



Spring into Savings

Stop wasting and start saving



The bone chilling days and nights are coming to an end. Using the heat on full blast is no longer necessary. Much to our relief, we are beginning to see lower heating bills. Water bills will soon rise from washing cars, watering the vegetable garden, our grass and our beautiful spring flower garden. The money saved on heat pours into water. One part of the bill is forever un-



changing is what we spend on lighting. Saving on heat doesn't help much when its dispersed in our garden as water. Savings don't occur unless there is extra money in our pockets for us. On average 40% of electric bills are from lighting. Through making adjustments to your lighting controls at home and at work, you could be saving 20-60% more this spring.



Lighting Control Devices

Control your lighting, control your bills



Dimming Ballasts

Even though they have been around since 1961, dimming ballasts are growing in popularity. Whether you are using incandescent bulbs, LED, CFL's or even halogen, keeping lights dimmed will save you on your energy costs. For example, if you dim a halogen light 35%, you will have 28% energy savings. The more you use the dimmer, the shorter your payback period will be. A dimming ballast in conjunction with any following will put more money back in your pocket.



Occupancy Sensors

Occupancy sensors provide lighting based on the presence of people in the room. These sensors can pick up the slightest movement to ensure the proper functioning of lighting. On average, their savings are about 20%, but they can save you up to 60% on energy costs depending on space, time and delay settings. Infrared sensors, microphonics and high frequency signal technology ensure energy savings.



Daylight Harvesting/Photosensors

Photosensors measure the natural light entering a room and adjust the lights accordingly. The sensors can be placed inside or outside, depending on if you are using an open-loop or closed-loop system. Both, however, can be used to ensure maximum savings and proper levels of lighting. An electrician should be on site during installation to ensure the devices are in the proper location. If devices are put in certain areas and only read a certain area, they will not function and save to their full capacity.



Which Should You Choose?

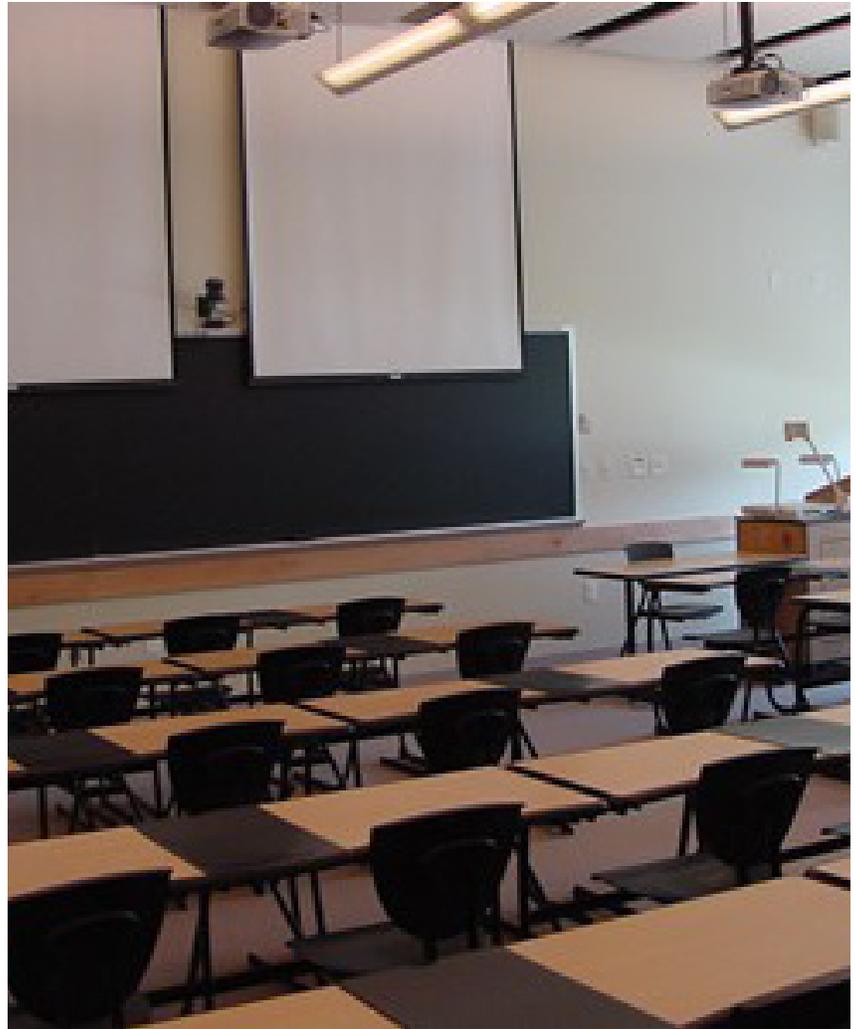
Contact your electrician for advice on your future lighting system. All three of the above may work for your company to ensure maximum savings, or one may be sufficient for your company. In the long run one or all of the above systems will not only save you money, but increase your productivity and worker satisfaction levels.

Photosensors: Open-loop vs. Closed loop Systems. Compare, contrast and make the choice.

Photosensors are great tools to help you save on your lighting expenses. There are two main systems to choose from, however. Closed-loop systems are typically found in task areas, Thus, avoiding a direct view of natural lighting outside, and adjusting the light specifically to the light needed task areas. A combination of daylight and electrical lighting is picked up by the sensor.

Open-loop systems measure only natural light. Unlike the closed-loop, this system does not respond to the electric light that it controls.

A dual-loop system combines the closed and open-loop systems to ensure greater accuracy in dimming and lighting control. However, a dual system is not always needed. Classrooms, offices, gyms and various primary task areas can run accurately off of the closed-loop, alone.



Sharing Your Mission



Saving energy has been an issue all over the world. Researchers have spent billions of dollars coming up with new technologies and making current technologies more energy efficient. Your goal as a company is to make a profit and ensure that your company has a future. The future is tomorrow and tomorrow is quickly approaching. Start saving today on your energy costs.

Governments around the world are developing new laws and regulations for businesses and their energy consumption. Con

sidering that 40% of a businesses energy is consumed in lighting, Commonwealth Electrical Service would like to keep you up-to-date on what is happening, what technologies are out there, how to save on your electrical costs and to share your mission of becoming more energy efficient. Technologies used tomorrow are being replaced with the research of today. By learning and keeping up-to-date, you can make the changes gradually, as we do.

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