

# TEAM UP FOR ENERGY SAVINGS Lighting

Saving the environment and saving money can be as easy as flipping a switch. That means you're on the front line for energy-saving opportunities. Team up with co-workers to spot ways to reduce the energy your lighting system uses – it's good for the environment and good for the bottom line.

#### Shine a spotlight on lighting costs

Check out your facility: Are the lights in each area appropriate for the work performed there? Are more energy-efficient lights available? Inspections can shed light on these and other opportunities to conserve energy and cut costs. There are three main areas to consider:

#### **1. Housekeeping**

- > Turn off lights left on in unoccupied areas. It sounds simple, but it takes teamwork to make sure unneeded lights are turned off.
- Switching off unneeded lights scores big savings in electricity. It also cuts your air-conditioning bill and the refrigeration load in coolers and freezers.
- > Turn off:
  - > Incandescent lights that aren't needed
  - Fluorescent lights when they'll be off for at least 15 minutes
  - > High-intensity discharge (HID) lights when they'll be off for at least an hour
- Consider installing timers, photocells and occupancy sensors. Or integrate the lighting system into an energy management control system.
- > Dust and grease on lighting fixtures can reduce the light that reaches the target area by as much as 30 percent.
- Clean fixtures at least every two years. Clean them more often in greasy, dusty or smoky places and when the heat they generate is part of a heating, ventilating and air-conditioning (HVAC) system.

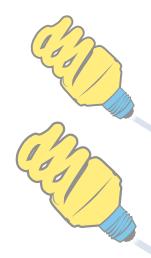


### 2. Low-cost opportunities

- > Where possible, remove lights. Make sure unused light ballasts are also disconnected they use electricity even when the bulb is removed.
- Install dimmers. For example, plant production areas can be fully lit during production periods and dimmed when cleaning and security staff are on duty.
- Reducing general lighting while increasing task or workstation lighting often boosts the occupants' comfort while cutting electricity costs.

#### **3. Retrofits**

> Blow the whistle on energy-wasting lights. Retrofitting usually pays back within a reasonable amount of time because it cuts electricity costs. And new equipment automatically complies with the *Energy Efficiency Act* and *Energy Efficiency Regulations*, which set minimum requirements for lamp efficacy and lighting quality.





#### **Evaluate your lighting system**

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	unnecessary lights turned off?	🖵 Yes	С
□ Yes	Recheck periodically.		hi
🖵 No	Train staff to turn lights off.	🖵 No	No
	Install timers or sensors to turn lights off automatically.	Done by	:_
	Consider a lighting management system for	Date:	
	your facility.	6. Are la	arg
Done b	ıy:	🖵 Yes	С
			m
2 Δre	light fixtures clean?		No
	Recheck periodically.	Done by	:_
		Date:	
	Make a cleaning schedule.	7. Do al	l lig
Done h	y:	Energ	;y
		🖵 Yes	No
		🖵 No	Сс
3. Are	light levels appropriate for each area?	Done by	:_
❑ Yes	Recheck periodically (if possible, use a light meter).	Date:	
□ No	Remove lamps or retrofit with high-efficiency, low-wattage lamps.		
	If light levels are too low, consider task lighting.		
Done b	y:		
Date: _			
4. Are	there incandescent lights?		
🖵 Yes	Consider replacing them with high-efficiency lamps.		
	Consult a lighting expert.		
🖵 No	No action required.		
Done b	y:		
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## 5. Are large spaces with high ceilings lit with inefficient fluorescent lights?

□ Yes Consider replacing fluorescents with high-efficiency fixtures.

□ No No action required.

Done by: \_\_\_\_\_

Date: \_\_\_\_\_

#### 6. Are large areas lit with mercury vapour lights?

- □ Yes Consider replacing mercury vapour lights with more energy-efficient ones.
- □ No No action required.

Done by: \_\_\_\_\_

oate: \_\_\_\_\_

#### 7. Do all light fixtures meet the requirements of the *Energy Efficiency Act*?

- → Yes No action required.
- □ No Consult a lighting expert.



Aussi disponible en français sous le titre : ENSEMBLE, ÉCONOMISONS L'ÉNERGIE! L'éclairage

For more information: oee.nrcan.gc.ca/industrial