

# SAVE ELECTRICITY AND MONEY with single-room occupancy sensors.

## SINGLE-ROOM OCCUPANCY SENSORS



Seattle City Light will pay up to 70% of the installation cost for occupancy sensors installed in existing buildings.

Reduce electricity costs by 10 to 15% with wall- or ceiling-mounted occupancy sensors.

### Reduce energy and maintenance costs

Lighting is the largest component of the electricity bill for most office buildings, representing about 40% of your total bill — yet people often forget to turn lights off when they leave a room. Occupancy sensors that turn lights off when no one is present can reduce the room's energy consumption by as much as 15%.

Ensuring that lights in rooms such as offices, bathrooms, conference rooms and storage rooms are turned off when the room is unoccupied will increase the life of lamps and ballasts. It will also reduce costs for labor and materials, since lights will need to be changed less frequently.

### Get a cash rebate from Seattle City Light

As part of our energy conservation program, Seattle City Light will pay business customers to retrofit rooms with occupancy sensors. Rebates are based on projected kilowatt-hour (kWh) savings during the first year of the retrofit and pay up to 70% of the total project costs. With this rebate, businesses typically recoup their installation costs in less than two years.

### New construction rebates

For new construction, businesses that add occupancy sensors in areas where they are not required by code will earn a per-unit rebate of \$30 for each wall-mounted sensor and \$90 for each ceiling-mounted sensor.

## 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 for installing single-room occupancy sensors

	ANNUAL ELECTRICITY USE		ANNUAL kWh SAVINGS	ANNUAL COST SAVINGS
	WITHOUT OCCUPANCY SENSORS	WITH OCCUPANCY SENSORS		
Small office	354 kWh	248 kWh	106 kWh	\$6.76
Conference room	571 kWh	400 kWh	171 kWh	\$10.91
Large open office area	3536 kWh	2475 kWh	1061 kWh	\$67.69

### ASSUMPTIONS:

1. For small office, two 3-lamp T8 fixtures currently operating 2,600 hours per year; addition of one wall-mounted occupancy sensor.
2. For conference room, four 3-lamp T8 fixtures, currently operating 2,100 hours per year; addition of one wall-mounted occupancy sensor.
3. For large open office area, 20 3-lamp T8 fixtures, currently operating 2,600 hours per year; addition of one or more ceiling-mounted occupancy sensors (exact number and location will depend on room layout and dimensions).
4. In all cases, kWh savings are estimated at 30% of current usage, and cost savings are based on a rate of 6.38 cents per kWh.

**NOTE:** Not all types of fluorescent fixtures will work with occupancy sensors. Wall-mounted sensors work well in smaller areas where there is no blockage of the line of sight between the sensor and room occupants. In larger areas or those with taller partitions, a ceiling-mounted sensor is the best choice. You will also need to select an occupancy sensor that has a manual on/off switch. Call Seattle City Light to determine if occupancy sensors will work with your lighting and to learn which types of sensors are best for your layout.

### Norton Building saved money by installing occupancy sensors in elevator lobbies

The Norton Building in downtown Seattle provides an example of the savings that occupancy sensors can generate. On nine of the building's 21 floors, elevator lobby lights were previously on 24x7. By installing one ceiling-mounted occupancy sensor in each of the nine elevator lobbies, the building owners are saving more than \$1,000 per year. With a total installation cost of around \$2,200 for the nine occupancy sensors, \$1,000 in annual electricity savings and a \$1,800 rebate from Seattle City Light, the building's owners will recoup their installation costs in about six months. "It's been a very low-cost investment for us — and one that will generate long-term savings," said John Maltsberger, Building Engineer.



Photo by Joe Mabel

### 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

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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