropriations Total*</b>	0	0	3,399	3,656	0	0	0	0	7,055
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Canal Substation Transformer Replacements**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2010  
**Project ID:** 7778      **End Date:** 4th Quarter 2013

**Location:** 614 NW 45th St

**Neighborhood Plan:** Fremont      **Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Fremont

Two of the substation power transformers will be reviewed to determine dissolved gas concentration, insulation aging, oil leaks, maintenance cost, service stress, and fault-interrupting history. The transformers with the highest failure risk, or those presenting substation capacity limits, will be replaced. These replacements and additions generally take two years overall, with procurement and construction occurring in the first year, and delivery and installation occurring in the second.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	56	1,940	1,952	35	3,983
<b>Project Total:</b>	0	0	0	0	56	1,940	1,952	35	3,983
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	56	1,940	1,952	35	3,983
<b>Appropriations Total*</b>	0	0	0	0	56	1,940	1,952	35	3,983
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	0	0	56	666	1,922	1,339	3,983

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**Cedar Falls Dam - Intake Gate Replacement**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1993  
**Project ID:** 6171      **End Date:** 2nd Quarter 2009

**Location:** 19901 Cedar Falls Rd SE, North Bend, WA 98045

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces the intake gate at the Cedar Falls Masonry Dam, and installs a dam failure emergency warning system. The Cedar Falls watershed provides 70 percent of the City's water supply. The project mitigates any environmental damage that may result from a flood that could occur if the old spillgate malfunctions. Some measures have been completed. Two features are planned for 2007 to complete the project: remote closing capability at the plant, and a system to indicate possible penstock failures. (Penstocks are large pipes that transport water between the dam and the powerhouse.)

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	6,696	217	115	8	0	0	0	0	7,036
<b>Project Total:</b>	6,696	217	115	8	0	0	0	0	7,036
<b>Fund Appropriations/Allocations</b>									
City Light Fund	6,696	217	115	8	0	0	0	0	7,036
<b>Appropriations Total*</b>	6,696	217	115	8	0	0	0	0	7,036
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Cedar Falls Powerhouse – 130VDC & 48VDC Battery Replacement**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2007  
**Project ID:** 6451      **End Date:** 1st Quarter 2008

**Location:** 19901 Cedar Falls Rd SE, North Bend, WA 98045

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces both the 130 VDC and the 48 VDC battery systems and relocates them to a more accessible and safer area for personnel.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	222	1	0	0	0	0	0	223
<b>Project Total:</b>	0	222	1	0	0	0	0	0	223
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	222	1	0	0	0	0	0	223
<b>Appropriations Total*</b>	0	222	1	0	0	0	0	0	223
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Cedar Falls Powerhouse - DC Station Service Upgrade**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 3rd Quarter 2007  
**Project ID:** 6331      **End Date:** 4th Quarter 2009

**Location:** 19901 Cedar Falls Rd SE, North Bend, WA 98045

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides redundant electrical services and backup power to plant systems, preventing generation outages and downramping events that could destroy fish nesting areas. It ensures compliance with the Cedar Falls Habitat Conservation Plan (HCP) by maintaining river flows, and therefore elevation change, to support Chinook salmon habitat. Noncompliance with the HCP could result in large fines or enforcement action.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	14	71	178	0	0	0	0	263
<b>Project Total:</b>	0	14	71	178	0	0	0	0	263
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	14	71	178	0	0	0	0	263
<b>Appropriations Total*</b>	0	14	71	178	0	0	0	0	263
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Cedar Falls Powerhouse - Fish Water Bypass**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2008  
**Project ID:** 6455      **End Date:** 2nd Quarter 2010

**Location:** 19901 Cedar Falls Rd SE, North Bend, WA 98045

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces the existing fishwater bypass system at Cedar Falls Powerhouse with one that is more durable, allowing maintenance of required fish flows without imposing load limitations on the power plant.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	66	493	91	0	0	0	650
<b>Project Total:</b>	0	0	66	493	91	0	0	0	650
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	66	493	91	0	0	0	650
<b>Appropriations Total*</b>	0	0	66	493	91	0	0	0	650
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*



**Cedar Falls Powerhouse - Penstock Stabilization**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2007  
**Project ID:** 6358      **End Date:** 2nd Quarter 2010

**Location:** 19901 Cedar Falls Rd SE, North Bend, WA 98045

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project installs a seismic upgrade of penstock bridges, repairs sagging or broken penstock support saddles, and refurbishes the exterior surfaces to extend the life of two 78-inch diameter steel penstocks, which convey water approximately 7000 feet from Masonry Dam to the Cedar Falls Powerhouse.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	564	914	775	0	0	0	0	2,253
<b>Project Total:</b>	0	564	914	775	0	0	0	0	2,253
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	564	914	775	0	0	0	0	2,253
<b>Appropriations Total*</b>	0	564	914	775	0	0	0	0	2,253
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		564	914	720	55	0	0	0	2,253

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Cedar Falls Powerhouse - Unit 5/6 Generator Protective Relay**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2007  
**Project ID:** 6450      **End Date:** 1st Quarter 2008

**Location:** 19901 Cedar Falls Rd SE, North Bend, WA 98045

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces existing protective relays for generators 5 and 6. The standard protection package with two SEL-300G and a time-synchronization relays will be installed for a complete primary and backup protection system. This redundant protection scheme provides sufficient flexibility to allow one relay to be taken out of service for maintenance without requiring the generator to be removed from service. This is consistent with the standard approached now used at other SCL powerhouses. These relays also require a time-synchronization clock to ensure that precise timing of the sequence of events is available for determining the protection system performance and the root-causes of the electrical system disturbances. Along with upgrading the generator protection packages, the electrical and mechanical lockout relays will also be replaced.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	376	39	0	0	0	0	0	415
<b>Project Total:</b>	0	376	39	0	0	0	0	0	415
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	376	39	0	0	0	0	0	415
<b>Appropriations Total*</b>	0	376	39	0	0	0	0	0	415
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Cedar Falls Powerhouse - Valvehouse Rehabilitation**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2010  
**Project ID:** 6324      **End Date:** 3rd Quarter 2010

**Location:** 19901 Cedar Falls Rd SE, North Bend, WA 98045

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project rehabilitates the Cedar Falls Valvehouse. The exact extent of rehabilitation needed has not been determined, but the job may include replacement of exterior windows, exterior structural improvements, oil spill prevention, and interior remodeling.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	356	0	0	0	356
<b>Project Total:</b>	0	0	0	0	356	0	0	0	356
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	356	0	0	0	356
<b>Appropriations Total*</b>	0	0	0	0	356	0	0	0	356
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Cedar Falls/South Fork Tolt - Minor Improvements Program**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 6406      **End Date:** 4th Quarter 2012

**Location:** 19901 Cedar Falls Rd SE, North Bend, WA 98045

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides financing for unforeseeable, unscheduled capital work. In addition, it funds scheduled, small capital projects that have cost estimates less than \$25,000. This project covers work specifically related to Cedar Falls & South Fork Tolt Facilities.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	28	642	685	479	390	397	403	0	3,024
<b>Project Total:</b>	28	642	685	479	390	397	403	0	3,024
<b>Fund Appropriations/Allocations</b>									
City Light Fund	28	642	685	479	390	397	403	0	3,024
<b>Appropriations Total*</b>	28	642	685	479	390	397	403	0	3,024
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Central Arterial Streetlights Major Maintenance**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2000  
**Project ID:** 8212      **End Date:** 2nd Quarter 2007

**Location:** Citywide

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

This project provides necessary capital improvements and replacements to the City of Seattle's arterial streetlights in the downtown streetlight system. The City transferred ownership of 18,600 arterial streetlights to City Light at the end of 1999. City Light is responsible for maintaining these lights. Of this total, 5000-6000 of these streetlights are on poles installed exclusively for street lighting. Underground conductors feed many of these streetlights. Projects include streetlight pole and foundation work, installation of streetlights, and underground infrastructure replacement. Work is performed under the direction of the Seattle Department of Transportation (SDOT). The work in this project was continued after 2006 as project 8378, Streetlights: Arterial, Residential and Floodlights.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	3,851	1,028	0	0	0	0	0	0	4,879
<b>Project Total:</b>	3,851	1,028	0	0	0	0	0	0	4,879
<b>Fund Appropriations/Allocations</b>									
City Light Fund	3,851	1,028	0	0	0	0	0	0	4,879
<b>Appropriations Total*</b>	3,851	1,028	0	0	0	0	0	0	4,879
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

## Citywide Undergrounding Initiative - City Light

<b>BCL/Program Name:</b> Customer Services & Energy Delivery - CIP	<b>BCL/Program Code:</b> SCL350
<b>Project Type:</b> New Facility	<b>Start Date:</b> 1st Quarter 2008
<b>Project ID:</b> 8403	<b>End Date:</b> Ongoing

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

This project provides funds to move electric distribution service from overhead wires to underground conduits in urban centers and other commercial zones throughout the City. City Light will determine which areas can be undergrounded most cost-effectively. It is anticipated that in many cases undergrounding will be done in coordination with transportation projects or private development. Private developers may participate in the cost of undergrounding adjacent to parcels being developed.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	1,187	7,754	12,870	16,124	16,573	16,851	71,359
<b>Project Total:</b>	0	0	1,187	7,754	12,870	16,124	16,573	16,851	71,359
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	1,187	7,754	12,870	16,124	16,573	16,851	71,359
<b>Appropriations Total*</b>	0	0	1,187	7,754	12,870	16,124	16,573	16,851	71,359
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Communications Improvements**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1979  
**Project ID:** 9009      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides for unforeseen emergent and critical work on City Light's communications systems. This ongoing program provides funding to replace communications components due to failure, changing regulatory and security requirements, and requests from customers or other agencies. The project provides funding on an ongoing basis for CIP projects not budgeted for in the biennial process, such as the the addition of new, urgent communications equipment for SPU at Cedar Falls and other emergencies, such as monitoring ground slides under the transmission towers near Oso, WA. Other recent projects include the Backup Control Center, and the purchase and installation of a video monitor at the SCC for monitoring the safety camera at Cedar Falls Dam.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	8,077	339	352	267	272	278	285	289	10,159
<b>Project Total:</b>	8,077	339	352	267	272	278	285	289	10,159
<b>Fund Appropriations/Allocations</b>									
City Light Fund	8,077	339	352	267	272	278	285	289	10,159
<b>Appropriations Total*</b>	8,077	339	352	267	272	278	285	289	10,159
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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## Complex Billing System

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 3rd Quarter 2007  
**Project ID:** 9932      **End Date:** 4th Quarter 2008

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces the Industrial-Commercial Subsidiary Billing System (ICSB), which bills the Utility's 150 largest accounts and generates annual revenues of more than \$160 million. The project will also replace the existing meter data management system, enabling better systems integration and positioning the Utility for expanded use of automated meter reading. ICSB is aging and has significant limitations. Replacing it with a new system will enable and promote more efficient, reliable billing, and enhance customer service.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	655	267	0	0	0	0	0	922
<b>Project Total:</b>	0	655	267	0	0	0	0	0	922
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	655	267	0	0	0	0	0	922
<b>Appropriations Total*</b>	0	655	267	0	0	0	0	0	922
<b>O &amp; M Costs (Savings)</b>			62	62	62	62	62	(3)	307

## Consolidated Customer Service System

**BCL/Program Name:** Financial Services - CIP      **BCL/Program Code:** SCL550  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1995  
**Project ID:** 9910      **End Date:** 2nd Quarter 2007

**Location:** 700 5th Ave

**Neighborhood Plan:** Commercial Core      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Downtown      **Urban Village:** Commercial Core

The Consolidated Customer Service System (CCSS) provides customer information and billing for electrical services through City Light, and for water, wastewater, and solid waste and recycling services through Seattle Public Utilities. At the core of the system is the Banner commercial software, which was customized for City Light and Seattle Public Utilities use.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	56,749	53	0	0	0	0	0	0	56,802
<b>Project Total:</b>	56,749	53	0	0	0	0	0	0	56,802
<b>Fund Appropriations/Allocations</b>									
City Light Fund	56,749	53	0	0	0	0	0	0	56,802
<b>Appropriations Total*</b>	56,749	53	0	0	0	0	0	0	56,802
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Customer Electrical Service Installation Process Implementat**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2008  
**Project ID:** 9939      **End Date:** 4th Quarter 2009

**Location:** 700 5th Ave

**Neighborhood Plan:** Commercial Core      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Downtown      **Urban Village:** Commercial Core

This project enhances the current electric service installation process for all type of new and enlarged electric services. This project provides financing for smaller capital projects, including minor information technology (IT) enhancements.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	155	53	0	0	0	0	208
<b>Project Total:</b>	0	0	155	53	0	0	0	0	208
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	155	53	0	0	0	0	208
<b>Appropriations Total*</b>	0	0	155	53	0	0	0	0	208
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Dallas Ave. 26 kV Crossing**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 8322      **End Date:** 4th Quarter 2009

**Location:** Dallas Ave S/14th Ave S

**Neighborhood Plan:** Duwamish      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Greater Duwamish      **Urban Village:** Duwamish

Due to an unsafe structural condition, the river crossing of Feeder 2675 and Feeder 2686 has been out since October, 2003. This project reinstalls two 26kV feeders across the Duwamish River. This crossing backs up the Cambridge Corridor Crossing, providing redundant power supply to the area along E. Marginal Way S. The area has many large industrial accounts, including Jorgenson Steel, Kenworth Trucking, and a number of Boeing plants. Major Environmental issues on both banks of the river have delayed the project in the past.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	380	0	834	964	0	0	0	0	2,178
<b>Project Total:</b>	380	0	834	964	0	0	0	0	2,178
<b>Fund Appropriations/Allocations</b>									
City Light Fund	380	0	834	964	0	0	0	0	2,178
<b>Appropriations Total*</b>	380	0	834	964	0	0	0	0	2,178
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Diablo Camp - Sewer System Rehabilitation**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2000  
**Project ID:** 6232      **End Date:** 2nd Quarter 2009

**Location:** Milepost 126 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces or repairs numerous sewer pipe breaks, leaks, and sags in the combined Diablo sewer/drainage collection system, to be located at the Diablo Dam site. This project eliminates potential overloads in the sewage treatment plant that can cause pollution of the Skagit River and soil contamination. This project is contingent on forthcoming recommendations regarding the Skagit Housing Plan. If a decision is made to abandon the housing in that area, the sewage system will be abandoned and removed, thus rendering this project unnecessary.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	1	0	617	37	0	0	0	0	655
<b>Project Total:</b>	1	0	617	37	0	0	0	0	655
<b>Fund Appropriations/Allocations</b>									
City Light Fund	1	0	617	37	0	0	0	0	655
<b>Appropriations Total*</b>	1	0	617	37	0	0	0	0	655
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Diablo Facility - Minor Improvements Program**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2002  
**Project ID:** 6403      **End Date:** 4th Quarter 2012

**Location:** Milepost 126 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides financing for unforeseeable, unscheduled capital work. In addition, it funds scheduled, small capital projects that have cost estimates less than \$25,000. This project covers work specifically related to Diablo Facilities.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	270	1,013	561	1,171	660	553	559	0	4,787
<b>Project Total:</b>	270	1,013	561	1,171	660	553	559	0	4,787
<b>Fund Appropriations/Allocations</b>									
City Light Fund	270	1,013	561	1,171	660	553	559	0	4,787
<b>Appropriations Total*</b>	270	1,013	561	1,171	660	553	559	0	4,787
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Diablo Powerhouse - 240kV Bus Tap for Station Service**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 3rd Quarter 2009  
**Project ID:** 6413      **End Date:** 3rd Quarter 2011

**Location:** Milepost 126 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Diablo Powerhouse relies on the 26 kV transmission line between Diablo and Ross for backup station service power. This project provides a bus tap, transformer, and other equipment to enable the powerhouse to tap into the 240 kV ring bus in the Diablo Switchyard.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	74	1,221	591	0	0	1,886
<b>Project Total:</b>	0	0	0	74	1,221	591	0	0	1,886
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	74	1,221	591	0	0	1,886
<b>Appropriations Total*</b>	0	0	0	74	1,221	591	0	0	1,886
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	0	74	142	1,670	0	0	1,886

**Diablo Powerhouse - Control and Power Cabling Replacement**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2008  
**Project ID:** 6363      **End Date:** 2nd Quarter 2010

**Location:** Milepost 126 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces aging control and power cables in the Diablo Powerhouse with new, more reliable cables. When completed, this work will: reduce troubleshooting time spent tracing ground faults; ease installation of future circuits and equipment; and make maintenance more efficient on generators providing 9 percent of City Light's generating capacity.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	18	528	97	0	0	0	643
<b>Project Total:</b>	0	0	18	528	97	0	0	0	643
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	18	528	97	0	0	0	643
<b>Appropriations Total*</b>	0	0	18	528	97	0	0	0	643
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Diablo Powerhouse - DC Lighting Systems Upgrade**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2009  
**Project ID:** 6365      **End Date:** 1st Quarter 2010

**Location:** Milepost 126 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces out-of-date AC/DC lighting systems at Diablo Powerhouse with more energy-efficient systems.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	301	17	0	0	0	318
<b>Project Total:</b>	0	0	0	301	17	0	0	0	318
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	301	17	0	0	0	318
<b>Appropriations Total*</b>	0	0	0	301	17	0	0	0	318
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Diablo Powerhouse - Rebuild Generator Unit 31**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2007  
**Project ID:** 6422      **End Date:** 2nd Quarter 2013

**Location:** Milepost 126 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project is part of the Utility's Generator Rebuild Program. The program rebuilds ten generators (accounting for 70 percent of City Light's generating capability) by the end of 2013. This project rebuilds Generator 31 at Diablo Powerhouse. This generator provides 4.4 percent of the total SCL power generation. The project has been deferred until 2011 because an investigation determined that the generator is in adequate condition, and can be delayed.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	4,701	0	0	0	6,953	2,301	479	14,434
<b>Project Total:</b>	0	4,701	0	0	0	6,953	2,301	479	14,434
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	4,701	0	0	0	6,953	2,301	479	14,434
<b>Appropriations Total*</b>	0	4,701	0	0	0	6,953	2,301	479	14,434
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		4,701	0	0	0	0	8,923	810	14,434

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**Diablo Powerhouse - Rebuild Generator Unit 32**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2012  
**Project ID:** 6423      **End Date:** 4th Quarter 2014

**Location:** Milepost 126 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project is part of the Utility's Generator Rebuild Program. The program rebuilds ten generators (accounting for 70 percent of City Light's generating capability) by the end of 2013. This project rebuilds Generator 32 at Diablo Powerhouse.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	0	0	5,181	1,276	6,457
<b>Project Total:</b>	0	0	0	0	0	0	5,181	1,276	6,457
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	0	0	5,181	1,276	6,457
<b>Appropriations Total*</b>	0	0	0	0	0	0	5,181	1,276	6,457
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	0	0	0	0	97	6,022	6,119

**Diablo Powerhouse - Replace 5 kV Switchgear**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 6364      **End Date:** 3rd Quarter 2008

**Location:** Milepost 126 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces the existing 5 kV switchgear in the Diablo Powerhouse with a new 5 kV switchgear system. This project enhances switching capability, provides protective relaying, and replaces aging high-voltage circuit breakers.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	253	1,088	614	0	0	0	0	0	1,955
<b>Project Total:</b>	253	1,088	614	0	0	0	0	0	1,955
<b>Fund Appropriations/Allocations</b>									
City Light Fund	253	1,088	614	0	0	0	0	0	1,955
<b>Appropriations Total*</b>	253	1,088	614	0	0	0	0	0	1,955
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Diablo Powerhouse - Replace Units 31-32 Governors**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2009  
**Project ID:** 6366      **End Date:** 4th Quarter 2012

**Location:** Milepost 126 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces the governors on Generator Units 31 and 32. The governor is the part of the turbine/generator that controls the amount of water going through the turbine, thereby controlling the amount of power generated.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	83	457	664	198	0	1,402
<b>Project Total:</b>	0	0	0	83	457	664	198	0	1,402
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	83	457	664	198	0	1,402
<b>Appropriations Total*</b>	0	0	0	83	457	664	198	0	1,402
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Diablo Powerhouse - Units 31-32 Current-Voltage Instruments**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2009  
**Project ID:** 6416      **End Date:** 2nd Quarter 2010

**Location:** Milepost 126 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project upgrades the current and voltage measurement, and control instruments for the main generation units at Diablo Powerhouse by purchasing and installing new potential transformers and current transformers.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	164	35	0	0	0	199
<b>Project Total:</b>	0	0	0	164	35	0	0	0	199
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	164	35	0	0	0	199
<b>Appropriations Total*</b>	0	0	0	164	35	0	0	0	199
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Diablo Supv Control of 240kV Bkrs & Bothell Line Disc Switch**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2007  
**Project ID:** 6417      **End Date:** 3rd Quarter 2010

**Location:** Milepost 126 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces the existing breaker control switches with electrically operated control switch relays, and retrofits three line disconnect switches with motor operators, in order to provide remote control operations of the switchyard breakers and the three Bothell line disconnect switches.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	146	0	138	182	0	0	0	466
<b>Project Total:</b>	0	146	0	138	182	0	0	0	466
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	146	0	138	182	0	0	0	466
<b>Appropriations Total*</b>	0	146	0	138	182	0	0	0	466
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Diablo Switchyard - Resurfacing**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 6361      **End Date:** 1st Quarter 2008

**Location:** 502 Diablo Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces the Diablo Switchyard aggregate surfacing for electrical safety purposes. Work to be performed by a public works contractor, and will include excavation and disposal of existing surface rock, and installation of replacement materials in its place.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	56	483	77	0	0	0	0	0	616
<b>Project Total:</b>	56	483	77	0	0	0	0	0	616
<b>Fund Appropriations/Allocations</b>									
City Light Fund	56	483	77	0	0	0	0	0	616
<b>Appropriations Total*</b>	56	483	77	0	0	0	0	0	616
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Diablo Water System Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2003  
**Project ID:** 6304      **End Date:** 1st Quarter 2010

**Location:** Milepost 126 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project drills and develops a new well near the existing well that will be decommissioned. The existing well had recharge problems in 1989 and 1994, in part due to severe corrosion of the well casing and screen. A video inspection in 1994 revealed corrosion beyond rehabilitation. In 1994, the existing well was estimated to have a useful life of approximately 10 years.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	162	135	11	119	5	0	0	0	432
<b>Project Total:</b>	162	135	11	119	5	0	0	0	432
<b>Fund Appropriations/Allocations</b>									
City Light Fund	162	135	11	119	5	0	0	0	432
<b>Appropriations Total*</b>	162	135	11	119	5	0	0	0	432
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Disaster Recovery/Business Continuity**

**BCL/Program Name:** Financial Services - CIP      **BCL/Program Code:** SCL550  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2001  
**Project ID:** 9925      **End Date:** 4th Quarter 2008

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project installs servers, communication equipment, and software to host critical City Light applications during and after an emergency or disaster. This project ensures continuity of information technology services, and enables continuity of business operations. Site selection is currently underway. The increased funds requested for 2008 support the Continuity of Operations Plan, a communications design by consultants, uninterruptible power supplies, and servers.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	385	900	1,016	0	0	0	0	0	2,301
<b>Project Total:</b>	385	900	1,016	0	0	0	0	0	2,301
<b>Fund Appropriations/Allocations</b>									
City Light Fund	385	900	1,016	0	0	0	0	0	2,301
<b>Appropriations Total*</b>	385	900	1,016	0	0	0	0	0	2,301
<b>O &amp; M Costs (Savings)</b>			78	21	21	21	21	21	183

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Distribution Area Communications Networks**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 1999  
**Project ID:** 9307      **End Date:** 4th Quarter 2013

**Location:** Citywide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project installs fiber cable and equipment to all City Light dams, substations and service centers to create a secure, reliable, fast and redundant digital communications system for operations command and control. The fiber infrastructure provides a secure path for power distribution system control and dispatch, Energy Management System data, and other City Light communications. This project also supports Substation Automation, Distribution Automation, Distributed Generation, and automated meter reading projects.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	6,462	858	978	633	633	654	676	687	11,581
<b>Project Total:</b>	6,462	858	978	633	633	654	676	687	11,581
<b>Fund Appropriations/Allocations</b>									
City Light Fund	6,462	858	978	633	633	654	676	687	11,581
<b>Appropriations Total*</b>	6,462	858	978	633	633	654	676	687	11,581
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**East Pine to South & Creston Load Transfer**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 3rd Quarter 2007  
**Project ID:** 8359      **End Date:** 4th Quarter 2009

**Location:** 1555 23rd Ave

**Neighborhood Plan:** Central Area      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** East District      **Urban Village:** Not in an Urban Village

This project transfers 30 Megavoltamperes (MVA) from the East Pine Substation to the South and Creston Nelson substations. This involves the construction or upgrade of several miles of mainstem feeder lines, and the installation of switches at various points along those feeders to transfer the load and relieve East Pine Substation.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	2,883	3,173	3,340	0	0	0	0	9,396
<b>Project Total:</b>	0	2,883	3,173	3,340	0	0	0	0	9,396
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	2,883	3,173	3,340	0	0	0	0	9,396
<b>Appropriations Total*</b>	0	2,883	3,173	3,340	0	0	0	0	9,396
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		2,216	3,840	3,340	0	0	0	0	9,396

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**Endangered Species Act Mitigation**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2000  
**Project ID:** 6990      **End Date:** 4th Quarter 2013

**Location:** Outside the City of Seattle

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project protects and restores wildlife habitat in the Skagit and Tolt basins to implement the Endangered Species Program for recovery of listed species (chinook salmon, bull trout and steelhead).

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	5,552	1,424	559	588	598	610	544	552	10,427
<b>Project Total:</b>	5,552	1,424	559	588	598	610	544	552	10,427
<b>Fund Appropriations/Allocations</b>									
City Light Fund	5,552	1,424	559	588	598	610	544	552	10,427
<b>Appropriations Total*</b>	5,552	1,424	559	588	598	610	544	552	10,427
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		960	1,023	588	598	610	544	552	4,875

**Energy Conservation**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2007  
**Project ID:** 9320      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project installs improvements at SCL facilities directed at reducing energy consumption. Included are generation sites, service centers, and substations. With documented savings, some project costs may be recovered from Bonneville.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	336	350	341	350	359	367	373	2,476
<b>Project Total:</b>	0	336	350	341	350	359	367	373	2,476
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	336	350	341	350	359	367	373	2,476
<b>Appropriations Total*</b>	0	336	350	341	350	359	367	373	2,476
<b>O &amp; M Costs (Savings)</b>			(16)	(27)	(39)	(51)	0	0	-133

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**Environmental Safeguarding and Remediation of Facilities**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1997  
**Project ID:** 9152      **End Date:** 4th Quarter 2013

**Location:** Outside the City of Seattle

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

This project prevents air and water pollution at City Light facilities. This project implements cost-appropriate solutions for identified environmental programs, and provides facilities for meeting environmental and remediation concerns. Typical projects include ventilation for painting operations, storage equipment for toxic material, containment provisions to provide protection in the event of a spill or leak, and handling equipment to enable safe movement of hazardous items. In 2008, funding is provided to support remediation at the Diagonal Storage Yard by South Service Center, which is part of the Save Our Waters initiative.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	666	0	103	42	43	167	45	46	1,112
<b>Project Total:</b>	666	0	103	42	43	167	45	46	1,112
<b>Fund Appropriations/Allocations</b>									
City Light Fund	666	0	103	42	43	167	45	46	1,112
<b>Appropriations Total*</b>	666	0	103	42	43	167	45	46	1,112
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Facilities Infrastructure Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1997  
**Project ID:** 9156      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

This project provides funding for upgrading or replacing structural, electrical or mechanical systems or other components critical to building operations, sometimes referred to as "base building systems," plus site development items. Work under this project may include major plumbing replacements, HVAC-related systems, power distribution systems, tanks, elevators, fire-suppression systems, drainage systems, exterior and interior lighting, landscaping, irrigation, paving, stairs, and sidewalks.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	1,186	124	243	51	53	54	55	56	1,822
<b>Project Total:</b>	1,186	124	243	51	53	54	55	56	1,822
<b>Fund Appropriations/Allocations</b>									
City Light Fund	1,186	124	243	51	53	54	55	56	1,822
<b>Appropriations Total*</b>	1,186	124	243	51	53	54	55	56	1,822
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Facilities Regulatory Compliance**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1999  
**Project ID:** 9151      **End Date:** 4th Quarter 2013

**Location:** 500 Newhalem Creek Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project executes legally mandated improvements, and reinforces City Light's leadership position on safety, environmental, and accessibility initiatives. City Light's public facilities, as well as many workspaces, are subject to the regulations outlined in the Americans with Disabilities Act (ADA). Other legally driven projects may include air conditioning retrofits or replacements to eliminate outlawed refrigerants, and hazardous material abatement or containment.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	8	0	0	36	37	38	39	40	198
<b>Project Total:</b>	8	0	0	36	37	38	39	40	198
<b>Fund Appropriations/Allocations</b>									
City Light Fund	8	0	0	36	37	38	39	40	198
<b>Appropriations Total*</b>	8	0	0	36	37	38	39	40	198
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Feeder 2693 Upgrade**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 3rd Quarter 2007  
**Project ID:** 8357      **End Date:** 4th Quarter 2007

**Location:** Tukwila

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project upgrades feeder #2693 from 600 amperes to 1200 amperes to accommodate the additional loads planned for the Sabey Corporation's Intergate East Internet Center in Tukwila. The customer has agreed to pay for this upgrade.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	1,902	0	0	0	0	0	0	1,902
<b>Project Total:</b>	0	1,902	0	0	0	0	0	0	1,902
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	1,902	0	0	0	0	0	0	1,902
<b>Appropriations Total*</b>	0	1,902	0	0	0	0	0	0	1,902
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**First Hill Network**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2002  
**Project ID:** 8301      **End Date:** 4th Quarter 2013

**Location:** 1100 Madison St  
**Neighborhood Plan:** First Hill      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** East District      **Urban Village:** First Hill

This project provides a programmatic approach for comprehensive management of underground network assets (electrical and in some cases civil) serving customers in the First Hill area. This project funds annual work required, such as feeder balancing, engineering analysis to determine system feeder assignments for new services, and replacement of cables that fail while in service.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	5,188	0	820	1,148	1,180	1,213	1,243	1,306	12,098
<b>Project Total:</b>	5,188	0	820	1,148	1,180	1,213	1,243	1,306	12,098
<b>Fund Appropriations/Allocations</b>									
City Light Fund	5,188	0	820	1,148	1,180	1,213	1,243	1,306	12,098
<b>Appropriations Total*</b>	5,188	0	820	1,148	1,180	1,213	1,243	1,306	12,098
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Generation Federal Reliability Standards Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 4th Quarter 2007  
**Project ID:** 6470      **End Date:** 1st Quarter 2013

**Location:** 500 Newhalem Creek Rd, Marblemount, WA 98267  
**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This ongoing project provides compliance with emergent power production (Generation) regional reliability standards mandated by the North American Electric Reliability Corporation (NERC) and its regional compliance partner, the Western Electricity Coordinating Council (WECC). Typical improvements may include but are not limited to power system stabilizers, generator and control system testing equipment, cyber security equipment, and system disturbance monitoring equipment.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	6	213	221	227	233	237	1,137
<b>Project Total:</b>	0	0	6	213	221	227	233	237	1,137
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	6	213	221	227	233	237	1,137
<b>Appropriations Total*</b>	0	0	6	213	221	227	233	237	1,137
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Geographic Information System Technology Migration**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 9934      **End Date:** 4th Quarter 2008

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides a geographic model of City Light's Distribution System, automated mapping, and CAD design and drawing capabilities. This project: migrates City Light's GIS applications to current versions of Environmental Systems Research Institute (ESRI) GIS software, implements Oracle spatial database features, and enhances AutoCAD interoperability with the spatial data. City Light's GIS technology will be upgraded in tandem with the Citywide GIS, which is undergoing a major technology upgrade. These City-wide base layers are incorporated into City Light's GIS applications so they must remain technically compatible.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	828	1,700	14	0	0	0	0	0	2,542
<b>Project Total:</b>	828	1,700	14	0	0	0	0	0	2,542
<b>Fund Appropriations/Allocations</b>									
City Light Fund	828	1,700	14	0	0	0	0	0	2,542
<b>Appropriations Total*</b>	828	1,700	14	0	0	0	0	0	2,542
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		1,357	357	0	0	0	0	0	1,714

**Gorge Dam - Spillgate Control Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2001  
**Project ID:** 6222      **End Date:** 3rd Quarter 2008

**Location:** Milepost 121 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project designs, procures, and installs equipment and materials needed to assure reliable control of the two Gorge Dam spillgates, as directed by the System Control Center.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	106	149	146	0	0	0	0	0	401
<b>Project Total:</b>	106	149	146	0	0	0	0	0	401
<b>Fund Appropriations/Allocations</b>									
City Light Fund	106	149	146	0	0	0	0	0	401
<b>Appropriations Total*</b>	106	149	146	0	0	0	0	0	401
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Gorge Dam - Spillgate Rehabilitation**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2009  
**Project ID:** 6221      **End Date:** 1st Quarter 2011

**Location:** Milepost 121 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

Gorge Dam has two 47-by-50 foot vertical-lift painted steel spillgates that regulate flow during floods. This project monitors, evaluates and develops a work plan to replace deteriorating bolts securing the various components of the spillgates, makes other structural improvements to enhance structural integrity, and repairs or replaces the deteriorated surface coating.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	66	49	19	0	0	134
<b>Project Total:</b>	0	0	0	66	49	19	0	0	134
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	66	49	19	0	0	134
<b>Appropriations Total*</b>	0	0	0	66	49	19	0	0	134
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Gorge Facility - Minor Improvements Program**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 6404      **End Date:** 4th Quarter 2012

**Location:** Milepost 121 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides financing for unforeseeable, unscheduled capital work. In addition, it funds scheduled, small capital projects that have cost estimates less than \$25,000. This project covers work specifically related to Gorge Facilities.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	578	774	404	575	527	539	547	0	3,944
<b>Project Total:</b>	578	774	404	575	527	539	547	0	3,944
<b>Fund Appropriations/Allocations</b>									
City Light Fund	578	774	404	575	527	539	547	0	3,944
<b>Appropriations Total*</b>	578	774	404	575	527	539	547	0	3,944
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Gorge Facility Second Tunnel Installation**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 6302      **End Date:** 4th Quarter 2014

**Location:** Milepost 121 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project bores and installs a two-mile tunnel adjacent to the existing tunnel. At Gorge, a parallel tunnel will lower water velocity in the two tunnels, increasing overall plant efficiency from 70.2% to 77.6%, without any change in water flow or plant operations. This project enhances output production through efficiency improvements, adding 18 MW of capacity to the Gorge plant, and increasing annual generation by about 45,000 MWh.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	46	479	2,194	89	34,023	5,728	1,250	43,809
<b>Project Total:</b>	0	46	479	2,194	89	34,023	5,728	1,250	43,809
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	46	479	2,194	89	34,023	5,728	1,250	43,809
<b>Appropriations Total*</b>	0	46	479	2,194	89	34,023	5,728	1,250	43,809
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	345	0	345
<b>Spending Plan</b>		46	479	1,636	489	3,775	31,333	1,385	39,143

**Gorge Powerhouse - AC/DC System Upgrade**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2000  
**Project ID:** 6207      **End Date:** 4th Quarter 2009

**Location:** Milepost 121 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces AC and DC distribution panels, control cabling, and power cabling to improve reliability that affects 9.5% of City Light's generating capacity. The project ties DC control and alarm circuits to individual generators and provides AC station service grounding. The DC portion of the work was completed in 2006. The AC portion begins in 2007.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	912	447	327	334	0	0	0	0	2,020
<b>Project Total:</b>	912	447	327	334	0	0	0	0	2,020
<b>Fund Appropriations/Allocations</b>									
City Light Fund	912	447	327	334	0	0	0	0	2,020
<b>Appropriations Total*</b>	912	447	327	334	0	0	0	0	2,020
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.



**Gorge Powerhouse - Control and Power Cabling Replacement**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 2nd Quarter 2008  
**Project ID:** 6328      **End Date:** 4th Quarter 2009

**Location:** Milepost 121 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces deteriorating control and power cabling systems within the Gorge Powerhouse with new, higher-capacity cables. When completed, this work will reduce troubleshooting time that is spent tracing ground faults, ease installation of future circuits and equipment, and increase generator availability and energy production on generators providing 9.5% of City Light's generating capacity.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	63	579	0	0	0	0	642
<b>Project Total:</b>	0	0	63	579	0	0	0	0	642
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	63	579	0	0	0	0	642
<b>Appropriations Total*</b>	0	0	63	579	0	0	0	0	642
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Gorge Powerhouse - Fire Protection Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2010  
**Project ID:** 6326      **End Date:** 4th Quarter 2016

**Location:** Milepost 121 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project designs and installs a water spray generator fire suppression system for Generator 24 to coincide with the turbine overhaul. The system design will be modeled after the Ross generator fire suppression modification project. The project scope includes piping, valving, and nozzles for a water delivery system, as well as a new control system for detection, alarming, and system initiation.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	83	185	297	129	694
<b>Project Total:</b>	0	0	0	0	83	185	297	129	694
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	83	185	297	129	694
<b>Appropriations Total*</b>	0	0	0	0	83	185	297	129	694
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Gorge Powerhouse - Transformer Bank 10 Replacement**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2000  
**Project ID:** 6224      **End Date:** 4th Quarter 2008

**Location:** Milepost 121 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces the Powerhouse's existing oil-insulated transformer and its conductors with dry transformers and conductors, as recommended to ensure reliability and prevent environmental hazards.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	31	237	238	0	0	0	0	0	506
<b>Project Total:</b>	31	237	238	0	0	0	0	0	506
<b>Fund Appropriations/Allocations</b>									
City Light Fund	31	237	238	0	0	0	0	0	506
<b>Appropriations Total*</b>	31	237	238	0	0	0	0	0	506
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Gorge Powerhouse - Transformer Bank 24 Replacement**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2003  
**Project ID:** 6371      **End Date:** 2nd Quarter 2007

**Location:** Milepost 121 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project purchased (in 2005) and installed (in 2006) three single-phase transformers for Bank 24 using the same specification that are used for the Gorge Powerhouse Transformer Bank 22 Replacement project (PE 6370). This bank affects 9.5% of City Light's generating capacity.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	1,623	836	0	0	0	0	0	0	2,459
<b>Project Total:</b>	1,623	836	0	0	0	0	0	0	2,459
<b>Fund Appropriations/Allocations</b>									
City Light Fund	1,623	836	0	0	0	0	0	0	2,459
<b>Appropriations Total*</b>	1,623	836	0	0	0	0	0	0	2,459
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Gorge Powerhouse Unit 24 Turbine Runner Replacement**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1999  
**Project ID:** 6219      **End Date:** 2nd Quarter 2007

**Location:** Milepost 121 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This generator provides 4.4 percent of City Light's generating capacity. This project refurbishes the turbine to "as-new" condition. Work includes installing a new turbine runner (waterwheel), wicket gates (large, complex valves that control the flow of water into the generator), facing plates, seal rings, self-lubricating bushings, and replacement or rehabilitation of other minor turbine components. This project increases generator efficiency by 2 percent, and upon completion, the net present value of the increased revenue over the project's 30-year life is estimated at \$7.7 million.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	6,691	229	0	0	0	0	0	0	6,920
<b>Project Total:</b>	6,691	229	0	0	0	0	0	0	6,920
<b>Fund Appropriations/Allocations</b>									
City Light Fund	6,691	229	0	0	0	0	0	0	6,920
<b>Appropriations Total*</b>	6,691	229	0	0	0	0	0	0	6,920
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Gorge Switchyard - Resurfacing**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 6362      **End Date:** 2nd Quarter 2008

**Location:** Milepost 121 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces the Gorge Switchyard aggregate surfacing for electrical worker safety purposes. Work performed by a public works contractor will include excavation and disposal of the existing surface rock, and installation of new replacement materials in its place.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	46	519	93	0	0	0	0	0	658
<b>Project Total:</b>	46	519	93	0	0	0	0	0	658
<b>Fund Appropriations/Allocations</b>									
City Light Fund	46	519	93	0	0	0	0	0	658
<b>Appropriations Total*</b>	46	519	93	0	0	0	0	0	658
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Information Technology Infrastructure**

**BCL/Program Name:** Financial Services - CIP  
**Project Type:** Rehabilitation or Restoration  
**Project ID:** 9915

**BCL/Program Code:** SCL550  
**Start Date:** 1st Quarter 1995  
**End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan  
**Neighborhood District:** Not in a Neighborhood District

**Neighborhood Plan Matrix:** N/A  
**Urban Village:** Not in an Urban Village

This project funds capital investments needed to support the Utility's information technology infrastructure. This infrastructure provides applications, data storage, and print services to the utility. These activities include GroupWise, remote connectivity, E-tagging, the City InWeb and network, common and City Light applications, UNIX services, and infrastructure change management. The infrastructure is upgraded/replaced based upon a combination of factors, such as maintenance schedules, equipment warranties, availability of vendor support, Gartner recommendations, application growth, and security demands. This project maintains a stable, reliable computing environment at the utility. Components purchased by this project include servers, network and communications equipment, disk storage and application/operating system software.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	26,867	4,409	2,998	2,916	3,013	3,777	3,324	3,370	50,674
<b>Project Total:</b>	26,867	4,409	2,998	2,916	3,013	3,777	3,324	3,370	50,674
<b>Fund Appropriations/Allocations</b>									
City Light Fund	26,867	4,409	2,998	2,916	3,013	3,777	3,324	3,370	50,674
<b>Appropriations Total*</b>	26,867	4,409	2,998	2,916	3,013	3,777	3,324	3,370	50,674
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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## Innis Arden Underground Residential Distribution Rebuild

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2009  
**Project ID:** 8385      **End Date:** 4th Quarter 2010

**Location:** NW 190th St & 17th Ave W/NW 167th & 8th Ave W

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project rebuilds the underground distribution system in Innis Arden. The project replaces increasingly failure-prone aging equipment and direct buried cables with an encased duct bank system that improves service reliability, customer satisfaction, economic operating efficiencies, and safety. Service reliability improvements begin in 2007 and are fully realized in 2008 when construction is complete. Service life for the new system is estimated at 40 years. This is a continuation of work from former Project 8302.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	1,015	428	0	0	0	1,443
<b>Project Total:</b>	0	0	0	1,015	428	0	0	0	1,443
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	1,015	428	0	0	0	1,443
<b>Appropriations Total*</b>	0	0	0	1,015	428	0	0	0	1,443
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

## Interbay Substation - Development

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2000  
**Project ID:** 7756      **End Date:** 4th Quarter 2017

**Location:** 17th W/W Bertona

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** 99  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project plans, designs, and constructs a 26 kV substation in the Interbay area. City Light acquired land at 17th West and West Bertona in 2001 and planning has continued since that time. City Light intends to install 2-100 MVA transformers into a facility large enough to accommodate a third transformer at the site if required in the future.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	2,489	0	0	0	0	0	0	0	2,489
<b>Project Total:</b>	2,489	0	0	0	0	0	0	0	2,489
<b>Fund Appropriations/Allocations</b>									
City Light Fund	2,489	0	0	0	0	0	0	0	2,489
<b>Appropriations Total*</b>	2,489	0	0	0	0	0	0	0	2,489
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	N/C	0

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**Ladder Creek Garden Irrigation and Illumination**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2001  
**Project ID:** 6234      **End Date:** 3rd Quarter 2008

**Location:** Milepost 126 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides an assured supply of water to Ladder Creek Garden, including an irrigation system and water features, such as pools and fountains. The electrical upgrade provides improved trail and creek lighting in keeping with the historical conditions. This project brings Seattle City Light into compliance with the Skagit FERC license requirements.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	459	567	747	0	0	0	0	0	1,773
<b>Project Total:</b>	459	567	747	0	0	0	0	0	1,773
<b>Fund Appropriations/Allocations</b>									
City Light Fund	459	567	747	0	0	0	0	0	1,773
<b>Appropriations Total*</b>	459	567	747	0	0	0	0	0	1,773
<b>O &amp; M Costs (Savings)</b>			2	4	4	4	4	0	18

**Lake Forest Park Feeder Rehabilitation**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2007  
**Project ID:** 8384      **End Date:** 4th Quarter 2010

**Location:** N 205th & I-5/N 145th & 61st Ave NE

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project rehabilitates the aging distribution system in Lake Forest Park. The project is based on the results of a 2006 engineering survey that determined the specific system rehabilitation requirements to yield a highly reliable and cost effective distribution system. This project services one feeder each year for four years, and includes enhanced levels of tree trimming to support the electrical construction work during and after project completion. Service life for the new system is estimated at 30 years.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	1,147	1,287	1,374	1,341	0	0	0	5,149
<b>Project Total:</b>	0	1,147	1,287	1,374	1,341	0	0	0	5,149
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	1,147	1,287	1,374	1,341	0	0	0	5,149
<b>Appropriations Total*</b>	0	1,147	1,287	1,374	1,341	0	0	0	5,149
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Large Overhead and Underground Services**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 8365      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides large size electric power service connections from Seattle City Light's distribution system to the customer's meter for power requirements of 3 MVA or larger and 26 kV radial service. This project also responds to the customer's cost, schedule and design interests. Most of this related work is billable to the customer. This project is a continuation of projects 8120, North Services - Overhead and Underground, and 8121, South Services - Overhead and Underground, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	41,296	3,769	3,647	3,819	3,915	4,007	4,102	4,167	68,722
<b>Project Total:</b>	41,296	3,769	3,647	3,819	3,915	4,007	4,102	4,167	68,722
<b>Fund Appropriations/Allocations</b>									
City Light Fund	41,296	3,769	3,647	3,819	3,915	4,007	4,102	4,167	68,722
<b>Appropriations Total*</b>	41,296	3,769	3,647	3,819	3,915	4,007	4,102	4,167	68,722
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Laurelhurst Underground Rebuild**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2007  
**Project ID:** 8373      **End Date:** 4th Quarter 2014

**Location:** 45th St/38th St

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Northeast      **Urban Village:** Not in an Urban Village

This project completes the final three phases of a nine phase rebuilding of the underground distribution system in Laurelhurst. It replaces increasingly failure-prone aging 4 kV equipment and direct buried cables with a buried conduit system that improves service reliability, customer satisfaction, economic operating efficiencies, and safety. Service reliability improvements are fully realized in 2011 when construction is complete. Service life for the new system is estimated at 40 years. This is a continuation of work from former Project 8124 (North 26kV Conversion).

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	751	2,036	1,746	3,851	4,743	4,608	1,103	18,838
<b>Project Total:</b>	0	751	2,036	1,746	3,851	4,743	4,608	1,103	18,838
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	751	2,036	1,746	3,851	4,743	4,608	1,103	18,838
<b>Appropriations Total*</b>	0	751	2,036	1,746	3,851	4,743	4,608	1,103	18,838
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Leschi Underground Residential Distribution Rebuild**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2007  
**Project ID:** 8354      **End Date:** 4th Quarter 2012

**Location:** 29th Ave S/Lakeside Ave S

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Central      **Urban Village:** Not in an Urban Village

This project rebuilds the underground distribution system in the Leschi neighborhood to prevent or reduce unplanned outages caused by failure of the aging system. This direct-buried (i.e., not encased in conduit) system is at the end of its life span, and is failing.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	1,826	3,827	3,644	3,753	3,731	1,180	0	17,961
<b>Project Total:</b>	0	1,826	3,827	3,644	3,753	3,731	1,180	0	17,961
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	1,826	3,827	3,644	3,753	3,731	1,180	0	17,961
<b>Appropriations Total*</b>	0	1,826	3,827	3,644	3,753	3,731	1,180	0	17,961
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		851	2,695	3,591	3,701	3,680	3,445	0	17,963

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**Localized Transportation Driven Relocations**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 8369      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project moves electrical lines to accommodate or take advantage of projects being constructed by other agencies. The project builds new and replaces old line segments, installs and replaces poles, and adds or renovates underground facilities to the distribution system, as necessary, to relocate distribution systems for transportation projects, street vacations, or other projects proposed by outside (non-City Light) agencies. Some projects are paid for by City Light and some are paid for by the requesting agencies. Operations and maintenance costs are not expected to change as a result of this project. This project is a continuation of projects 8304, North Relocations, and 8305, South Relocations, which ended in 2006. In 2008, the project includes funding for City Light work in connection with transportation projects at S. Lander St. Grade Separation, Spokane St. Viaduct, and 5th and Northgate.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	19,529	5,349	6,586	3,057	2,901	2,954	3,020	11,202	54,598
<b>Project Total:</b>	19,529	5,349	6,586	3,057	2,901	2,954	3,020	11,202	54,598
<b>Fund Appropriations/Allocations</b>									
City Light Fund	19,529	5,349	6,586	3,057	2,901	2,954	3,020	11,202	54,598
<b>Appropriations Total*</b>	19,529	5,349	6,586	3,057	2,901	2,954	3,020	11,202	54,598
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Major Emergency**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2007  
**Project ID:** 8380      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project covers unexpected problems with the electrical system that result in repairs of over \$100,000 for any one event. Capital costs that are incurred during any single emergency situation lasting over 48 hours are charged to this project, whether temporary or permanent. Examples are weather related outages such as major wind storms and significant snow fall. This project does not add a body of work, but clarifies the accounting for it. This project differs from the "Minor Emergency" project by the severity of the event on the Seattle City Light electrical system. This project is a continuation of projects 8302, North Outage Replacements, and 8303, South Outage Replacements, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	529	171	182	151	155	158	162	164	1,672
<b>Project Total:</b>	529	171	182	151	155	158	162	164	1,672
<b>Fund Appropriations/Allocations</b>									
City Light Fund	529	171	182	151	155	158	162	164	1,672
<b>Appropriations Total*</b>	529	171	182	151	155	158	162	164	1,672
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Massachusetts Street Substation Networks**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 1999  
**Project ID:** 8202      **End Date:** 4th Quarter 2013

**Location:** 1555 Utah Ave S

**Neighborhood Plan:** Duwamish

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Greater Duwamish

**Urban Village:** Not in an Urban Village

This project provides sufficient and reliable electrical capacity for the growing power needs of City Light customers. It is a programmatic approach for comprehensive management of underground network assets (electrical and in some cases civil) serving customers in Pioneer Square and the area bounded by University Street, Third Avenue, Terrace Street and the Freeway. Yearly required work includes feeder balancing, engineering analysis to determine system feeder assignments for new services, and replacement of cables that fail in service. This project also builds new civil and electrical infrastructure as determined by engineering analysis of cable capacity required to meet near-term customer capacity additions. The project includes completion of engineering design and analysis work required before construction of any civil facilities into which feeders can be relocated from the Alaska Way Viaduct. This project defers the need date for a new network substation until no further capacity is available from Union Street and the other network substations.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	5,531	0	0	4,108	4,263	4,386	4,499	4,665	27,452
<b>Project Total:</b>	5,531	0	0	4,108	4,263	4,386	4,499	4,665	27,452
<b>Fund Appropriations/Allocations</b>									
City Light Fund	5,531	0	0	4,108	4,263	4,386	4,499	4,665	27,452
<b>Appropriations Total*</b>	5,531	0	0	4,108	4,263	4,386	4,499	4,665	27,452
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Medium Overhead and Underground Services**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 8366      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides medium size electric power service connections from Seattle City Light's distribution system to the customer's meter for power requirements of 50 KVA to 2.5 MVA and 26 kV radial service. This project also responds to the customer's cost, schedule and design interests. Most of this related work is billable to the customer. This project is a continuation of projects 8120, North Services - Overhead and Underground, and 8121, South Services - Overhead and Underground, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	59,460	5,291	5,387	5,542	5,681	5,701	5,870	5,963	98,895
<b>Project Total:</b>	59,460	5,291	5,387	5,542	5,681	5,701	5,870	5,963	98,895
<b>Fund Appropriations/Allocations</b>									
City Light Fund	59,460	5,291	5,387	5,542	5,681	5,701	5,870	5,963	98,895
<b>Appropriations Total*</b>	59,460	5,291	5,387	5,542	5,681	5,701	5,870	5,963	98,895
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Mercer Corridor Relocations**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 3rd Quarter 2007  
**Project ID:** 8376      **End Date:** 4th Quarter 2008

**Location:** Mercer St & I-5/Dexter Ave N

**Neighborhood Plan:** South Lake Union

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Lake Union

**Urban Village:** South Lake Union

Seattle Department of Transportation (SDOT) is working on a project to widen Mercer Street between I-5 and Dexter Ave North to accommodate three lanes of travel in each direction, parking, sidewalks and a median with left-turn lanes. Valley Street will be narrowed to a two-lane, two-way street. This project funds City Light's required relocation of existing overhead power distribution system to accommodate the project. The scope of the project requires that overhead utilities will be converted to underground. City Light Engineering will need to begin detailed engineering design efforts in 2007 to provide for projected start of construction activities in 2008. This project will also relocate existing transmission lines underground.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	269	11,534	0	0	0	0	0	11,803
<b>Project Total:</b>	0	269	11,534	0	0	0	0	0	11,803
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	269	11,534	0	0	0	0	0	11,803
<b>Appropriations Total*</b>	0	269	11,534	0	0	0	0	0	11,803
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Meter Additions**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP

**BCL/Program Code:** SCL350

**Project Type:** New Facility

**Start Date:** 1st Quarter 1979

**Project ID:** 8054

**End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

The Meter Additions project provides new or replacement meters to enable City Light to generate accurate customer bills. Three types of work occur in this project: new services and installations totaling approximately 5,500 meters annually for new or upgraded commercial and residential customer electrical services; obsolete meter exchanges that total approximately 6,200 obsolete meters annually (out of 380,000 in the distribution system); and an audit of new services, memberships, net-metering, and the impacts on the distribution system.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	48,155	3,762	2,986	3,004	3,111	3,288	3,611	3,672	71,589
<b>Project Total:</b>	48,155	3,762	2,986	3,004	3,111	3,288	3,611	3,672	71,589
<b>Fund Appropriations/Allocations</b>									
City Light Fund	48,155	3,762	2,986	3,004	3,111	3,288	3,611	3,672	71,589
<b>Appropriations Total*</b>	48,155	3,762	2,986	3,004	3,111	3,288	3,611	3,672	71,589
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Miscellaneous Building Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1979  
**Project ID:** 9007      **End Date:** 4th Quarter 2013

**Location:** Citywide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project capitalizes on emergent opportunities to make improvements to City Light's buildings and facilities, including improvements that protect employees and customers from health and safety hazards or meet safety and health code requirements. The project also provides for cost effective asset preservation measures, the need for which had not been previously foreseen. Two examples of previous projects are replacement of the Bothell Substation Control Building roof that unexpectedly failed, and the replacement of batteries on the System Control Center back up power system.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	12,570	170	123	237	219	87	185	83	13,674
<b>Project Total:</b>	12,570	170	123	237	219	87	185	83	13,674
<b>Fund Appropriations/Allocations</b>									
City Light Fund	12,570	170	123	237	219	87	185	83	13,674
<b>Appropriations Total*</b>	12,570	170	123	237	219	87	185	83	13,674
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Neighborhood Voluntary Undergrounding Program**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 3rd Quarter 2007  
**Project ID:** 8383      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides City Light resources to serve potential Voluntary Undergrounding Program (VUP) customers through the VUP process from initial estimate, financial planning, design, construction, and reimbursement of costs from the customers. City Light has provided this VUP service since 1986 when the City enacted Ordinance 112738.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	396	435	448	459	470	481	489	3,178
<b>Project Total:</b>	0	396	435	448	459	470	481	489	3,178
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	396	435	448	459	470	481	489	3,178
<b>Appropriations Total*</b>	0	396	435	448	459	470	481	489	3,178
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Network Additions and Services: Broad Street Substation**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 8363      **End Date:** 4th Quarter 2013

**Location:** 319 6th Ave N

**Neighborhood Plan:** South Lake Union

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Lake Union

**Urban Village:** South Lake Union

This project provides electrical service connections and related improvements in response to customer service requests within the Broad Street network areas. The project performs capacity additions work associated with service connections to customers including condominiums, office buildings, medical facilities, hotels, and commercial and apartment buildings. The project also replaces or installs network transformers, network protectors and specialty transformers, and performs short-duration system improvement work identified during operations, including retrofitting in-building vaults. This program fluctuates with land use development. Service connections are classified as Large, Medium, Small and New Large Load services. This project is a continuation of project 8057, Network Additions and Services, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	99,515	7,505	8,704	9,224	9,437	9,686	9,924	10,349	164,344
<b>Project Total:</b>	99,515	7,505	8,704	9,224	9,437	9,686	9,924	10,349	164,344
<b>Fund Appropriations/Allocations</b>									
City Light Fund	99,515	7,505	8,704	9,224	9,437	9,686	9,924	10,349	164,344
<b>Appropriations Total*</b>	99,515	7,505	8,704	9,224	9,437	9,686	9,924	10,349	164,344
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Network Additions and Svcs: First Hill, Mass, Union & University**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 8364      **End Date:** 4th Quarter 2013

**Location:** 1555 Utah Ave S

**Neighborhood Plan:** Duwamish

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Greater Duwamish

**Urban Village:** Not in an Urban Village

This project provides electrical service connections and related improvements in response to customer service requests within the First Hill, Mass, Union and University District network areas. The project performs capacity additions work associated with service connections to customers, including condominiums, office buildings, medical facilities, hotels, and commercial and apartment buildings. The project also replaces or installs network transformers, network protectors and specialty transformers, and performs short-duration system improvement work identified during operations, including retrofitting in-building vaults. This program fluctuates with land use development. Service connections are classified as Large, Medium, Small and New Large Load services. This project is a continuation of project 8057, Network Additions and Services, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	65,871	5,297	5,432	6,193	6,342	6,509	6,670	6,944	109,258
<b>Project Total:</b>	65,871	5,297	5,432	6,193	6,342	6,509	6,670	6,944	109,258
<b>Fund Appropriations/Allocations</b>									
City Light Fund	65,871	5,297	5,432	6,193	6,342	6,509	6,670	6,944	109,258
<b>Appropriations Total*</b>	65,871	5,297	5,432	6,193	6,342	6,509	6,670	6,944	109,258
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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## Network Hazeltine Upgrade

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 1995  
**Project ID:** 8129      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

This project upgrades City Light's remote vault monitoring capability. When abnormal conditions occur, the transmitter sends an alarm within 30 seconds to the System Control Center, thus avoiding serious and expensive equipment problems while maintaining reliability for the customers. During normal operations, the Power Dispatchers and Network Engineers utilize the monitoring system to confirm that electrical equipment located in customer vaults has operated properly after feeder re-energization.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	2,515	172	0	1,010	1,047	1,079	1,106	1,156	8,085
<b>Project Total:</b>	2,515	172	0	1,010	1,047	1,079	1,106	1,156	8,085
<b>Fund Appropriations/Allocations</b>									
City Light Fund	2,515	172	0	1,010	1,047	1,079	1,106	1,156	8,085
<b>Appropriations Total*</b>	2,515	172	0	1,010	1,047	1,079	1,106	1,156	8,085
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Network Maintenance Hole and Vault Rebuild**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1993  
**Project ID:** 8130      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project repairs or replaces damaged electrical manholes, vaults and ducts located in the street right of way within the Downtown Central and Pioneer Square business districts. The Network has 1,470 manholes/vaults, of which 78 need to be completely rebuilt and 350 need roof rebuilds. There are many meters of old clay tile electrical ducts that need to be replaced. This project reduces the large backlog of decrepit electrical facilities and the hazards to City Light crews and the public.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	26,978	4,802	5,151	5,081	5,193	5,326	5,458	5,661	63,650
<b>Project Total:</b>	26,978	4,802	5,151	5,081	5,193	5,326	5,458	5,661	63,650
<b>Fund Appropriations/Allocations</b>									
City Light Fund	26,978	4,802	5,151	5,081	5,193	5,326	5,458	5,661	63,650
<b>Appropriations Total*</b>	26,978	4,802	5,151	5,081	5,193	5,326	5,458	5,661	63,650
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Newhalem Creek Mitigation**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 1997  
**Project ID:** 6175      **End Date:** 4th Quarter 2007

**Location:** Newhalem Area

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project meets Newhalem license requirements for providing environmental mitigation to minimize adverse impacts of City Light projects. This project implements six subprojects, as required by the 1997 Federal Energy Regulatory Commission license for City Light's Newhalem Creek Hydroelectric Project. These are: (1) constructing a tailrace fish barrier; (2) modifying the intake system to provide for higher instream flows; (3) reimbursing the North Cascades National Park Service for constructing a recreation trail; (4) modifying the service road bridge to provide a trail crossing; (5) modifying the Newhalem Powerhouse viewing platform; and (6) providing public viewing opportunities for the tailrace barrier. The first five projects are complete; the sixth is scheduled to begin in 2007.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	1,022	69	0	0	0	0	0	0	1,091
<b>Project Total:</b>	1,022	69	0	0	0	0	0	0	1,091
<b>Fund Appropriations/Allocations</b>									
City Light Fund	1,022	69	0	0	0	0	0	0	1,091
<b>Appropriations Total*</b>	1,022	69	0	0	0	0	0	0	1,091
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Newhalem Garage Revisions**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2009  
**Project ID:** 6231      **End Date:** 2nd Quarter 2010

**Location:** 500 Newhalem Creek Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project modifies the existing garage arrangements to adapt them to current use requirements, including increasing size, installing concrete floors, and adding 115V interior lighting and outlets. In addition, access to the garages is changed to adapt to landscape improvements built in 2000, consistent with the Master Landscape Plan required by City Light's Federal Energy Regulatory Commission license.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	224	260	0	0	0	484
<b>Project Total:</b>	0	0	0	224	260	0	0	0	484
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	224	260	0	0	0	484
<b>Appropriations Total*</b>	0	0	0	224	260	0	0	0	484
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Newhalem Shop Facilities and Equipment Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2012  
**Project ID:** 6424      **End Date:** 3rd Quarter 2015

**Location:** 500 Newhalem Creek Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project expands the Newhalem machine shop into the space occupied by the existing tire shop, extends the entire shops building to allow relocation of the tire shop, constructs an overhead crane for the machine shop, modifies the crane in the steel shop, and remodels the sandblast building garages at Newhalem.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	0	0	148	180	328
<b>Project Total:</b>	0	0	0	0	0	0	148	180	328
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	0	0	148	180	328
<b>Appropriations Total*</b>	0	0	0	0	0	0	148	180	328
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Normal Emergency**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2007  
**Project ID:** 8379      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project covers unexpected problems with the electrical system that result in necessary repairs that cost over \$5,000. Capital costs incurred during any single emergency situation that lasts less than 48 hours are charged to this project, whether temporary or permanent. Examples include weather related outages, such as lightning storms and brief wind storms. This project differs from the "Major Emergency" project by the severity of the event on the Seattle City Light electrical system. This project is a continuation of projects 8302, North Outage Replacements, and 8303, South Outage Replacements, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	1,184	384	406	378	387	395	405	411	3,950
<b>Project Total:</b>	1,184	384	406	378	387	395	405	411	3,950
<b>Fund Appropriations/Allocations</b>									
City Light Fund	1,184	384	406	378	387	395	405	411	3,950
<b>Appropriations Total*</b>	1,184	384	406	378	387	395	405	411	3,950
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**North 26 kV Conversion**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1993  
**Project ID:** 8124      **End Date:** 2nd Quarter 2007

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The North 26 kV Conversion project replaces all of the old 4 kV electrical equipment remaining in the distribution system with new, efficient and reliable 26 kV electrical equipment. Operations and maintenance costs are not expected to change as a result of this project.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	33,083	0	0	0	0	0	0	0	33,083
<b>Project Total:</b>	33,083	0	0	0	0	0	0	0	33,083
<b>Fund Appropriations/Allocations</b>									
City Light Fund	33,083	0	0	0	0	0	0	0	33,083
<b>Appropriations Total*</b>	33,083	0	0	0	0	0	0	0	33,083
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**North and South Service Center Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1991  
**Project ID:** 9107      **End Date:** 4th Quarter 2013

**Location:** Outside the City of Seattle

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

The North and South Service Center Improvements project improves office, shop, and storage areas to increase efficiency, productivity, and optimal use of space. The facilities project plan often packages a group of projects in one area of the facility to "touch" the space only once and minimize disruption. An example would be the first floor South Service Center Warehouse, where the plan included space redesign, new storage equipment, new office and support areas, painting, lighting, and heating improvements.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	22,398	967	477	219	269	1,018	877	1,109	27,334
<b>Project Total:</b>	22,398	967	477	219	269	1,018	877	1,109	27,334
<b>Fund Appropriations/Allocations</b>									
City Light Fund	22,398	967	477	219	269	1,018	877	1,109	27,334
<b>Appropriations Total*</b>	22,398	967	477	219	269	1,018	877	1,109	27,334
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		967	477	219	269	1,018	42	1,943	4,935

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**North Arterial Streetlights Major Maintenance**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2000  
**Project ID:** 8211      **End Date:** 2nd Quarter 2007

**Location:** Citywide

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

This project provides necessary capital improvements and replacements to the City of Seattle's arterial streetlights in the northern part of the service area. The City transferred ownership of 18,600 arterial streetlights to City Light at the end of 1999. City Light is responsible for maintaining these lights. Of those 18,600 streetlights, 5,000-6,000 lights are on poles installed exclusively for streetlighting. Many of these are fed by underground conductors. Projects include streetlight pole and foundation work, installation of streetlights and underground infrastructure replacement. Work is performed under the direction of the Seattle Department of Transportation (SDOT). The work in this project was continued after 2006 as project 8378, Streetlights: Arterial, Residential and Floodlights.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	531	63	0	0	0	0	0	0	594
<b>Project Total:</b>	531	63	0	0	0	0	0	0	594
<b>Fund Appropriations/Allocations</b>									
City Light Fund	531	63	0	0	0	0	0	0	594
<b>Appropriations Total*</b>	531	63	0	0	0	0	0	0	594
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*



**North Capacity Additions**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 1992  
**Project ID:** 8122      **End Date:** 2nd Quarter 2007

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides electrical lines from substations to customers' property lines so that City Light has sufficient capacity to serve its customers and maintain reliability. The project builds new and replaces old line segments, replaces rotten and damaged poles, and adds or renovates underground facilities in the distribution system in the northern half of the service area. City Light customers pay for some of this work. The project includes labor and materials to remove old components, renovate existing components, and install new components. The project budget includes travel costs to visit generation facilities needing distribution system renovations, and to visit vendors for equipment inspection and operational testing prior to delivery. The work in this project was continued after 2006 as projects 8355, Overhead Customer Driven Capacity Additions, 8356, Overhead System Capacity Additions, 8360, Underground Customer Driven Capacity Additions, and 8361, Underground System Capacity Additions.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	110,156	991	0	0	0	0	0	0	111,147
<b>Project Total:</b>	110,156	991	0	0	0	0	0	0	111,147
<b>Fund Appropriations/Allocations</b>									
City Light Fund	110,156	991	0	0	0	0	0	0	111,147
<b>Appropriations Total*</b>	110,156	991	0	0	0	0	0	0	111,147
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**North Cascades Environmental Learning Center**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2001  
**Project ID:** 6988      **End Date:** 2nd Quarter 2007

**Location:** 500 Newhalem Creek Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project constructs 16 new buildings and remodels one existing building. The scope of the project includes bunkhouses, offices, labs, kitchen, a propane system, parking, access roads, landscaping, irrigation, electricity, lighting, a floating dock, amphitheater, and communications systems.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	18,087	5	0	0	0	0	0	0	18,092
<b>Project Total:</b>	18,087	5	0	0	0	0	0	0	18,092
<b>Fund Appropriations/Allocations</b>									
City Light Fund	18,087	5	0	0	0	0	0	0	18,092
<b>Appropriations Total*</b>	18,087	5	0	0	0	0	0	0	18,092
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**North Downtown Network Services**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2008  
**Project ID:** 8405      **End Date:** 4th Quarter 2014

**Location:** Valley St/Denny Ave

**Neighborhood Plan:** South Lake Union

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Lake Union

**Urban Village:** South Lake Union

This project provides electrical service connections and related improvements in response to customer service within the North Downtown network area. The project provides civil and electrical design assistance to customers to connect existing and proposed buildings to the North Downtown network system. This project performs capacity addition work associated with service connections, and replaces or installs network transformers, network protectors, and bus ties switches. Short-duration system improvement work identified during operations, including retrofitting in-building vaults, is completed. This program fluctuates with land use development. This project is related to two other projects in the CIP: Project 7757, North Downtown Substation Development, will design and construct the new substation; and Project 8404, North Downtown System Network, will construct the network that links the customers to the substation.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	1,764	1,830	1,896	1,946	1,993	2,040	11,469
<b>Project Total:</b>	0	0	1,764	1,830	1,896	1,946	1,993	2,040	11,469
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	1,764	1,830	1,896	1,946	1,993	2,040	11,469
<b>Appropriations Total*</b>	0	0	1,764	1,830	1,896	1,946	1,993	2,040	11,469
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	506	1,798	1,865	1,915	1,961	2,008	10,053

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

## North Downtown Substation Development

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2006  
**Project ID:** 7757      **End Date:** 4th Quarter 2014

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project designs and builds a 200 MVA substation in the North Downtown to meet load growth, and support development of an underground network. Work includes site acquisition. This project is related to two other projects in the CIP: Project 8404, North Downtown System Network, will construct the network that links the customers to the substation; and Project 8405, North Downtown Network Services, will hook up customers, through the network, to the new substation. This project was formerly called "South Lake Union Substation Development."

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	83	292	40,375	32,962	57,728	31,472	15,567	5,217	183,696
<b>Project Total:</b>	83	292	40,375	32,962	57,728	31,472	15,567	5,217	183,696
<b>Fund Appropriations/Allocations</b>									
City Light Fund	83	292	40,375	32,962	57,728	31,472	15,567	5,217	183,696
<b>Appropriations Total*</b>	83	292	40,375	32,962	57,728	31,472	15,567	5,217	183,696
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		292	39,718	26,291	12,365	34,114	37,041	12,798	182,619

## North Downtown System Network

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2008  
**Project ID:** 8404      **End Date:** 4th Quarter 2013

**Location:** Valley St/Denny Ave

**Neighborhood Plan:** South Lake Union      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Lake Union      **Urban Village:** South Lake Union

This project provides network system design and construction, engineering design at the substation network interface, and underground conversion of the streetlight, traffic signals, and telecom and fiber optic systems. This project is related to two other projects in the CIP: Project 7757: Development of the North Downtown Substation; and Project 8405, the North Downtown Network Services that will hook up customers, through the network, to the new substation.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	11,062	12,072	12,544	12,878	13,193	13,507	75,256
<b>Project Total:</b>	0	0	11,062	12,072	12,544	12,878	13,193	13,507	75,256
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	11,062	12,072	12,544	12,878	13,193	13,507	75,256
<b>Appropriations Total*</b>	0	0	11,062	12,072	12,544	12,878	13,193	13,507	75,256
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	482	11,803	12,279	12,620	12,924	3,232	63,340

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

## North New Street and Flood Lighting

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1995  
**Project ID:** 8134      **End Date:** 2nd Quarter 2007

**Location:** Citywide

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

City Light's north service area includes Shoreline, Lake Forest Park, and unincorporated areas of King County. These areas have no provision for publicly funded streetlighting. As a result, the customers in these areas desiring additional streetlighting must pay for it as individuals or small neighborhood groups. The North New Street and Flood Lighting project provides requesting customers in City Light's north service area with rental streetlights and floodlights attached to City Light poles. This service is provided to customers pursuant to City Light Rate Ordinance #116619. City Light receives about 65 requests each year for rental street or flood lights. Operations and maintenance costs are not expected to change as a result of this project. The work in this project was continued after 2006 as project 8378, Streetlights: Arterial, Residential and Floodlights.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	1,615	64	0	0	0	0	0	0	1,679
<b>Project Total:</b>	1,615	64	0	0	0	0	0	0	1,679
<b>Fund Appropriations/Allocations</b>									
City Light Fund	1,615	64	0	0	0	0	0	0	1,679
<b>Appropriations Total*</b>	1,615	64	0	0	0	0	0	0	1,679
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**North Residential Streetlight Improvements**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1995  
**Project ID:** 8136      **End Date:** 2nd Quarter 2007

**Location:** Citywide

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

The North Residential Streetlight Improvements project improves public safety by installing additional residential and commercial area streetlights. The annual scope of this program is planned with input from community and neighborhood groups with the support of the Seattle Police Department. The work in this project was continued after 2006 as project 8378, Streetlights: Arterial, Residential and Floodlights.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	1,955	0	0	0	0	0	0	0	1,955
<b>Project Total:</b>	1,955	0	0	0	0	0	0	0	1,955
<b>Fund Appropriations/Allocations</b>									
City Light Fund	1,955	0	0	0	0	0	0	0	1,955
<b>Appropriations Total*</b>	1,955	0	0	0	0	0	0	0	1,955
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**North Substation Transformer Replacements**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2010  
**Project ID:** 7777      **End Date:** 4th Quarter 2012

**Location:** 814 NE 75th St

**Neighborhood Plan:** Greenlake

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Northwest

**Urban Village:** Green Lake

Two of the substation power transformers will be reviewed to determine dissolved gas concentration, insulation aging, oil leaks, maintenance cost, service stress, and fault-interrupting history. The transformers with the highest failure risk, or those presenting substation capacity limits, will be replaced. These replacements and additions generally take two years overall, with procurement and construction occurring in the first year, and delivery and installation occurring in the second.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	56	1,940	1,952	35	3,983
<b>Project Total:</b>	0	0	0	0	56	1,940	1,952	35	3,983
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	56	1,940	1,952	35	3,983
<b>Appropriations Total*</b>	0	0	0	0	56	1,940	1,952	35	3,983
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	0	0	56	666	1,922	1,340	3,984

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**Office Furniture and Equipment Purchase**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 1979  
**Project ID:** 9103      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides office equipment and furniture costing more than \$5,000 each. Modular office workstations, conference room ensemble furniture, and major office machines acquired under this program furnish newly created or modified space under the Workplace and Process Improvement program, and replace aging office furnishings.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	24,882	0	0	11	11	11	12	12	24,939
<b>Project Total:</b>	24,882	0	0	11	11	11	12	12	24,939
<b>Fund Appropriations/Allocations</b>									
City Light Fund	24,882	0	0	11	11	11	12	12	24,939
<b>Appropriations Total*</b>	24,882	0	0	11	11	11	12	12	24,939
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Outage Management System Configuration and Implementation**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2008  
**Project ID:** 9942      **End Date:** 4th Quarter 2011

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project funds re-engineering of business processes, software development, and implementation of an Outage Management System (OMS) at City Light's System Control Center, Trouble Center, North and South Service Centers, Call Center and Communication organizations. This project improves the Utility's outage response and restoration procedures as recommended in the "After Action Report" prepared by CH2M Hill and "Peer Review Report" by Davies Consulting, Inc.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	3,942	883	547	0	0	0	5,372
<b>Project Total:</b>	0	0	3,942	883	547	0	0	0	5,372
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	3,942	883	547	0	0	0	5,372
<b>Appropriations Total*</b>	0	0	3,942	883	547	0	0	0	5,372
<b>O &amp; M Costs (Savings)</b>			0	77	81	87	93	0	338

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Overhead 26kV Conversion**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2007  
**Project ID:** 8358      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces the 4 kV electrical equipment remaining in the electrical distribution system with new, efficient and reliable 26 kV distribution equipment. This project increases capacity to deliver power to City Light customers, rebuilds and maintains the backbone of City Light's system, saves energy by reducing transformer and line losses, improves quality and reliability of service to customers, and releases unit substation properties for better neighborhood uses. Operations and maintenance costs are not expected to change as a result of this project. This project is a continuation of projects 8124, North 26 kV Conversion, and 8125, South 26 kV Conversion, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	52,132	704	2,335	1,988	2,037	2,085	2,134	2,168	65,583
<b>Project Total:</b>	52,132	704	2,335	1,988	2,037	2,085	2,134	2,168	65,583
<b>Fund Appropriations/Allocations</b>									
City Light Fund	52,132	704	2,335	1,988	2,037	2,085	2,134	2,168	65,583
<b>Appropriations Total*</b>	52,132	704	2,335	1,988	2,037	2,085	2,134	2,168	65,583
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*



**Overhead Customer Driven Capacity Additions**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 8355      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides electrical lines from substations to customers' property lines so that City Light has sufficient capacity to serve its customers and maintain reliability. This project builds new and replaces old line segments, replaces rotten and damaged poles in the distribution system. This work is driven by specific customer projects and is for their direct benefit. City Light will be reimbursed by the customers for this work. Operations and maintenance costs are not expected to change as a result of this project. This project is a continuation of projects 8122, North Capacity Additions, and 8123, South Capacity Additions, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	69,542	4,294	4,660	3,208	9,605	9,922	3,111	3,054	107,396
<b>Project Total:</b>	69,542	4,294	4,660	3,208	9,605	9,922	3,111	3,054	107,396
<b>Fund Appropriations/Allocations</b>									
City Light Fund	69,542	4,294	4,660	3,208	9,605	9,922	3,111	3,054	107,396
<b>Appropriations Total*</b>	69,542	4,294	4,660	3,208	9,605	9,922	3,111	3,054	107,396
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Overhead Equipment Replacements**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2007  
**Project ID:** 8351      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces older equipment in City Light's distribution system that is nearing the end of its usable life, is overloaded, or is of an outdated design which requires replacement due to the lack of spare parts. These items include, but are not limited to, poles, crossarms, transformers, and open-wire secondaries. This work improves system reliability by reducing the chances of unplanned outages on the system. Operations and maintenance costs are not expected to change as a result of this project. This project is a continuation of projects 8302, North Outage Replacements, and 8303, South Outage Replacements, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	3,505	814	857	893	915	937	959	974	9,854
<b>Project Total:</b>	3,505	814	857	893	915	937	959	974	9,854
<b>Fund Appropriations/Allocations</b>									
City Light Fund	3,505	814	857	893	915	937	959	974	9,854
<b>Appropriations Total*</b>	3,505	814	857	893	915	937	959	974	9,854
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Overhead Outage Replacements**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2007  
**Project ID:** 8350      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project supports the capitalized portion of work resulting from unplanned, non-emergency, overhead outages to ensure that customers' electric power is restored as quickly as possible. These outages result from events, such as storms, accidents, and equipment failures. Replacement includes permanent storm repairs, and construction of new infrastructure to bypass failing equipment. Pole and transformer replacements that are required to restore power are among the elements capitalized during such repairs. The project budget includes travel, meals, and other costs for visits to generation facilities to make needed repairs. Operations and maintenance costs are not expected to change as a result of this project. This project is a continuation of projects 8302, North Outage Replacements, and 8303, South Outage Replacements, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	570	185	195	207	212	217	210	213	2,009
<b>Project Total:</b>	570	185	195	207	212	217	210	213	2,009
<b>Fund Appropriations/Allocations</b>									
City Light Fund	570	185	195	207	212	217	210	213	2,009
<b>Appropriations Total*</b>	570	185	195	207	212	217	210	213	2,009
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Overhead System Capacity Additions**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 8356      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides electrical lines from substations to customers' property lines so that City Light has sufficient capacity to serve its customers and maintain reliability. This project builds new and replaces old line segments, replaces rotten and damaged poles in the distribution system. City Light customers pay for some of this work. The project includes labor and materials to remove old components, renovate existing components, and install new components. The project budget includes travel costs to visit generation facilities needing distribution system renovations, and to visit vendors for equipment inspection and operational testing prior to delivery. Operations and maintenance costs are not expected to change as a result of this project. This project is a continuation of projects 8122, North Capacity Additions, and 8123, South Capacity Additions, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	45,996	3,471	3,055	3,183	3,262	3,339	3,418	3,472	69,196
<b>Project Total:</b>	45,996	3,471	3,055	3,183	3,262	3,339	3,418	3,472	69,196
<b>Fund Appropriations/Allocations</b>									
City Light Fund	45,996	3,471	3,055	3,183	3,262	3,339	3,418	3,472	69,196
<b>Appropriations Total*</b>	45,996	3,471	3,055	3,183	3,262	3,339	3,418	3,472	69,196
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

## Performance Management and Budgeting System

<b>BCL/Program Name:</b> Financial Services - CIP	<b>BCL/Program Code:</b> SCL550
<b>Project Type:</b> Rehabilitation or Restoration	<b>Start Date:</b> 3rd Quarter 2007
<b>Project ID:</b> 9933	<b>End Date:</b> 4th Quarter 2007

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

This project will provide operational and financial performance metrics that reflect expected performance in Customer Service and Energy Delivery. This involves the identification of a process structure for the utility as well as development of performance metrics for CSED during this pilot phase. This project includes staffing, software, and consultant support to implement the pilot. The pilot's technology solution will provide "real time" information linking the utility's business strategy and performance.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	558	0	0	0	0	0	0	558
<b>Project Total:</b>	0	558	0	0	0	0	0	0	558
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	558	0	0	0	0	0	0	558
<b>Appropriations Total*</b>	0	558	0	0	0	0	0	0	558
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Pole Replacement Program**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2007  
**Project ID:** 8371      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The project pays for a contractor to inspect and survey the entire pole system within 5 years of original start date. The contractor classifies the poles into three categories on how best to prolong the useable life of each pole. The contractor treats a Category One pole with approved chemicals, in situ, at the time of the inspection. The contractor refers a Category Two pole to Seattle City Light (SCL) to be reinforced with one or two steel sleeves at the ground line. The contractor refers a Category Three pole to SCL to be replaced with a new pole. The project also provides for dedicated SCL crews, equipment and material to perform the reinforcement or replacement, at a rate of 900 reinforcements and 1100 pole replacements per year. The contractor also provides a downloadable accounting of the usage of pole rental space by other parties. The data is the basis for collecting rental fees from the owners of the attachments.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	2,191	9,129	13,133	13,539	13,874	7,259	7,265	66,390
<b>Project Total:</b>	0	2,191	9,129	13,133	13,539	13,874	7,259	7,265	66,390
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	2,191	9,129	13,133	13,539	13,874	7,259	7,265	66,390
<b>Appropriations Total*</b>	0	2,191	9,129	13,133	13,539	13,874	7,259	7,265	66,390
<b>O &amp; M Costs (Savings)</b>			2,665	2,737	2,262	2,320	0	0	9,984

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

## Power Stations Demand Driven Improvements

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2001  
**Project ID:** 7755      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

Periodically, other electrical utilities in the region ask City Light to do cooperative work on shared lines and systems. Most of the requests come from the Bonneville Power Administration (BPA), Puget Sound Energy (PSE), or Snohomish County Public Utility District. In most instances, a contract is signed by both parties and City Light bills the costs to the originating agency.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	5,286	176	7	8	8	8	8	8	5,509
<b>Project Total:</b>	5,286	176	7	8	8	8	8	8	5,509
<b>Fund Appropriations/Allocations</b>									
City Light Fund	5,286	176	7	8	8	8	8	8	5,509
<b>Appropriations Total*</b>	5,286	176	7	8	8	8	8	8	5,509
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Power Stations Oil Containment**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2008  
**Project ID:** 7783      **End Date:** 4th Quarter 2011

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This projects implements oil containment improvements at 11 substations as recommended by Seattle City Light's 2006 Spill Prevention Control & Countermeasure (SPCC) Plans to bring City Light into compliance with the implementing regulations of the Clean Water Act (Title 40, Code of Federal Regulations, Part 112). Improvements vary from station to station, and range from providing oil containment facilities where none exist now (e.g. Duwamish Substation bus bays), to bringing existing older systems up to current standards (e.g. Bothell Substation unlined sumps under the large transformers and breakers).

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	220	1,131	1,049	1,125	0	0	3,525
<b>Project Total:</b>	0	0	220	1,131	1,049	1,125	0	0	3,525
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	220	1,131	1,049	1,125	0	0	3,525
<b>Appropriations Total*</b>	0	0	220	1,131	1,049	1,125	0	0	3,525
<b>O &amp; M Costs (Savings)</b>			10	10	10	10	10	10	60

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*



**Relaying Improvements**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2001  
**Project ID:** 7753      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

Relays are protective devices that guard system components when electrical equipment fails. When a relay senses a problem with a major piece of equipment, it opens the circuit flowing to that component and isolates it from the rest of the electrical system. This protects the rest of the distribution system from potentially cascading effects if one part fails to operate properly.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	2,729	1,153	1,137	1,109	1,121	1,146	1,173	1,192	10,760
<b>Project Total:</b>	2,729	1,153	1,137	1,109	1,121	1,146	1,173	1,192	10,760
<b>Fund Appropriations/Allocations</b>									
City Light Fund	2,729	1,153	1,137	1,109	1,121	1,146	1,173	1,192	10,760
<b>Appropriations Total*</b>	2,729	1,153	1,137	1,109	1,121	1,146	1,173	1,192	10,760
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Replace BillView System**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2007  
**Project ID:** 9938      **End Date:** 4th Quarter 2007

**Location:** 700 5th Ave

**Neighborhood Plan:** Commercial Core      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Downtown      **Urban Village:** Commercial Core

The purpose of the Customer Information System (CIS) is to provide billing services, call center support and customer related information to utility staff, especially call center staff and customer service back office staff so that: 1) billing of services is timely and accurate for all Seattle utilities; 2) the revenue stream is continuous through uninterrupted billing services; 3) credit and collections processing is timely; and 4) customer related information is maintained.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	680	0	0	0	0	0	0	680
<b>Project Total:</b>	0	680	0	0	0	0	0	0	680
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	680	0	0	0	0	0	0	680
<b>Appropriations Total*</b>	0	680	0	0	0	0	0	0	680
<b>O &amp; M Costs (Savings)</b>			55	56	58	59	61	62	351

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**Replace Breakers BPA Covington and Maple Valley Substations**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2007  
**Project ID:** 7121      **End Date:** 4th Quarter 2009

**Location:** Kent

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project meets the terms of City Light's interconnection agreement with Bonneville Power Administration (BPA) by upgrading breaker capacity in two substations that are owned by BPA, but at which City Light is responsible for the breakers.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	777	627	420	0	0	0	0	1,824
<b>Project Total:</b>	0	777	627	420	0	0	0	0	1,824
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	777	627	420	0	0	0	0	1,824
<b>Appropriations Total*</b>	0	777	627	420	0	0	0	0	1,824
<b>O &amp; M Costs (Savings)</b>			116	130	139	142	0	0	527

**Ross Dam - AC/DC Distribution System Upgrade**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 6373      **End Date:** 1st Quarter 2010

**Location:** Milepost 128 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project upgrades aging AC electrical distribution system at Ross Dam with a new electrical distribution system. It installs conduit, ducting, distribution panels and wire; improves the 4KV system; improves lighting; and provides improvements on top of the dam, including a center substation room, emergency generator, valve houses, and a 130-volt battery bank.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	49	659	1,505	793	1	0	0	0	3,007
<b>Project Total:</b>	49	659	1,505	793	1	0	0	0	3,007
<b>Fund Appropriations/Allocations</b>									
City Light Fund	49	659	1,505	793	1	0	0	0	3,007
<b>Appropriations Total*</b>	49	659	1,505	793	1	0	0	0	3,007
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		659	1,403	895	1	0	0	0	2,958

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**Ross Dam - New Access Road from SR20 to Dam**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2011  
**Project ID:** 6452      **End Date:** 1st Quarter 2011

**Location:** 500 Newhalem Creek Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project constructs an access/service road from SR 20 to Ross Dam. Preliminary designs made in the 1970's and 1980 are reviewed, updated, and evaluated as a first phase. This first phase study includes review of construction costs, permit and public review processes, and timetables.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	0	20	0	0	20
<b>Project Total:</b>	0	0	0	0	0	20	0	0	20
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	0	20	0	0	20
<b>Appropriations Total*</b>	0	0	0	0	0	20	0	0	20
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Ross Facility - Minor Improvements Program**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 6402      **End Date:** 4th Quarter 2012

**Location:** Milepost 128 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides financing for unforeseeable, unscheduled capital work. In addition, it funds scheduled, small capital projects that have cost estimates less than \$25,000. This project covers work specifically related to Ross Facilities.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	245	920	547	708	554	549	561	0	4,084
<b>Project Total:</b>	245	920	547	708	554	549	561	0	4,084
<b>Fund Appropriations/Allocations</b>									
City Light Fund	245	920	547	708	554	549	561	0	4,084
<b>Appropriations Total*</b>	245	920	547	708	554	549	561	0	4,084
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Ross Powerhouse - Fire Protection Systems Modification**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 1993  
**Project ID:** 6166      **End Date:** 2nd Quarter 2010

**Location:** Milepost 128 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides a water spray generator fire suppression system for Generators 41-44, with installation coinciding with the generator rebuilds. The project replaces the existing CO2 system, and improves the sensing, controls, and alarms. Scope includes design and installation of a water delivery system and a new control system for fire detection, alarming, and suppression. A 2003 SCL Engineering Report titled "Review of Generator Fire Suppression" recommended conversion of generator fire suppression systems from CO2 to water spray when an opportunity arises, and is the basis of this project.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	1,809	430	417	334	0	0	0	0	2,990
<b>Project Total:</b>	1,809	430	417	334	0	0	0	0	2,990
<b>Fund Appropriations/Allocations</b>									
City Light Fund	1,809	430	417	334	0	0	0	0	2,990
<b>Appropriations Total*</b>	1,809	430	417	334	0	0	0	0	2,990
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Ross Powerhouse - Governors Replacement**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1998  
**Project ID:** 6205      **End Date:** 4th Quarter 2014

**Location:** Milepost 128 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides improved automatic signal processing and information management to Powerhouse operators and the Power Management Branch to reduce downtime and maximize power generation in 22% of City Light's generating capacity. The new digital technology also provides networking compatibility to support future information management objectives. The generator control upgrade work is scheduled for 2012. Small amounts were spent on this project between 1999 and 2001 to replace the annunciators. (An annunciator is part of an equipment control system that alerts the operator to events/status related to the equipment.)

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	555	0	0	0	0	0	781	787	2,123
<b>Project Total:</b>	555	0	0	0	0	0	781	787	2,123
<b>Fund Appropriations/Allocations</b>									
City Light Fund	555	0	0	0	0	0	781	787	2,123
<b>Appropriations Total*</b>	555	0	0	0	0	0	781	787	2,123
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Ross Powerhouse - Programmable Language Controller Upgrade**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2009  
**Project ID:** 6376      **End Date:** 1st Quarter 2011

**Location:** Milepost 128 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces some of the Human-Machine Interface (HMI) and existing programmable-logic controllers (PLCs) that are used with generating equipment at Ross Powerhouse, with a more advanced, user-friendly technology. It replaces the existing Modicon PLC with a new processor/data acquisition system (Allen-Bradley PLC or Modicon upgrade), as well as the HMI system.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	410	188	1	0	0	599
<b>Project Total:</b>	0	0	0	410	188	1	0	0	599
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	410	188	1	0	0	599
<b>Appropriations Total*</b>	0	0	0	410	188	1	0	0	599
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Ross Powerhouse - Replace Governor Oil Pumps**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2008  
**Project ID:** 6377      **End Date:** 4th Quarter 2010

**Location:** Milepost 128 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces the governor oil pump systems on all four Ross Powerhouse generator units. Each unit requires two pumps with motors, valves, switches, and control circuits.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	90	547	164	0	0	0	801
<b>Project Total:</b>	0	0	90	547	164	0	0	0	801
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	90	547	164	0	0	0	801
<b>Appropriations Total*</b>	0	0	90	547	164	0	0	0	801
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Ross Powerhouse - Storage Building**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2009  
**Project ID:** 6456      **End Date:** 2nd Quarter 2010

**Location:** Milepost 128 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project designs and erects a 1,500 square foot, heated and ventilated storage building at Ross Powerhouse, enabling storage of critical spare parts near the powerhouse, and freeing up work space in the powerhouse.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	422	68	0	0	0	490
<b>Project Total:</b>	0	0	0	422	68	0	0	0	490
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	422	68	0	0	0	490
<b>Appropriations Total*</b>	0	0	0	422	68	0	0	0	490
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Ross Powerhouse - Unit 41 Generator Rebuild**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2008  
**Project ID:** 6382      **End Date:** 2nd Quarter 2010

**Location:** Milepost 128 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project is part of the Utility's Generator Rebuild Program. The program rebuilds ten generators (accounting for 70 percent of City Light's generating capability) by the end of 2013. This project rebuilds Generator 41 at Ross Powerhouse. This generator provides 5.5 percent of the total generation of SCL.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	4,633	2,154	143	0	0	0	6,930
<b>Project Total:</b>	0	0	4,633	2,154	143	0	0	0	6,930
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	4,633	2,154	143	0	0	0	6,930
<b>Appropriations Total*</b>	0	0	4,633	2,154	143	0	0	0	6,930
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	13	6,466	451	0	0	0	6,930

\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.

**Ross Powerhouse - Unit 43 Generator Rebuild**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 6380      **End Date:** 3rd Quarter 2007

**Location:** Milepost 128 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project is part of the Utility's Generator Rebuild Program. The program rebuilds ten generators (accounting for 70 percent of City Light's generating capability) by the end of 2013. This project rebuilds Generator 43 at Ross Powerhouse. This generator provides 5.5 percent of the total SCL power generation.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	5,403	592	0	0	0	0	0	0	5,995
<b>Project Total:</b>	5,403	592	0	0	0	0	0	0	5,995
<b>Fund Appropriations/Allocations</b>									
City Light Fund	5,403	592	0	0	0	0	0	0	5,995
<b>Appropriations Total*</b>	5,403	592	0	0	0	0	0	0	5,995
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Ross Powerhouse - Unit 44 Generator Rebuild**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2006  
**Project ID:** 6381      **End Date:** 3rd Quarter 2008

**Location:** Milepost 128 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project is part of the Utility's Generator Rebuild Program. The program rebuilds ten generators (accounting for 70 percent of City Light's generating capability) by the end of 2013. This project rebuilds Generator 44 at Ross Powerhouse. This generator provides 5.5 percent of the total SCL power generation.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	41	6,140	162	0	0	0	0	0	6,343
<b>Project Total:</b>	41	6,140	162	0	0	0	0	0	6,343
<b>Fund Appropriations/Allocations</b>									
City Light Fund	41	6,140	162	0	0	0	0	0	6,343
<b>Appropriations Total*</b>	41	6,140	162	0	0	0	0	0	6,343
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		5,755	547	0	0	0	0	0	6,302

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*



## Ross Powerhouse - Units 41/42/44 Generator Circuit Breakers

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2006  
**Project ID:** 6374      **End Date:** 4th Quarter 2009

**Location:** Milepost 128 State Highway 20

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces the air circuit breakers for Generators 41, 42, and 44 at the Ross Powerhouse with more efficient and reliable sulfur hexafluoride (SF6) technology. These breakers are part of generators providing 16.5 percent of City Light's generating capacity.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	34	1,677	904	182	0	0	0	0	2,797
<b>Project Total:</b>	34	1,677	904	182	0	0	0	0	2,797
<b>Fund Appropriations/Allocations</b>									
City Light Fund	34	1,677	904	182	0	0	0	0	2,797
<b>Appropriations Total*</b>	34	1,677	904	182	0	0	0	0	2,797
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		992	865	906	0	0	0	0	2,763

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Roy Street Backup System Control Center Installation**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2009  
**Project ID:** 9213      **End Date:** 4th Quarter 2010

**Location:** 157 Roy St

**Neighborhood Plan:** Queen Anne      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Magnolia/Queen Anne      **Urban Village:** Uptown

This project installs the Energy Management System and supporting infrastructure necessary for the implementation of the Backup System Control Center in the newly renovated Power Control Center building located at 157 Roy Street. This may include, but is not limited to the purchase and installation of Energy Management System computers and servers, communication equipment, personal computers, outage management systems, and supporting infrastructure. The Backup System Control Center provides backup for the primary System Control Center; allows for the continued remote monitoring and operations of all generating equipment at City Light's hydroelectric facilities, transmission equipment at all City Light substations and City Light's distribution equipment; and maintains bulk electric system reliability and interconnect requirements associated with City Light service load.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	3,017	29	0	0	0	3,046
<b>Project Total:</b>	0	0	0	3,017	29	0	0	0	3,046
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	3,017	29	0	0	0	3,046
<b>Appropriations Total*</b>	0	0	0	3,017	29	0	0	0	3,046
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	0	1,597	1,450	0	0	0	3,047

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Roy Street Emergency Center Building Renovation**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2008  
**Project ID:** 9210      **End Date:** 4th Quarter 2009

**Location:** 157 Roy St

**Neighborhood Plan:** Queen Anne      **Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Magnolia/Queen Anne      **Urban Village:** Uptown

This project provides funding for the renovation of the former Power Control Center building located at 157 Roy Street in order to prepare the building to house critical systems and functions essential for City Light response and recovery during emergencies and disasters. Once renovated, the building will serve as City Light's Command Control and Coordination Center and will house five system functions: Department Operations Center, Trouble Center, Information Technology Disaster Recovery Center, Backup System Control Center, and Security Monitoring Center. The renovation may include, but is not limited to the upgrade or replacement of structural, electrical or mechanical systems or other components critical to building operations, plus site development items.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	2,751	25	0	0	0	0	2,776
<b>Project Total:</b>	0	0	2,751	25	0	0	0	0	2,776
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	2,751	25	0	0	0	0	2,776
<b>Appropriations Total*</b>	0	0	2,751	25	0	0	0	0	2,776
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	1,246	1,530	0	0	0	0	2,776

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Roy Street Emergency Center Communication Installation**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2008  
**Project ID:** 9211      **End Date:** 4th Quarter 2009

**Location:** 157 Roy St

**Neighborhood Plan:** Queen Anne      **Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Magnolia/Queen Anne      **Urban Village:** Uptown

This project purchases and installs fiber cable, communication equipment and other supporting infrastructure necessary for the implementation of City Light's Department Operations Center in the newly renovated Power Control Center building located at 157 Roy Street. The equipment facilitates more efficient and effective emergency response capabilities in a disaster or emergency. This project also supports the Trouble Center and Information Technology Disaster Recovery Center.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	1,689	16	0	0	0	0	1,705
<b>Project Total:</b>	0	0	1,689	16	0	0	0	0	1,705
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	1,689	16	0	0	0	0	1,705
<b>Appropriations Total*</b>	0	0	1,689	16	0	0	0	0	1,705
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	830	874	0	0	0	0	1,704

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Roy Street Emergency Center Control System Installation**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2008  
**Project ID:** 9212      **End Date:** 4th Quarter 2008

**Location:** 157 Roy St

**Neighborhood Plan:** Queen Anne      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Magnolia/Queen Anne      **Urban Village:** Uptown

This project funds the installation of the Hazeltine SCADA system terminal and personal computers, communication equipment, and supporting infrastructure necessary to implement the Trouble Center in the newly renovated Power Control Center building located at 157 Roy Street. The Trouble Center serves as City Light's coordination center during emergencies and disasters that impact City Light's electrical service and exceed System Operations Division's resources. This project also supports the Department Operations Center, which is co-located in the building.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	199	0	0	0	0	0	199
<b>Project Total:</b>	0	0	199	0	0	0	0	0	199
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	199	0	0	0	0	0	199
<b>Appropriations Total*</b>	0	0	199	0	0	0	0	0	199
<b>O &amp; M Costs (Savings)</b>			10	10	10	10	10	10	60

**Roy Street Security Monitoring Equipment Installation**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2009  
**Project ID:** 9214      **End Date:** 4th Quarter 2009

**Location:** 157 Roy St

**Neighborhood Plan:** Queen Anne      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Magnolia/Queen Anne      **Urban Village:** Uptown

This project purchases and installs security monitoring equipment and supporting infrastructure necessary for the implementation of the Security Monitoring Center in the newly renovated Power Control Center building located at 157 Roy Street. The project allows for continuous 24/7 security monitoring and alarm assessment at various City Light facilities.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	402	0	0	0	0	402
<b>Project Total:</b>	0	0	0	402	0	0	0	0	402
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	402	0	0	0	0	402
<b>Appropriations Total*</b>	0	0	0	402	0	0	0	0	402
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Safety Modifications**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 1979  
**Project ID:** 9006      **End Date:** 4th Quarter 2013

**Location:** Citywide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project modifies SCL facilities and provides equipment to protect employees and customers from health and safety hazards, and to meet safety and health code requirements.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	3,239	294	96	362	228	232	237	241	4,929
<b>Project Total:</b>	3,239	294	96	362	228	232	237	241	4,929
<b>Fund Appropriations/Allocations</b>									
City Light Fund	3,239	294	96	362	228	232	237	241	4,929
<b>Appropriations Total*</b>	3,239	294	96	362	228	232	237	241	4,929
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Sandpoint Underground Residential Distribution Rebuild**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2011  
**Project ID:** 8386      **End Date:** 4th Quarter 2015

**Location:** NE 95th & 40th Ave/NE 75th & Sand Point Way

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Northeast      **Urban Village:** Not in an Urban Village

This project rebuilds the underground distribution system at Sand Point. The project replaces increasingly failure-prone aging equipment and direct buried cables with an encased duct bank system that improves service reliability, customer satisfaction, economic operating efficiencies, and safety. Service reliability improvements begin in 2011 and are fully realized in 2015 when construction is complete. Service life for the new system is estimated at 40 years. This is a continuation of work from former Project 8302.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	0	120	417	829	1,366
<b>Project Total:</b>	0	0	0	0	0	120	417	829	1,366
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	0	120	417	829	1,366
<b>Appropriations Total*</b>	0	0	0	0	0	120	417	829	1,366
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Security Improvements**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 9202      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This program plans, designs and implements projects to improve the physical security of City Light critical facilities in order to mitigate unauthorized access and criminal activities that could cause significant system damage, power outages, and other related disruptions to the electrical system.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	1,096	5,311	2,390	1,675	2,006	724	713	718	14,633
<b>Project Total:</b>	1,096	5,311	2,390	1,675	2,006	724	713	718	14,633
<b>Fund Appropriations/Allocations</b>									
City Light Fund	1,096	5,311	2,390	1,675	2,006	724	713	718	14,633
<b>Appropriations Total*</b>	1,096	5,311	2,390	1,675	2,006	724	713	718	14,633
<b>O &amp; M Costs (Savings)</b>			2,290	2,110	2,200	2,296	2,395	2,454	13,745
<b>Spending Plan</b>		1,940	4,119	2,991	2,333	724	713	718	13,538

**Seismic Mitigation**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1996  
**Project ID:** 9134      **End Date:** 4th Quarter 2013

**Location:** Outside the City of Seattle

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project funds structural upgrades to buildings. Facility seismic improvements protect City Light's assets, employees, customers, visitors, equipment, and materials. The scope of improvements is linked to the business conducted at designated sites and the requirements of each site during emergency conditions.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	4,567	0	0	243	173	30	31	32	5,076
<b>Project Total:</b>	4,567	0	0	243	173	30	31	32	5,076
<b>Fund Appropriations/Allocations</b>									
City Light Fund	4,567	0	0	243	173	30	31	32	5,076
<b>Appropriations Total*</b>	4,567	0	0	243	173	30	31	32	5,076
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Shoreline Substation Transformer Replacements**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2007  
**Project ID:** 7776      **End Date:** 4th Quarter 2011

**Location:** 2136 N 163rd St, Shoreline

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project reviews three power transformers at Shoreline Substation to determine dissolved gas concentration, insulation aging, oil leaks, maintenance cost, service stress, and fault-interrupting history. The transformers with the highest failure risk, or those presenting substation capacity limits, will be replaced. These replacements and additions generally take two years overall, with procurement and construction occurring in the first year, and delivery and installation occurring in the second.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	50	2,841	1,893	1,896	48	0	0	6,728
<b>Project Total:</b>	0	50	2,841	1,893	1,896	48	0	0	6,728
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	50	2,841	1,893	1,896	48	0	0	6,728
<b>Appropriations Total*</b>	0	50	2,841	1,893	1,896	48	0	0	6,728
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		50	721	2,217	2,446	1,294	0	0	6,728

**Shoreline Undergrounding: Midvale Ave.**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2007  
**Project ID:** 8374      **End Date:** 4th Quarter 2011

**Location:** 2136 N 163rd St, Shoreline

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project converts approximately 10 blocks of overhead distribution circuits to underground along Midvale Ave in the City of Shoreline (Shoreline). Project costs are recovered through rates charged in the Shoreline jurisdiction. This electric project is part of a larger Shoreline public works project and there is a linkage with Shoreline's funding plan for the larger project.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	40	71	1,610	1,662	12	0	0	3,395
<b>Project Total:</b>	0	40	71	1,610	1,662	12	0	0	3,395
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	40	71	1,610	1,662	12	0	0	3,395
<b>Appropriations Total*</b>	0	40	71	1,610	1,662	12	0	0	3,395
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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## Shoreline Undergrounding: North City and Aurora Avenue North

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2005  
**Project ID:** 8320      **End Date:** 4th Quarter 2012

**Location:** 2136 N 163rd St, Shoreline

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project addresses Phases Two and Three of work to convert overhead distribution circuits to underground along Aurora Avenue in the City of Shoreline (Shoreline). The project converts 40 blocks, from N 165th St to N 205th St. This electric project is part of a larger Shoreline public works project, and there is a linkage with Shoreline's funding plan for the larger project. The project begins civil construction in 2008 and completes electrical construction in 2010.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	10,493	348	1,157	3,744	5,331	2,273	394	0	23,740
<b>Project Total:</b>	10,493	348	1,157	3,744	5,331	2,273	394	0	23,740
<b>Fund Appropriations/Allocations</b>									
City Light Fund	10,493	348	1,157	3,744	5,331	2,273	394	0	23,740
<b>Appropriations Total*</b>	10,493	348	1,157	3,744	5,331	2,273	394	0	23,740
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		348	1,157	3,378	5,214	2,755	394	0	13,246

## Skaqit Facility - Diablo Road Repaving

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2010  
**Project ID:** 6428      **End Date:** 1st Quarter 2011

**Location:** 500 Newhalem Creek Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project repaves the road between Highway 20 and the North Cascades Environmental Learning Center.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	448	136	0	0	584
<b>Project Total:</b>	0	0	0	0	448	136	0	0	584
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	448	136	0	0	584
<b>Appropriations Total*</b>	0	0	0	0	448	136	0	0	584
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Skagit Facility - Minor Improvements Program**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 6405      **End Date:** 4th Quarter 2012

**Location:** 500 Newhalem Creek Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides financing for unforeseeable, unscheduled capital work. In addition, it funds scheduled, small capital projects that have cost estimates less than \$25,000. This project covers work specifically related to general Skagit Facilities.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	445	1,956	1,192	1,256	792	768	872	0	7,281
<b>Project Total:</b>	445	1,956	1,192	1,256	792	768	872	0	7,281
<b>Fund Appropriations/Allocations</b>									
City Light Fund	445	1,956	1,192	1,256	792	768	872	0	7,281
<b>Appropriations Total*</b>	445	1,956	1,192	1,256	792	768	872	0	7,281
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Skagit Facility - Network Controls**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 6385      **End Date:** 1st Quarter 2010

**Location:** 500 Newhalem Creek Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides the infrastructure required to install the basic control network and integrate existing, major control systems for a Skagit wide network controls program, to be located at each of the Skagit facilities. This project will result in improved monitoring and control of the Skagit facilities, reduced maintenance and reduced outages through bearing and other failures, and reduced cost and time of maintenance and outages. This project will incorporate features that lead to enhanced data acquisition that is part of the NERC requirements.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	51	940	419	47	0	0	0	1,457
<b>Project Total:</b>	0	51	940	419	47	0	0	0	1,457
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	51	940	419	47	0	0	0	1,457
<b>Appropriations Total*</b>	0	51	940	419	47	0	0	0	1,457
<b>O &amp; M Costs (Savings)</b>			0	0	16	16	16	16	64

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**Skagit Facility - Preserve/Upgrade Historic Reg Structures**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2006  
**Project ID:** 6426      **End Date:** 2nd Quarter 2009

**Location:** 500 Newhalem Creek Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project remodels camp housing facilities located in Newhalem: House 6 (V.I.P. House), the Hotel, the Pansy House, and Bunkhouse 70 providing additional housing units as rentals to employees, and temporary housing for work crews. It will also bring SCL into compliance with the FERC licensing requirements, which is mandated to act under section 106 of the Historic Preservation Act.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	18	522	1,019	42	0	0	0	0	1,601
<b>Project Total:</b>	18	522	1,019	42	0	0	0	0	1,601
<b>Fund Appropriations/Allocations</b>									
City Light Fund	18	522	1,019	42	0	0	0	0	1,601
<b>Appropriations Total*</b>	18	522	1,019	42	0	0	0	0	1,601
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	15	15
<b>Spending Plan</b>		522	381	680	0	0	0	0	1,583

**Skagit Facility - Radio System Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2005  
**Project ID:** 6421      **End Date:** 1st Quarter 2012

**Location:** 500 500 Newhalem Creek Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project extends radio communication to areas inside the dams so that personnel can communicate immediately should there be a threat to personnel safety, a failure of mechanical or electrical equipment, or a concern about the dam structure.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	13	0	0	63	134	809	32	0	1,051
<b>Project Total:</b>	13	0	0	63	134	809	32	0	1,051
<b>Fund Appropriations/Allocations</b>									
City Light Fund	13	0	0	63	134	809	32	0	1,051
<b>Appropriations Total*</b>	13	0	0	63	134	809	32	0	1,051
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	0	63	134	257	584	0	1,038

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**Skagit Facility - Security Systems**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2003  
**Project ID:** 6388      **End Date:** 1st Quarter 2008

**Location:** 500 Newhalem Creek Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides security systems at Skagit camps and generating facilities. Project elements include installation of automated gates, surveillance, and an access control and detection system. This system will provide the ability to control access and prevent theft and vandalism.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	906	229	31	0	0	0	0	0	1,166
<b>Project Total:</b>	906	229	31	0	0	0	0	0	1,166
<b>Fund Appropriations/Allocations</b>									
City Light Fund	906	229	31	0	0	0	0	0	1,166
<b>Appropriations Total*</b>	906	229	31	0	0	0	0	0	1,166
<b>O &amp; M Costs (Savings)</b>			11	11	11	11	12	0	56

**Skagit Licensing Mitigation**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1991  
**Project ID:** 6991      **End Date:** 4th Quarter 2013

**Location:** 500 Newhalem Creek Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project enhances and protects wildlife habitat on utility-owned land in the Upper Skagit River and South Fork Nooksack River valleys to meet the obligations outlined in City Light's 1995 Skagit license.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	33,887	403	124	168	172	176	148	150	35,228
<b>Project Total:</b>	33,887	403	124	168	172	176	148	150	35,228
<b>Fund Appropriations/Allocations</b>									
City Light Fund	33,887	403	124	168	172	176	148	150	35,228
<b>Appropriations Total*</b>	33,887	403	124	168	172	176	148	150	35,228
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Skagit Oil Containment Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2008  
**Project ID:** 6458      **End Date:** 3rd Quarter 2010

**Location:** 500 Newhalem Creek Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project corrects deficiencies, if found, in the existing oil containment systems at the Skagit project to come into compliance with the requirements of the Clean Water Act. The work program includes an options analysis in 2007, oil containment design in 2008, and construction of improvements in 2009.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	250	284	252	0	0	0	786
<b>Project Total:</b>	0	0	250	284	252	0	0	0	786
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	250	284	252	0	0	0	786
<b>Appropriations Total*</b>	0	0	250	284	252	0	0	0	786
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	250	21	515	0	0	0	786

**Skagit Powerhouses - Install Protection Relays**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2005  
**Project ID:** 6415      **End Date:** 1st Quarter 2012

**Location:** 500 Newhalem Creek Rd, Marblemount, WA 98267

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project enhances generating reliability by adding protective relays to generating systems. The project includes addition of microprocessor relays to the existing system, adds certain auxiliary protective equipment, and modifies the design of the existing protection system to upgrade function.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	377	175	224	119	114	428	1	0	1,438
<b>Project Total:</b>	377	175	224	119	114	428	1	0	1,438
<b>Fund Appropriations/Allocations</b>									
City Light Fund	377	175	224	119	114	428	1	0	1,438
<b>Appropriations Total*</b>	377	175	224	119	114	428	1	0	1,438
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Small Overhead and Underground Services**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 8367      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides small size electric power service connections from Seattle City Light's distribution system to the customer's meter for power requirements of less than 50 KVA and 26 kV radial service. This project also responds to the customer's cost, schedule and design interests. Most of this related work is billable to the customer. This project is a continuation of projects 8120, North Services - Overhead and Underground, and 8121, South Services - Overhead and Underground, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	55,417	4,921	5,031	5,293	5,429	5,556	5,688	5,778	93,113
<b>Project Total:</b>	55,417	4,921	5,031	5,293	5,429	5,556	5,688	5,778	93,113
<b>Fund Appropriations/Allocations</b>									
City Light Fund	55,417	4,921	5,031	5,293	5,429	5,556	5,688	5,778	93,113
<b>Appropriations Total*</b>	55,417	4,921	5,031	5,293	5,429	5,556	5,688	5,778	93,113
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Sound Transit Light Rail - City Light**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 1998  
**Project ID:** 8204      **End Date:** 4th Quarter 2012

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project relocates City Light transmission and distribution facilities, and provides service connections and capacity to the Sound Transit Link Light Rail project. This requires continual coordination, design and construction work by engineers and crews, respectively. Active design and construction is ongoing in a 14-mile corridor from downtown Seattle to 154th Street in Tukwila. Planning and design for the north Link area also are anticipated for 2006 to 2008.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	35,881	15,926	4,389	3,396	2,755	1,993	1,806	0	66,146
<b>Project Total:</b>	35,881	15,926	4,389	3,396	2,755	1,993	1,806	0	66,146
<b>Fund Appropriations/Allocations</b>									
City Light Fund	35,881	15,926	4,389	3,396	2,755	1,993	1,806	0	66,146
<b>Appropriations Total*</b>	35,881	15,926	4,389	3,396	2,755	1,993	1,806	0	66,146
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**South 26 kV Conversion**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1993  
**Project ID:** 8125      **End Date:** 1st Quarter 2007

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The South 26 kV Conversion project replaces all old 4 kV electrical equipment remaining in the electrical distribution system with new, efficient and reliable 26 kV distribution equipment. Operations and maintenance costs are not expected to change as a result of this project. The work in this project was continued after 2006 as projects 8358, Overhead 26kV Conversion, and 8362, Underground 26kV Conversion.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	27,198	0	0	0	0	0	0	0	27,198
<b>Project Total:</b>	27,198	0	0	0	0	0	0	0	27,198
<b>Fund Appropriations/Allocations</b>									
City Light Fund	27,198	0	0	0	0	0	0	0	27,198
<b>Appropriations Total*</b>	27,198	0	0	0	0	0	0	0	27,198
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**South Arterial Streetlights Major Maintenance**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2000  
**Project ID:** 8210      **End Date:** 4th Quarter 2006

**Location:** Citywide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides necessary capital improvements and replacements to the City of Seattle's arterial streetlights in the southern part of the service area. The City transferred ownership of 18,600 arterial streetlights to City Light at the end of 1999. City Light is responsible for maintaining these lights. Of those 18,600 streetlights, 5,000-6,000 lights are on poles installed exclusively for streetlighting. Many of these are fed by underground conductors. Projects include streetlight pole and foundation work, installation of streetlights, and underground infrastructure replacement. Work is performed under the direction of the Seattle Department of Transportation (SDOT). The work in this project was continued after 2006 as project 8378, Streetlights: Arterial, Residential and Floodlights.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	572	0	0	0	0	0	0	0	572
<b>Project Total:</b>	572	0	0	0	0	0	0	0	572
<b>Fund Appropriations/Allocations</b>									
City Light Fund	572	0	0	0	0	0	0	0	572
<b>Appropriations Total*</b>	572	0	0	0	0	0	0	0	572
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**South Capacity Additions**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 1993  
**Project ID:** 8123      **End Date:** 2nd Quarter 2007

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The South Capacity Additions project provides electrical lines from substations to customers' property lines so that City Light has sufficient capacity to serve its customers and maintain reliability. This project builds new and replaces old line segments, replaces rotten and damaged poles, and adds or renovates underground facilities in the distribution system in the southern half of the service area. City Light customers pay for some of this work. The project includes labor and materials to remove old components, renovate existing components, and install new components. The project budget includes travel costs to visit generation facilities needing distribution system renovations, and to visit vendors for equipment inspection and operational testing prior to delivery. Operations and maintenance costs are not expected to change as a result of this project. The work in this project was continued after 2006 as projects: 8355, Overhead Customer Driven Capacity Additions; 8356, Overhead System Capacity Additions; 8360, Underground Customer Driven Capacity Additions; and 8361, Underground System Capacity Additions.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	112,522	0	0	0	0	0	0	0	112,522
<b>Project Total:</b>	112,522	0	0	0	0	0	0	0	112,522
<b>Fund Appropriations/Allocations</b>									
City Light Fund	112,522	0	0	0	0	0	0	0	112,522
<b>Appropriations Total*</b>	112,522	0	0	0	0	0	0	0	112,522
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**South Lake Union Streetcar - City Light**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2006  
**Project ID:** 8330      **End Date:** 4th Quarter 2008

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

Seattle City Light will relocate electrical facilities that are to be impacted by the South Lake Union Street Car Route. City Light's work includes relocating electrical infrastructure, construction of new reinforced duct banks crossing under the track alignment, building new vaults to replace the ones where access is compromised, and performing other work as necessary. City Light will work closely with SDOT and its consultants and contractors. Seattle City Light will prepare electrical system designs and civil infrastructure layouts. City Light crews will perform the electrical relocation work, standby support needed for civil construction, and quality assurance inspection for civil construction. This budget does not account for costs incurred by SDOT's civil contractor to install the Seattle City Light vaults and duct bank civil infrastructure.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	943	688	6	0	0	0	0	0	1,637
<b>Project Total:</b>	943	688	6	0	0	0	0	0	1,637
<b>Fund Appropriations/Allocations</b>									
City Light Fund	943	688	6	0	0	0	0	0	1,637
<b>Appropriations Total*</b>	943	688	6	0	0	0	0	0	1,637
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**South New Street and Flood Lighting**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1995  
**Project ID:** 8133      **End Date:** 2nd Quarter 2007

**Location:** Citywide

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

City Light's service area includes cities and areas of unincorporated King County south of the Seattle city limits. Some of these areas have no provision for publicly funded streetlighting. As a result, the customers in these areas that desire additional streetlighting must pay for it as individuals or small neighborhood groups. The South New Street and Flood Lighting project provides City Light customers in the south service area requesting streetlights and floodlights with rental streetlights and floodlights attached to City Light poles. This service is provided to customers pursuant to City Light Rate Ordinance #116619. Operations and maintenance costs are not expected to change as a result of this project. The work in this project was continued after 2006 as project 8378, Streetlights: Arterial, Residential and Floodlights.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	3,052	0	0	0	0	0	0	0	3,052
<b>Project Total:</b>	3,052	0	0	0	0	0	0	0	3,052
<b>Fund Appropriations/Allocations</b>									
City Light Fund	3,052	0	0	0	0	0	0	0	3,052
<b>Appropriations Total*</b>	3,052	0	0	0	0	0	0	0	3,052
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**South Residential Streetlight Improvements**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1995  
**Project ID:** 8135      **End Date:** 2nd Quarter 2007

**Location:** Citywide

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

This project improves public safety by installing additional residential streetlights, initially prioritizing high-crime and low-income locations within the South Service territory and within the Seattle city limits. The additional lights double the light levels to comply with the standard currently recommended by the Illumination Engineering Society and the American National Standards Institute. The annual scope of this program is planned with input from community and neighborhood groups, and with the support of the Seattle Police Department. Operations and maintenance costs are not expected to change as a result of this project. The work in this project was continued after 2006 as project 8378, Streetlights: Arterial, Residential and Floodlights.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	1,739	0	0	0	0	0	0	0	1,739
<b>Project Total:</b>	1,739	0	0	0	0	0	0	0	1,739
<b>Fund Appropriations/Allocations</b>									
City Light Fund	1,739	0	0	0	0	0	0	0	1,739
<b>Appropriations Total*</b>	1,739	0	0	0	0	0	0	0	1,739
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Special Work Equipment - Generation Plant**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 1979  
**Project ID:** 6102      **End Date:** 4th Quarter 2013

**Location:** Outside the City of Seattle

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Special Work Equipment - Generation Plant project funds the purchase of special work equipment, machinery, and tools to be used for the activities or operations of the Generation Branch, which include all the Utility's generating sites. Purchases are based on a five-year plan, updated for technological improvements.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	8,233	898	538	480	494	508	528	536	12,215
<b>Project Total:</b>	8,233	898	538	480	494	508	528	536	12,215
<b>Fund Appropriations/Allocations</b>									
City Light Fund	8,233	898	538	480	494	508	528	536	12,215
<b>Appropriations Total*</b>	8,233	898	538	480	494	508	528	536	12,215
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Special Work Equipment - Other Plant**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1979  
**Project ID:** 9102      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Special Work Equipment - Other Plant project provides new tools and work equipment to replace old or broken tools or work equipment, to ensure field crews and other employees can accomplish their work assignments. This ongoing procurement project provides capitalized tools and work equipment required by all individual City Light units, except those required at the generation plants or substations (which have their own capital projects for special work equipment).

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	19,003	1,139	802	834	855	875	896	910	25,314
<b>Project Total:</b>	19,003	1,139	802	834	855	875	896	910	25,314
<b>Fund Appropriations/Allocations</b>									
City Light Fund	19,003	1,139	802	834	855	875	896	910	25,314
<b>Appropriations Total*</b>	19,003	1,139	802	834	855	875	896	910	25,314
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.

**Special Work Equipment - Shops**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 3rd Quarter 2007  
**Project ID:** 8389      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The purpose of this budget is to replace outdated work equipment, and update technical systems to current standards. When Shops moved to Utility Support Services, their special work equipment budget was not funded.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	441	286	279	285	315	323	328	2,257
<b>Project Total:</b>	0	441	286	279	285	315	323	328	2,257
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	441	286	279	285	315	323	328	2,257
<b>Appropriations Total*</b>	0	441	286	279	285	315	323	328	2,257
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Special Work Equipment - Substation Plant**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1999  
**Project ID:** 7902      **End Date:** 1st Quarter 2007

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Special Work Equipment - Substation Plant project funds the purchase of tools and special work equipment that can be capitalized. New equipment allows crews to accomplish their work in a safe, timely, and efficient manner. This project is ongoing and provides essential tools to accomplish high-voltage electrical and crafts work. The project purchases equipment costing more than \$5,000 per unit.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	1,637	7	0	0	0	0	0	0	1,644
<b>Project Total:</b>	1,637	7	0	0	0	0	0	0	1,644
<b>Fund Appropriations/Allocations</b>									
City Light Fund	1,637	7	0	0	0	0	0	0	1,644
<b>Appropriations Total*</b>	1,637	7	0	0	0	0	0	0	1,644
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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## Streetlights: Arterial, Residential and Floodlights

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 8378      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides streetlighting as requested by various taxing jurisdictions and other customers. This project is a continuation of projects 8133, South New Street and Flood Lighting; 8134, North New Street and Flood Lighting; 8135, South Residential Streetlight Improvements; 8136, North Residential Streetlight Improvements; 8210, South Arterial Streetlights Major Maintenance; 8211, North Arterial Streetlights Major Maintenance; and 8212, Central Arterial Streetlights Major Maintenance, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	13,315	1,853	1,746	1,797	1,844	1,888	1,932	1,963	26,338
<b>Project Total:</b>	13,315	1,853	1,746	1,797	1,844	1,888	1,932	1,963	26,338
<b>Fund Appropriations/Allocations</b>									
City Light Fund	13,315	1,853	1,746	1,797	1,844	1,888	1,932	1,963	26,338
<b>Appropriations Total*</b>	13,315	1,853	1,746	1,797	1,844	1,888	1,932	1,963	26,338
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

## Substation Breaker Replacements and Reliability Additions

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 4th Quarter 2006  
**Project ID:** 7779      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

City Light's inventory of approximately 400 transmission- and distribution-voltage circuit breakers will be reviewed to determine which have the greatest wear, gas or oil leaks, maintenance cost, service stress, and fault-interrupting history. The circuit breakers with the highest failure risk will be replaced. In addition, transformer bank breakers will be replaced at Union Street substation to support load growth.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	2,584	3,564	4,868	3,015	3,060	3,126	3,174	23,391
<b>Project Total:</b>	0	2,584	3,564	4,868	3,015	3,060	3,126	3,174	23,391
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	2,584	3,564	4,868	3,015	3,060	3,126	3,174	23,391
<b>Appropriations Total*</b>	0	2,584	3,564	4,868	3,015	3,060	3,126	3,174	23,391
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Substation Capacity Additions**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2001  
**Project ID:** 7751      **End Date:** 1st Quarter 2014

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Substation Capacity Additions project adds new infrastructure to existing substations and systems. This work differs from project 7752 (Substation Equipment Improvements) in that it adds capacity to existing substations to meet increasing load demands. This project provides safer, more reliable, and more efficient transmission of power from the substations to the distribution system. Subprojects include, but are not limited to, reconfiguring and extending get-aways to the distribution grid, and building ring buses.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	4,711	665	586	1,064	2,127	1,596	1,010	4,549	16,308
<b>Project Total:</b>	4,711	665	586	1,064	2,127	1,596	1,010	4,549	16,308
<b>Fund Appropriations/Allocations</b>									
City Light Fund	4,711	665	586	1,064	2,127	1,596	1,010	4,549	16,308
<b>Appropriations Total*</b>	4,711	665	586	1,064	2,127	1,596	1,010	4,549	16,308
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Substation Comprehensive Improvements**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2000  
**Project ID:** 9161      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

Projects under this program are driven by action items identified in City Light's Comprehensive Facilities Plan, seismic fitness reports, and periodic inspections targeting transmission and distribution buildings. The project includes items necessary to support assigned personnel, such as lunchroom and locker room facilities required by the union contracts, as well as structural and mechanical corrections and enhancements at substation facilities.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	2,442	0	0	170	176	412	189	189	3,578
<b>Project Total:</b>	2,442	0	0	170	176	412	189	189	3,578
<b>Fund Appropriations/Allocations</b>									
City Light Fund	2,442	0	0	170	176	412	189	189	3,578
<b>Appropriations Total*</b>	2,442	0	0	170	176	412	189	189	3,578
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*



**Substation Equipment Improvements**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2001  
**Project ID:** 7752      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Substation Equipment Improvements project adds, replaces, and upgrades substation equipment to maintain or improve system reliability, comply with high voltage and environmental regulations, and ensure safe work sites. This project covers the substation electrical and control equipment. Facility improvement projects are funded through the Substation Plant Improvements project (7750).

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	24,213	4,513	3,626	3,223	1,342	1,410	1,338	1,356	41,021
<b>Project Total:</b>	24,213	4,513	3,626	3,223	1,342	1,410	1,338	1,356	41,021
<b>Fund Appropriations/Allocations</b>									
City Light Fund	24,213	4,513	3,626	3,223	1,342	1,410	1,338	1,356	41,021
<b>Appropriations Total*</b>	24,213	4,513	3,626	3,223	1,342	1,410	1,338	1,356	41,021
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Substation Plant Improvements**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2001  
**Project ID:** 7750      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Substation Plant Improvements project upgrades and retrofits substation buildings, their facilities and systems, and related structures. The project includes environmental improvements, as well as removing and replacing outdated utilities and structures. The project objective is to provide station security, safe working conditions, and related services, such as water, sewer and lighting.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	4,229	1,224	215	1,587	1,645	1,690	1,731	1,777	14,098
<b>Project Total:</b>	4,229	1,224	215	1,587	1,645	1,690	1,731	1,777	14,098
<b>Fund Appropriations/Allocations</b>									
City Light Fund	4,229	1,224	215	1,587	1,645	1,690	1,731	1,777	14,098
<b>Appropriations Total*</b>	4,229	1,224	215	1,587	1,645	1,690	1,731	1,777	14,098
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Tolt - Penstock Crossover Connection**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2007  
**Project ID:** 6360      **End Date:** 1st Quarter 2009

**Location:** South Fork Tolt River

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project connects Seattle Public Utilities' penstock at the Tolt with the City Light penstock for Unit 81 by installing 40 feet of pipe with two valves.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	226	376	2	0	0	0	0	604
<b>Project Total:</b>	0	226	376	2	0	0	0	0	604
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	226	376	2	0	0	0	0	604
<b>Appropriations Total*</b>	0	226	376	2	0	0	0	0	604
<b>O &amp; M Costs (Savings)</b>			2	2	2	2	2	0	10

**Tolt Powerhouse - Power Monitoring Equipment Upgrades**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2009  
**Project ID:** 6323      **End Date:** 3rd Quarter 2009

**Location:** 19901 Cedar Falls Rd SE, North Bend, WA 98045

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project installs a generator totalizer and clock to track running hours and create voltage charts.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	97	0	0	0	0	97
<b>Project Total:</b>	0	0	0	97	0	0	0	0	97
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	97	0	0	0	0	97
<b>Appropriations Total*</b>	0	0	0	97	0	0	0	0	97
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Tolt Powerhouse Turbine Runner Repair/Replacement**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2000  
**Project ID:** 6242      **End Date:** 4th Quarter 2007

**Location:** 19901 Cedar Falls Rd SE

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** 99  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Tolt Turbine Runner Repair/Replacement project provides a new turbine runner at the South Fork Tolt River Powerhouse, replacing the existing damaged runner, to significantly improve power generation, reliability, and safety.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	970	13	0	0	0	0	0	0	983
<b>Project Total:</b>	970	13	0	0	0	0	0	0	983
<b>Fund Appropriations/Allocations</b>									
City Light Fund	970	13	0	0	0	0	0	0	983
<b>Appropriations Total*</b>	970	13	0	0	0	0	0	0	983
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	N/C	0
<b>Spending Plan</b>		0	0	0	0	0	0	0	0

**Transmission & Generation Radio Systems**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1998  
**Project ID:** 9108      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Transmission & Generation Radio Systems project builds or replaces communications infrastructure consisting of fiber optic rings, digital microwave, telephone networks and two-way radio systems. This project provides City Light with command and control capabilities for the operation of the electrical system to ensure the safe, reliable and efficient operation of the system. This project positions SCL to meet the Federal Energy Regulatory Commission's vital communications systems requirements.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	6,687	1,148	1,453	1,433	1,462	1,494	1,529	1,553	16,759
<b>Project Total:</b>	6,687	1,148	1,453	1,433	1,462	1,494	1,529	1,553	16,759
<b>Fund Appropriations/Allocations</b>									
City Light Fund	6,687	1,148	1,453	1,433	1,462	1,494	1,529	1,553	16,759
<b>Appropriations Total*</b>	6,687	1,148	1,453	1,433	1,462	1,494	1,529	1,553	16,759
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Transmission Capacity**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1979  
**Project ID:** 7011      **End Date:** 4th Quarter 2015

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project includes all work required to upgrade, build new lines, relocate lines and provide for system needs as it relates to the transmission system. Transmission Capacity is the available power capacity to meet the load on the transmission system. This capacity is either calculated thermally or based on line clearances.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	7,854	576	433	489	498	423	431	454	11,158
<b>Project Total:</b>	7,854	576	433	489	498	423	431	454	11,158
<b>Fund Appropriations/Allocations</b>									
City Light Fund	7,854	576	433	489	498	423	431	454	11,158
<b>Appropriations Total*</b>	7,854	576	433	489	498	423	431	454	11,158
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Transmission Inter-Agency**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2001  
**Project ID:** 7105      **End Date:** 4th Quarter 2016

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Transmission Inter-Agency project provides demand-driven transmission improvements to City Light's transmission system, including reimbursable transmission work and relocations of transmission equipment to meet customer, other utility, agency, and regulatory requirements.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	394	362	218	182	185	190	194	203	1,928
<b>Project Total:</b>	394	362	218	182	185	190	194	203	1,928
<b>Fund Appropriations/Allocations</b>									
City Light Fund	394	362	218	182	185	190	194	203	1,928
<b>Appropriations Total*</b>	394	362	218	182	185	190	194	203	1,928
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Transmission Reliability**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2001  
**Project ID:** 7104      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project includes all engineering and construction to improve or maintain the reliability of the overhead or underground transmission system. Reliability projects may include line rebuilds, new lines to enhance reliability of a substation, new line configuration to improve operation, and relocations required to maintain the transmission system. Current projects include correcting 115 kV violations, replacing wooden poles, replacing conductors, replacing LED tower lights to conform with Federal Aviation Administration standards, replacing tower structures, performing x-ray assessments, and upgrading cathodic protection of underground transmission conductors.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	4,629	3,159	2,758	6,691	6,904	7,092	4,519	4,676	40,428
<b>Project Total:</b>	4,629	3,159	2,758	6,691	6,904	7,092	4,519	4,676	40,428
<b>Fund Appropriations/Allocations</b>									
City Light Fund	4,629	3,159	2,758	6,691	6,904	7,092	4,519	4,676	40,428
<b>Appropriations Total*</b>	4,629	3,159	2,758	6,691	6,904	7,092	4,519	4,676	40,428
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Transportation Streetlights**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 8377      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project provides for the relocation of SCL-owned streetlights required by transportation projects.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	536	802	490	498	509	520	529	3,884
<b>Project Total:</b>	0	536	802	490	498	509	520	529	3,884
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	536	802	490	498	509	520	529	3,884
<b>Appropriations Total*</b>	0	536	802	490	498	509	520	529	3,884
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Tukwila Undergrounding International Blvd S116th to S139th**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2008  
**Project ID:** 8400      **End Date:** 4th Quarter 2009

**Location:** International Blvd./S 139th St/S 116th St

**Neighborhood Plan:** Not in a Neighborhood Plan

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Not in a Neighborhood District

**Urban Village:** Not in an Urban Village

This project sets up a financial mechanism for the City of Tukwila to fund undergrounding of electrical distribution facilities on Tukwila's International Boulevard from S 116th Street to S 139th Street during the City of Tukwila's road improvement project on that street. Project costs are to be recovered in the long run through service surcharges paid for by City Light customers in that jurisdiction. This financing mechanism is established pursuant to the terms and conditions set forth in the franchise agreement between City Light and the City of Tukwila.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	7,473	76	0	0	0	0	7,549
<b>Project Total:</b>	0	0	7,473	76	0	0	0	0	7,549
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	7,473	76	0	0	0	0	7,549
<b>Appropriations Total*</b>	0	0	7,473	76	0	0	0	0	7,549
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		0	4,321	3,228	0	0	0	0	7,549

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Underground 26kV Conversion**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 3rd Quarter 2007  
**Project ID:** 8362      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Underground 26kV Conversion project replaces the 4 kV electrical equipment remaining in the electrical distribution system with new, efficient and reliable 26 kV distribution equipment. This project increases capacity to deliver power to City Light customers, rebuilds and maintains the backbone of the system, saves energy by reducing transformer and line losses, improves quality and reliability of service to customers, and releases unit substation properties for better neighborhood uses. Operations and maintenance costs are not expected to change as a result of this project. The Capitol Hill Underground Ordinance area does not have capacity at 4kV to serve the load growth in the area, thus requiring City Light to install vaults, ducts and underground at 26kV. This project is a continuation of projects 8124, North 26 kV Conversion, and 8125, South 26 kV Conversion, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	68,681	1,944	2,183	2,107	2,476	2,202	2,249	2,284	84,126
<b>Project Total:</b>	68,681	1,944	2,183	2,107	2,476	2,202	2,249	2,284	84,126
<b>Fund Appropriations/Allocations</b>									
City Light Fund	68,681	1,944	2,183	2,107	2,476	2,202	2,249	2,284	84,126
<b>Appropriations Total*</b>	68,681	1,944	2,183	2,107	2,476	2,202	2,249	2,284	84,126
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		918	3,209	2,107	2,476	2,202	2,249	2,284	15,445

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Underground Customer Driven Capacity Additions**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 8360      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Underground Capacity Additions project provides electrical lines from substations to customers' property lines so that City Light has sufficient capacity to serve its customers and maintain reliability. This project builds new and replaces old underground line segments and may replace rotten and damaged poles in the distribution system that have underground facilities on them. This work is driven by specific customer projects and is for their direct benefit. City Light will be reimbursed by the customers for this work. Operations and maintenance costs are not expected to change as a result of this project. This project is a continuation of projects 8122, North Capacity Additions, and 8123, South Capacity Additions, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	64,411	4,338	4,812	4,018	4,107	4,200	4,299	4,367	94,552
<b>Project Total:</b>	64,411	4,338	4,812	4,018	4,107	4,200	4,299	4,367	94,552
<b>Fund Appropriations/Allocations</b>									
City Light Fund	64,411	4,338	4,812	4,018	4,107	4,200	4,299	4,367	94,552
<b>Appropriations Total*</b>	64,411	4,338	4,812	4,018	4,107	4,200	4,299	4,367	94,552
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Underground Equipment Replacements**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2009  
**Project ID:** 8353      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project replaces and improves old underground electrical system equipment that is failing or approaching the end of its useful life. Operations and maintenance costs are not expected to change as a result of this project.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	903	574	585	598	8,418	11,078
<b>Project Total:</b>	0	0	0	903	574	585	598	8,418	11,078
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	903	574	585	598	8,418	11,078
<b>Appropriations Total*</b>	0	0	0	903	574	585	598	8,418	11,078
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Underground Outage Replacements**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2007  
**Project ID:** 8352      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

This project supports the capitalized portion of work resulting from unplanned, non-emergency, underground outages to ensure that customers' electric power is restored as quickly as possible. These outages result from events, such as storms, accidents, and equipment failures. Replacement includes permanent storm repairs, and construction of new infrastructure to bypass failing equipment. Cable and transformer replacements that are required to restore power are among the elements capitalized during such repairs. The project budget includes travel, meals, and other costs for visits to generation facilities to make needed repairs. Operation and maintenance costs are not expected to change as a result of this project. This project is a continuation of projects 8302, North Outage Replacements, and 8303, South Outage Replacements, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	3,109	1,856	218	209	210	213	218	222	6,255
<b>Project Total:</b>	3,109	1,856	218	209	210	213	218	222	6,255
<b>Fund Appropriations/Allocations</b>									
City Light Fund	3,109	1,856	218	209	210	213	218	222	6,255
<b>Appropriations Total*</b>	3,109	1,856	218	209	210	213	218	222	6,255
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*

**Underground System Capacity Additions**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2007  
**Project ID:** 8361      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Underground System Capacity Additions project provides electrical lines from substations to customers' property lines so that City Light has sufficient capacity to serve its customers and maintain reliability. This project builds new and replaces old underground lines and may replace rotten and damaged poles in the distribution system with underground facilities on them. City Light customers pay for some of this work. The project budget includes travel costs to visit generation facilities needing distribution system renovations, and to visit vendors for equipment inspection and operational testing prior to delivery. Operations and maintenance costs are not expected to change as a result of this project. This project is a continuation of projects 8122, North Capacity Additions, and 8123, South Capacity Additions, which ended in 2006.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	42,729	2,213	3,495	2,590	2,645	2,704	2,768	2,811	61,955
<b>Project Total:</b>	42,729	2,213	3,495	2,590	2,645	2,704	2,768	2,811	61,955
<b>Fund Appropriations/Allocations</b>									
City Light Fund	42,729	2,213	3,495	2,590	2,645	2,704	2,768	2,811	61,955
<b>Appropriations Total*</b>	42,729	2,213	3,495	2,590	2,645	2,704	2,768	2,811	61,955
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Union Street Substation Networks**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 1998  
**Project ID:** 8201      **End Date:** 4th Quarter 2013

**Location:** 1312 Western Ave

**Neighborhood Plan:** Commercial Core

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Downtown

**Urban Village:** Commercial Core

The Union Street Substation Networks project provides sufficient and reliable electrical capacity for the growing power needs of City Light customers. It is a programmatic approach for comprehensive management of underground network assets (electrical and in some cases civil) serving customers in the area bounded by Yesler Street, Alaskan Way, Pike Street, 6th Avenue, Union Street, the Freeway, University Street, 3rd Avenue and the Waterfront area from Denny to Yesler. This project routes two feeders per year into new underground feeder getaways at Union Substation avoiding outages and deferring the need date for a new network substation until no further capacity is available from Union Street and the other network substations.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	17,276	474	488	2,373	2,453	2,522	2,586	2,676	30,848
<b>Project Total:</b>	17,276	474	488	2,373	2,453	2,522	2,586	2,676	30,848
<b>Fund Appropriations/Allocations</b>									
City Light Fund	17,276	474	488	2,373	2,453	2,522	2,586	2,676	30,848
<b>Appropriations Total*</b>	17,276	474	488	2,373	2,453	2,522	2,586	2,676	30,848
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**University to North & Canal Load Transfer**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2007  
**Project ID:** 8375      **End Date:** 4th Quarter 2011

**Location:** 409 NE Pacific St

**Neighborhood Plan:** University

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Northeast

**Urban Village:** University Campus

This project transfers 40 Megavoltamperes (MVA) from the University Substation to the Canal and North substations. This involves the construction or upgrade of several miles of mainstem feeder lines, and the installation of switches at various points along those feeders to transfer the load and relieve University Substation.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	1,164	1,228	1,148	1,095	873	0	0	5,508
<b>Project Total:</b>	0	1,164	1,228	1,148	1,095	873	0	0	5,508
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	1,164	1,228	1,148	1,095	873	0	0	5,508
<b>Appropriations Total*</b>	0	1,164	1,228	1,148	1,095	873	0	0	5,508
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Utility Relocation for the Alaskan Way Viaduct and Seawall Project**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** New Facility      **Start Date:** 1st Quarter 2002  
**Project ID:** 8307      **End Date:** 4th Quarter 2016

**Location:** Citywide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Alaskan Way Viaduct is part of State Route 99, which carries 25% of the north-south traffic through downtown Seattle and is a major truck route serving the city's industrial areas. The seawall supports the soils under Alaskan Way and the Viaduct. Both facilities were damaged in the February 28, 2001, Nisqually Earthquake. The Washington State Department of Transportation (WSDOT) and the City of Seattle are co-leads for the project. WSDOT, in conjunction with the Seattle Department of Transportation (SDOT), is conducting a plan and study for demolition and replacement or rebuild of the existing facility. City Light has substantial critical transmission and distribution infrastructure along the approximately four-mile project corridor, all of which must be relocated once or twice during the project. This project designs and constructs these relocations according to the preferred alternative and schedule. Planning for the overall Viaduct and Seawall Replacement project is still underway. A preliminary estimate of costs for 2008 through 2013 is displayed below. These preliminary cost estimates and funding assumptions will be revised as the scope and schedule of the project are further defined. See also the Utility Relocation Due to Alaskan Way Viaduct and Seawall Replacement projects in Seattle Public Utilities' (SPU) Water and Drainage and Wastewater CIPs, and the Alaskan Way Viaduct and Seawall Replacement project in SDOT's CIP.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	1,209	23,565	8,000	83,948	98,709	38,751	38,750	38,209	331,141
<b>Project Total:</b>	1,209	23,565	8,000	83,948	98,709	38,751	38,750	38,209	331,141
<b>Fund Appropriations/Allocations</b>									
City Light Fund	1,209	23,565	8,000	83,948	98,709	38,751	38,750	38,209	331,141
<b>Appropriations Total*</b>	1,209	23,565	8,000	83,948	98,709	38,751	38,750	38,209	331,141
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0
<b>Spending Plan</b>		21,565	5,893	34,388	66,605	64,575	42,854	16,891	272,771

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**Vehicle Replacement**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** New Facility      **Start Date:** 1st Quarter 1979  
**Project ID:** 9101      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Vehicle Replacement project budgets funds to replace and expand, City Light's heavy-duty mobile equipment fleet. It also funds the gradual replacement of light-duty vehicles, including those previously leased from the Fleets & Facilities Department and now owned by City Light, as well as those currently owned by City Light.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	44,098	9,828	7,861	9,273	9,526	9,756	9,988	10,146	110,476
<b>Project Total:</b>	44,098	9,828	7,861	9,273	9,526	9,756	9,988	10,146	110,476
<b>Fund Appropriations/Allocations</b>									
City Light Fund	44,098	9,828	7,861	9,273	9,526	9,756	9,988	10,146	110,476
<b>Appropriations Total*</b>	44,098	9,828	7,861	9,273	9,526	9,756	9,988	10,146	110,476
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

**Viewridge Underground Residential Distribution Rebuild**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2011  
**Project ID:** 8388      **End Date:** 4th Quarter 2016

**Location:** NE 75th & 40th Ave NE/NE 65th & Sand Point Way NE

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Northeast      **Urban Village:** Not in an Urban Village

This project continues to rebuild in seven remaining phases the underground distribution system in Viewridge. The project replaces increasingly failure-prone aging equipment and direct buried cables with an encased duct bank system that improves service reliability, customer satisfaction, economic operating efficiencies and safety. Service reliability improvements are fully realized in 2015 when construction is complete. Service life for the new system is estimated at 40 years. This is a continuation of work from former Project 8302.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	0	281	832	318	1,431
<b>Project Total:</b>	0	0	0	0	0	281	832	318	1,431
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	0	281	832	318	1,431
<b>Appropriations Total*</b>	0	0	0	0	0	281	832	318	1,431
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Warren Street Crossing**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2007  
**Project ID:** 8382      **End Date:** 4th Quarter 2008

**Location:** Nickerson St/N 34th St

**Neighborhood Plan:** Fremont

**Neighborhood Plan Matrix:** N/A

**Neighborhood District:** Lake Union

**Urban Village:** Fremont

This project upgrades existing distribution tie lines to allow additional capacity to be distributed between Canal Substation and Broad St Substation. It extends underutilized feeders from Canal Substation to the Warren St crossing towers at the ship canal in Fremont. The larger conductors require enhancements to the towers' strength. This allows anticipated load growth in Queen Anne, Interbay and Magnolia to be loaded on Canal Substation rather than Broad St Substation. It will also help with the increased loading in the South Lake Union area. The capacity is also needed for off loading feeders for a rebuild of the Seattle Center. The work also installs fiber optic communications lines.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	1,241	52	0	0	0	0	0	1,293
<b>Project Total:</b>	0	1,241	52	0	0	0	0	0	1,293
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	1,241	52	0	0	0	0	0	1,293
<b>Appropriations Total*</b>	0	1,241	52	0	0	0	0	0	1,293
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Windermere Underground Residential Distribution Rebuild**

**BCL/Program Name:** Customer Services & Energy Delivery - CIP      **BCL/Program Code:** SCL350  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 2011  
**Project ID:** 8387      **End Date:** 4th Quarter 2015

**Location:** NE 65th & Sand Point Way/NE 50th & Ambleside Rd.

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Northeast      **Urban Village:** Not in an Urban Village

This project rebuilds in three phases the underground distribution system in Windermere. The project replaces increasingly failure-prone aging equipment and direct buried cables with an encased duct bank system that improves service reliability, customer satisfaction, economic operating efficiencies, and safety. Service reliability improvements begin in 2011 and are fully realized in 2015 when construction is complete. Service life for the new system is estimated at 40 years. This is a continuation of work from former Project 8302

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	0	0	0	0	0	98	194	444	736
<b>Project Total:</b>	0	0	0	0	0	98	194	444	736
<b>Fund Appropriations/Allocations</b>									
City Light Fund	0	0	0	0	0	98	194	444	736
<b>Appropriations Total*</b>	0	0	0	0	0	98	194	444	736
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

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**Workplace and Process Improvement**

**BCL/Program Name:** Power Supply and Environmental Affairs - CIP      **BCL/Program Code:** SCL250  
**Project Type:** Rehabilitation or Restoration      **Start Date:** 1st Quarter 1999  
**Project ID:** 9159      **End Date:** 4th Quarter 2013

**Location:** Systemwide

**Neighborhood Plan:** Not in a Neighborhood Plan      **Neighborhood Plan Matrix:** N/A  
**Neighborhood District:** Not in a Neighborhood District      **Urban Village:** Not in an Urban Village

The Workplace and Process Improvement project provides funds for alterations that preserve workplace efficiency. This project focuses on adapting interior building elements to support business processes, and procedures of occupant work groups. Flooring replacements, interior remodeling, computer network cabling upgrades, uninterruptible power systems and computer flooring are examples of work that might be undertaken by this project.

	LTD	2007	2008	2009	2010	2011	2012	2013	Total
<b>Revenue Sources</b>									
City Light Fund Revenues	400	271	254	255	805	2,068	1,846	2,452	8,351
<b>Project Total:</b>	400	271	254	255	805	2,068	1,846	2,452	8,351
<b>Fund Appropriations/Allocations</b>									
City Light Fund	400	271	254	255	805	2,068	1,846	2,452	8,351
<b>Appropriations Total*</b>	400	271	254	255	805	2,068	1,846	2,452	8,351
<b>O &amp; M Costs (Savings)</b>			0	0	0	0	0	0	0

*\*This detail is for information only. Funds are appropriated in the budget at the Budget Control Level. Amounts in thousands of dollars.*