



**CASE STUDY  
LED TECHNOLOGY**

## THE UNDERGROUND TOUR

**REBATES  
AVAILABLE  
(206) 684-3800  
CALL TODAY**

Popular sightseeing attraction saves more than \$2,600, while encouraging visitors to spend at the gift shop.

For decades, Bill Speidel's Underground Tour had relied on incandescent lamps. The outdated technology not only increased energy costs, it dimmed the overall experience for visitors. The use of incandescent lamps also raised the ambient temperatures in the gift shop and business office, forcing the air conditioning system to work harder.

Business Manager Patrick Witt worked with independent lighting contractor LYT-FX to take advantage of advanced LED technology. The Underground Tour also took advantage of a rebate from Seattle City Light, which helped pay for 75% of the project's cost.



“Seattle City Light offers an amazing program with amazing savings. It's a real no brainer for any business.”

**PATRICK WITT**  
Business Manager  
Bill Speidel's Underground Tour

### ABOUT THE UNDERGROUND TOUR

- Located in Pioneer Square
- Opened to the public in 1965
- Tours conducted daily
- Three city blocks of underground passageways

### PROJECT SCOPE

- Replace 243 incandescent lamps with LEDs in the passageways, gift shop and business office

### RESULTS

- Estimated energy savings: 37,996 kWh per year
- Estimated cost savings: \$2,637 per year
- More appealing tour for visitors
- Enhanced work environment for staff

BILL SPEIDEL'S UNDERGROUND TOUR UPGRADE	
Total cost	\$12,662
Seattle City Light rebate	\$9,697
Customer cost after rebate	\$2,965
<b>Energy cost savings in the first year*</b>	<b>\$2,637</b>
<b>Simple return on investment</b>	<b>1.1 years</b>

\*Cost savings after completion of both projects, calculated using actual customer rate (including demand charges) of .0888¢ per kWh.

## LED technology

Today's advanced LEDs are fast replacing incandescent, halogen and high-output fluorescent lamps. Though LEDs have been around for more than 40 years, continuous improvements in longevity, light quality, and pricing make this energy-efficient technology a great choice for retrofit projects.

## Rebates for energy conservation

Seattle City Light offers rebates as an incentive to customers to reduce their electricity use. When customers use less electricity, it helps us conserve our hydro resources and avoid the expense of building new power plants or buying electricity on the open market.

## Start saving now

Like the Underground Tour, your business could also benefit from Seattle City Light's rebates for upgrades to energy-saving lighting and equipment. Learn how you can lower your energy costs. Contact an Energy Advisor at (206) 684-3800 or [SCLEnergyAdvisor@seattle.gov](mailto:SCLEnergyAdvisor@seattle.gov) for a free assessment.

## Resources

### SEATTLE PUBLIC UTILITIES RESOURCE VENTURE

Water, recycling and food and yard waste assessment: (206) 343-8505 or [resourcesventure.org](http://resourcesventure.org)

### ELECTRICAL SERVICE CONNECTION INFORMATION

Problems with meters and connections, and new construction questions:

North of Denny—(206) 615-0600

South of Denny—(206) 386-4222

### STREETLIGHTING

Outages and repairs:

(206) 684-7056

TECHNOLOGY COMPARISON	LIFESPAN (APPROXIMATE)	WATTS PER BULB (APPROXIMATE)	ENERGY SAVINGS* (APPROXIMATE)
INCANDESCENT 60W	1,200 hours	60	n/a
LED A LAMP 10W UPGRADE	25,000–50,000 hours	10	80%

\*Annual savings depends on hours of operation/use.

OLD TECHNOLOGY  NEW TECHNOLOGY



Seattle City Light is dedicated to exceeding our customers' expectations in producing and delivering environmentally responsible, safe, low-cost and reliable power.

This program may change without notice and is subject to the availability of funds.

Note: Ask your accountant about additional federal tax incentives that may be available for energy-efficient upgrades.

♻️ Printed on recycled paper made from 30% post-consumer waste fiber and manufactured with 100% renewable electricity.

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