

ACHIEVE MAJOR ELECTRICITY SAVINGS with central lighting control systems.

CENTRAL LIGHTING CONTROL SYSTEMS



**Seattle City Light
will pay up to 70%
of the cost to install a
building-wide central
lighting control
system.**

Significantly reduce electricity use and costs with a building-wide central lighting control system.

Lower your electricity bill

Combining wall- and ceiling-mounted occupancy sensors with a central lighting control system ensures that lights get turned off in unoccupied building areas — reducing the lighting portion of your electricity bill. Lighting is the largest component of the electricity bill for most office buildings, representing about 40% of your total bill.

Save even more with “daylight harvesting”

During the day, spaces around the building perimeter with windows need less lighting than interior spaces. Choosing a system that has the ability to sense the amount of daylight and adjust lighting accordingly will save even more on your electricity bill.

Reduce maintenance costs

Increase the life of lamps and ballasts by automatically turning off or dimming lights in building areas that are unoccupied, or that have sufficient daylight. You can also reduce costs for labor and materials since lights will need to be changed less frequently.

HOW TO GET YOUR SEATTLE CITY LIGHT REBATE

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

ESTIMATED SAVINGS with a central lighting control system

ANNUAL ENERGY USE WITHOUT CENTRAL LIGHTING CONTROLS	ANNUAL ENERGY USE WITH CENTRAL LIGHTING CONTROLS	ANNUAL kWh SAVINGS	ANNUAL COST SAVINGS
176,800 kWh	141,440 kWh	35,360 kWh	\$2,256

Chart assumes building has 1,000 three-lamp T8 fixtures currently operating 2,600 hours per year, at a cost of 6.38 cents per kWh. If building is currently using older T12 fixtures, savings will be even greater.

Many choices available

Because central lighting control systems must be individually designed for each building, you should work with an electrical engineer or lighting designer to determine the best approach. Possibilities include:

- **Simple systems** with on/off controls that are programmed to turn lights on and off at a specified time of day.
- **PC-controlled systems** that you can program more flexibly. For example, you might want to treat areas such as building lobbies or conference rooms differently from offices.
- **Systems that can dim lights** as well as turn them on and off. This approach can lower lighting levels when sufficient daylight is present. It can also prevent lights from being turned off completely when a common space (such as a stairwell or elevator lobby) is unoccupied.

Most systems include both wall-mounted and ceiling-mounted occupancy sensors. Ceiling sensors work best when a wall-mounted unit would not have a clear line of sight throughout an area—such as in an L-shaped space or a room with tall partition walls. Typically, one occupancy sensor for every 200 to 300 square feet is needed, although other factors such as room design and partition heights may require more.

Get a cash rebate from Seattle City Light

As part of our energy conservation program, Seattle City Light will pay business customers to install building-wide central lighting control systems. The rebate is based on projected kilowatt-hour (kWh) savings during the first year and will pay up to 70% of the total installation costs.

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 the adoption of electricity-saving technologies. We offer rebates because conservation is the most cost-effective way to meet our future electricity needs.

Reduce your carbon footprint

Using occupancy sensors does more than save you money. Adding a building-wide lighting control system to a structure illuminated with 1,000 three-lamp T8 fixtures could save 35,360 kWh annually and keep approximately 46,773 pounds of CO₂ — a greenhouse gas — out of the atmosphere every year.

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. To qualify for the rebate, you must obtain project approval from Seattle City Light management prior to purchase or installation of equipment or materials. This program may change without notice and is subject to the availability of funds.

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