

## What's New in Commercial Lighting?

Times have changed since fluorescent lights were first introduced, and today's fluorescents are of a much higher quality compared to just five years ago. High-Performance T8 (HP T8) lights with electronic ballasts have been available for the past five years and they are superior to old T12 lights in many ways, providing quieter, more efficient lighting. In fact, there are many differences between the systems, which have allowed HP T8 lamps to become the new industry standard.

### Size matters

While all fluorescent tubes, properly called lamps, may look the same T8 from a distance, a close inspection shows that HP T8 lamps are considerably thinner than the old-style T12 lamps. The designation reflects the diameter of the lamp in eighths of an inch. So, a T8 is one inch, while the T12 is one-and-a-half inches. The lamps also require different ballasts, the device inside the fixture that controls the lamps.

### Cost comparison

A typical two lamp T12 fixture uses 82 Watts, while a HP T8 system uses less than 50 Watts. That's a savings of around 40 percent while providing the same amount of light. In addition to better initial efficiency, HP T8 lamps stay brighter over their life, so you can get by with lower wattage systems. To assist with the conversion, PUD No. 1 of Clallam County provides cash rebates for upgrading to more efficient lights. This means you can have better lighting installed today, and the savings on your electric bill can pay back any additional costs of the install in about a year. After that, you'll enjoy a new, better lighting system and reduced power bills.

### Higher quality lighting

In the past, older fluorescent lighting was distracting, because it sometimes had a noticeable "flicker" or "humming

sound." However, today's electronic ballasts operate at a much higher frequency and operate noiselessly. This results in a quiet work environment with a steady light output.

### Other great features

HP T8 lamps have rare earth phosphors providing excellent color quality. HP T8 lamps are available in four different colors. They range from 3000k, which is equivalent to warm white light, to 5000k, which simulates daylight. HP T8 lamps also last up to 30 percent longer, which means you won't need to replace burnt out lamps as often. In addition, HP T8 systems produce less heat than T12 systems, which creates savings on the cost of cooling workspaces.

### Making the switch

Replacing your old T12 system with a HP T8 system will produce better-quality light, while saving energy and lowering your electric bill. Ultimately, quieter, high-efficiency lighting equals higher productivity and happier customers. Where do you start? The process to upgrade is easier than ever, just call the PUD No. 1 of Clallam County at (360) 565-3249 and ask to speak with a Utility Services Advisor. You can also visit us on the web at [www.ClallamPUD.net](http://www.ClallamPUD.net) under the "Conservation" tab.

As seen on PUD-TV:  
[www.clallampud.net/video](http://www.clallampud.net/video)



**PUD Mission: Providing reliable, efficient, safe and low-cost utility services in a financially and environmentally responsible manner.**

### PUD Commissioners

Our Board holds public meetings most Mondays at 1:30 p.m. at our Port Angeles office, 2431 East Highway 101.

Call (360) 565-3231 or (800) 542-7859 for more information.

**Will Purser • Hugh Haffner • Ted Simpson**

General Manager: Doug Nass

### Contact the PUD

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# Preparing for Unforeseen Power Outages (Part 2)

As Fall and Winter arrive so do increased chances of power outages. Are you prepared? This month we continue our look at what you can do to PLAN AHEAD for unforeseen outages (the October edition of HotLine, with more valuable outage preparation information, is available online at [www.clallampud.net](http://www.clallampud.net)).

- **Never Use Candles!** Have several flashlights with extra batteries and/or non-electric lamps on-hand and ready for use.
- **Have an emergency plan for relocating those most susceptible to the cold** to a warm and safe place. The PUD does not guarantee uninterrupted service to homes where a serious medical condition exists.
- **Have an emergency plan for checking on those who may need help** during storms and outages – and a back-up plan if phones are out.
- **Keep freezers closed during an outage.** Full freezers can keep food frozen for about two days – one day if less than full.
- **Make a habit of backing up computer files to prevent loss of data.**

*The PUD's outage management system identifies outage sites by the phone number used to report them. If your contact information has changed, and you have not notified us of that change, please do so now. Help us help you! Call 360-452-9771 or 800-452-7859*

**Report Outages to: 360-452-9771 or 800-542-7859**

## Information for People with Disabilities

- Please consider purchasing a back-up generator for use during extended outages for those dependent upon home medical life support.
- Keep a spare, charged battery for motorized scooters or wheelchairs.
- Keep at least a 5 day supply of essential medications on hand!



## Generator Safety

- Only operate your generator **OUTSIDE** in a dry, well-ventilated area!
- **DO NOT** attach a generator to your fuse or breaker panel. Consult your local PUD office for assistance.
- **ALWAYS** follow your generator's operating manual carefully!



## LED Decorative Light Strings

If all decorative light strings sold in America this year were ENERGY STAR® qualified, we would save over 2 billion kilowatt-hours per year — that's enough energy to supply every PUD customer in Clallam County for three years!

### The Many Benefits of ENERGY STAR® LED Decorative Light Strings:

- Typically use 90% - 95% less energy than traditional incandescent strands.
- Can last up to 10 times longer than traditional incandescent strands.
- Are cool to the touch, reducing the risk of fire.
- Do not have moving parts, filaments or glass, so they are much more durable and shock-resistant than other light strings.
- Are available in a variety of colors, shapes and lengths.
- Come with a three-year warranty, meaning fewer light string replacements.
- Are independently tested to meet strict lifetime and electrical requirements.
- Products labeled for outdoor use are subjected to weathering tests.
- Some models deliver features such as dimming or color shifting.

### What is an LED?

Light emitting diodes, or LEDs, are small light sources that are illuminated by the movement of electrons through a semiconductor material. LEDs are exceptionally energy efficient when producing individual colors. For example, the amount of electricity consumed by just one 5-Watt incandescent bulb could power over 50 LEDs.



## Fuel Mix

Your PUD's electricity comes from the following fuel mix:

Biomass:	0.29%
Coal:	4.88%
Hydroelectric:	83.89%
Landfill Gas:	0.01%
Natural Gas:	1.93%
Nuclear:	8.86%
Other:	0.14%
<b>TOTAL:</b>	<b>100.00%</b>

