

# SAVE MONEY AND IMPROVE LIGHTING by replacing high-intensity discharge fixtures.

## T8 AND T5 LINEAR FLUORESCENT LIGHTING



Seattle City Light will pay up to 70% of the cost of replacing your HID lighting with T8 or T5 fluorescent lighting.

Replace high-intensity discharge (HID) lighting, such as metal halide or high-pressure sodium fixtures, with T8 or T5 lighting to save energy and improve your work environment.

### T8 and T5 fluorescent lighting uses less energy

HID lighting found in many warehouse, industrial and commercial settings is not as energy efficient as linear fluorescent lighting. For example, a 6-lamp T8 fixture uses only about half the kilowatt-hours (kWh) to generate the same level of light as a typical HID fixture.

### Light comes on instantly

HID lighting can take 10-15 minutes to reach full brightness at the start of operation or after a power outage. Linear fluorescent lighting comes on instantly.

### Improved visibility

T8 and T5 high output (HO) systems typically have a better color-rendering index (CRI) than most HID lighting. The CRI measures the ability of a light source to accurately reproduce the colors of various objects.

### Get a cash rebate to help pay for your upgrade

Seattle City Light business and institutional customers are eligible for cash rebates that will pay up to 70% for converting from HID to T8 or T5 lighting.

## HOW TO GET YOUR SEATTLE CITY LIGHT REBATE

- 1 Call (206) 684-3800.
- 2 Work with your City Light energy analyst to evaluate your lighting project and estimate your energy savings.
- 3 Secure authorization from City Light prior to your contractor starting work.
- 4 Proceed with the installation and contact City Light for final verification when work is complete.

## TECHNOLOGY QUALITY AND COST COMPARISON

TECHNOLOGY	WATTS	COLOR RENDERING INDEX (CRI)	ESTIMATED ANNUAL ENERGY USE (kWh)	ESTIMATED ANNUAL ENERGY COST
Metal halide 400-watt fixture	460	65–93	1,325	\$85
High-pressure sodium 400-watt fixture	460	20–25	1,325	\$85
Mercury vapor 400-watt fixture	460	15–50	1,325	\$85
T8 6-lamp fixture plus electronic ballast	222	85	639	\$41
T5 HO 4-lamp fixture plus electronic ballast	234	85	674	\$43

Estimated annual energy cost is based on small-business rate of 6.38¢ per kWh. Estimated annual energy use assumes lights are on 8 hours per day, 360 days per year. Savings will vary depending on your operating hours and electricity rate. The Color Rendering Index (CRI) measures the ability of a light source to accurately reproduce the colors of various objects. Sunlight, for reference has a CRI of 100. CRI ranges taken from [www.BuildingGreen.com](http://www.BuildingGreen.com).

### Estimated annual energy savings for replacing a single HID fixture:

**\$44 when you upgrade to a T8 fixture**

**\$42 when you upgrade to a T5 HO fixture**

Because Seattle City Light rebates pay up to 70% of project cost, many customers pay back their initial upgrade investment in less than two years. Savings will vary depending on the lighting and ballasts currently in use and on the lamp, ballast, and fixture combination you install.



Lynn Krinsky, President of Stella Color

### Improve your lighting and save money like Stella Color

See how one Seattle City Light customer — Stella Color — improved their lighting and saved money when they replaced high-pressure sodium fixtures with T8 lighting. See the whole story at [www.seattlechannel.org](http://www.seattlechannel.org). Just type “Stella Color” in the Video Search box.

### Conservation is our most cost-effective energy resource

Seattle City Light offers incentives such as technical assistance and rebates to business and institutional customers to promote adoption of energy-saving technologies. We offer rebates because conservation is a more cost-effective way to meet our future electricity needs.

### Reduce your carbon footprint

Updating your lighting does more than save you money. Replacing a single 400-watt HID fixture with an energy efficient T8 6-lamp fixture would keep 907 pounds of CO<sub>2</sub> — a greenhouse gas — out of the atmosphere annually.

The City of Seattle is a national leader in protecting the environment. Seattle residents and businesses are joining in efforts to help reduce the negative impacts of climate change.



Seattle City Light is a publicly owned utility dedicated to exceeding our customers' expectations in producing and delivering low-cost, reliable power in an environmentally responsible and safe way. We are committed to delivering the best customer service experience of any utility in the nation.

Fact sheet data is based on estimated energy use and expense; actual savings will vary. Seattle City Light funding for adoption of conservation technologies is based on the projected first-year kWh savings multiplied by the incentive amount for the technology being adopted and is capped at 70% of the cost of the energy conservation measure installation project. Seattle City Light management must approve the project prior to purchase or installation of equipment of materials. This program may change without notice and is subject to the availability of funds.

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