

"Current" Events



Lewis Electric Update



News for Lewis Electric Customers Vol.1 No. 5 / February, 1998

More Ways to save Money ! *Cost Saving Lighting Hints*

The use of lighting control devices, such as photocells and automatic timers can save you lots of money in the long haul. The photocell is a very neat little item. The device senses the ambient light level and turns lights on/off if the level is below/above a preset light level, automatically. The cost of an average photocell is \$15.00, plus the installation cost, pretty cheap for such a smart little device. A photocell will control all of your exterior Lighting and in some cases your interior lighting needs for years to come. Just think about this - no more remembering on the way to work with no spare time: did I remember to turn off the exterior lights when I left the house this morning? If your lighting was controlled automatically - **NO WORRIES !!**.

Automatic timers are a little more expensive but also give you hassle free control over your lighting and many other items. Pumps cycle on/off precisely on schedule. Water heaters controlled by automatic timers save energy used to maintain heated water when there is no use for it. The automatic timer can also run your sprinkler system most efficiently and run your attic fan at the proper time.

PAYBACK EXAMPLE:

Lamp Size	Energy (kWh/PY) with/ Photocell	Energy (kWh/PY) without/ Photocell	Electric Cost Dollars Saved
60	263	526	26.28/6
100	438	876	43.80/4

Another great cost cutting device is the fluorescent light bulb (fixture). The energy efficient Fluorescent light operates at a much cooler temperature and produces four times more light than incandescent bulbs of the same wattage and last eight to ten times longer, depending on how many times they are turned on and off.

Fluorescent bulbs provide efficient lighting that has many practical uses in your home. By using fluorescent energy efficient lighting, you can save money and energy with less impact on the environment.

What's the difference between fluorescent bulbs and incandescent bulbs ? Incandescent bulbs heat a filament by electric resistance - the same principle that warms a toaster or an iron. Fluorescent lamps burn "Cool", converting less energy to heat and more light produced. Fluorescent bulbs come in various shapes and sizes, bent tubes, cylinders, circular tubes and globes to fit all your lighting needs.

Fluorescent bulbs are more expensive to purchase than standard incandescent

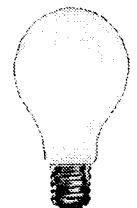
Inside

1 More ways to save you money in the 90's.

COST SAVING LIGHTING HINTS

2 Did You Know how your Electric Meter Works?

3. On the lighter-side



“ Current Events “

Page 2

- ☑ Fire Alarm Systems
- ☑ Closed Circuit TV
- ☑ Telephone Systems
- ☑ Home Automation
- ☑ Surge Suppression
- ☑ Design and Build
- ☑ UPS Systems
- ☑ Commercial Electric
- ☑ Packing Houses
- ☑ Nurseries and Farms
- ☑ Electric Motors
- ☑ Automatic Gate Openers

bulbs. However, the hidden costs of choosing normal incandescent light bulbs - long term electricity costs and the costs of repeated replacements of these relatively short lived lights make standard incandescent, in fact, more expensive. For example, replacing a 60 watt incandescent reading lamp with a 22 watt compact circular fluorescent would save you about \$38.00 over the life of the bulb. And because fluorescent bulbs are more expensive than most incandescent bulbs manufacturers usually guarantee them, which becomes an added benefit.

SLM

Do you know how your Electric Meter works ?

Question:

I know the electric meter measures how much electricity is used, but how does it do this?

Answer:

You can think of a meter as a box through which the electricity flows and in the process leaves a record of how much energy (how much power) was delivered. The meter actually uses two values which it senses, electrical pressure measured in volts and electrical current measured in amperes (amps). The meter takes the product of these two values multiplied by the power factor and adds this value up over time. The equation for this is volts times amperes times time equals watthours. Then it divides by one thousand to get kilowatthours.

You can compare a water system with an electric system to help understand the units used in measurements. Pressure which makes the water flow in

a pipe is measured in pounds per square inch (PSI). Pressure which makes electricity flow in a wire is measured in volts. Rate of flow or current in a water system is measured in gallons per second, while current in an electric system is measured amperes. An ampere is defined as one coulomb per second.

And so this is how your Electric Meter works. !!

On the lighter side:

For centuries electricity has been a challenge to scientists. They have long known it exists, and have discovered how to generate it on a large scale, but find it difficult to explain exactly what electricity is ?

The words Electricity - Electron-Electronic all originate from the Greek word “Elektron”, which means Amber. Amber played a large part of the first conception of electricity. Ancient Greeks discovered that when amber was rubbed against cloth certain objects were drawn to the amber. Though no one knew, they had discovered Static Electricity the forerunner of modern Electricity.

So here is a simple modern day experiment that will teach you a valuable electrical lesson. On a cool, dry day, Scuff your feet along a carpet, then reach your hand into a friend's mouth and touch one of his dental fillings. Did you notice how your friend twitched violently and cried out in pain ?

This teaches us that electricity can be a powerful force, but we must never use it to hurt others, unless we need to learn an important electrical lesson.

HA!,HA!!,HA!!!.